



# Vivekanand Education Society's Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

## Criteria 1.3 : Curriculum Enrichment

### Department of Computer Engineering

1.3.3 Percentage of students undertaking project work/ field work/ internships (Data for the latest completed academic year) -2022-23

- Number of students undertaking Project Work in their Final Year of Computer =207
- Number of students undertaking Mini Project in First,Second & Third Year Levels in UG Programme = 197+208+210= 615
- Number of Students undertaking Internship =58
- Total No.of Students enrolled in 2022-23 in Computer Engineering = 822

Formula:

$$\frac{\text{Number of students undertaking project work /field work / internships}}{\text{Total number of students}} \times 100$$

- Percentage of Students Undertaking Project Work/Field Work/Internships =  $(615+207)/822 = 100 \%$



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**Dr. (Mrs.) J. M. Nair**

M. Tech., Ph.D. (IIT-B)

Principal


Ref. No.: VESIT/ JMN/ 1325/2023-24

Date: 26/10/2023

## TO WHOM SO IT MAY CONCERN

I, Dr. (Mrs.) Jayalekshmi M Nair, Principal (HOI), Vivekanand Education Society's Institute of Technology, do hereby state that the documents uploaded on NAAC portal are duly signed by Principal (HOI).

The additional documents uploaded on Institute's website (<https://vesit.ves.ac.in/>) are also authentic and does not need any extra validation.

  
**Dr. (Mrs.) Jayalekshmi M Nair**  
Principal  
Vivekanand Education Society's Institute of Technology  
Hashu Advani Memorial Complex,  
Collector's Colony  
Chembur, Mumbai, Maharashtra 400074





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## Criteria 1.3.3 : Curriculum Enrichment

**1.3.3 Percentage of students undertaking project work/ field work/ internships (Data for the latest completed academic year) -2022-23**  
**Department of Computer Engineering**

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# **Vivekanand Education Society's Institute of Technology**

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## **A 1-Sample List of Student Internships 2022-23**



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## Department of Computer Engineering

### Internship details (July 2022 - December 2022 / 2022-23 / Odd Sem)

Sr. No.	Student Name	Class	Company Name	Title of Project	Starting date of internship	End date of internship
1	Simran Lahrani	D12A	The Sparks Foundation	Basic Banking System, Payment Gateway Integration	25/06/2022	31/07/2022
2	Meera Mandar Sawantde sai	D12A	VESIT website	Railway-concession website	15/07/2022	15/03/2024
3	Chaitanya Sondur	D12A	VESIT Renaissance Cell	Even-Tual: An online system for events	01/06/2022	05/07/2022
4	Aashish Ramesh Raheja	D17B	Indian Institute of Technology Palakkad	Case Study on Machine Learning Algorithms for Satellite Image Classification	01/06/2022	15/07/2022
5	Yashodhan Sharma	D7B	AIESEC	Cross Cultural Exchanges	30/01/2022	30/01/2023

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6	Maitryee Choudhary	D17B	Morgan Stanley	Adding a feature to Website	30/05/2022	31/07/2022
7	Nikita Narwani	D12C	TCR Innovation	Employee Management System	10/06/2022	10/08/2022
8	IDNANI NAVIN RAJESH	D7C	TCR INNOVATION	EMPLOYEE MANAGEMENT SYSTEM (EMS)	10/06/2022	10/08/2022
9	Ashwin Kurup	D17A	Jio Platforms Ltd	Web Dev	05/06/2022	05/08/2022

*Deliver*





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## Department of Computer Engineering

### Internship details (January 2023 - June 2023 / 2022-23 / EVEN Sem)

Sr. No.	Student Name	Class	Company Name	Title of Project	Starting date of internship	End date of internship
1	Gayatri Talreja	D12A	The Sparks Foundation	Basic Banking System	6/1/2022	6/30/2022
2	Pranav Ubarhande	D12A	YourKrishi	YourKrishi	10/8/2022	3/8/2023
3	Roshini Panjwani	D12A	Trivia software	STUDENT MANAGEMENT SYSTEM	12/9/2022	2/9/2023
4	Tanisha Patil	D12A	Oasis Infobyte	Design of application using web development	3/15/2023	4/15/2023
5	Chaitanya Anand Sondur	D12A	DeepCytes	Develop a SaaS platform   Digital Forensics	9/1/2022	7/31/2023
6	NIKHIL HASWANI	D12A	VESIT Renaissance (VESIT CPULSER PVT. LTD.)	To develop an E-commerce Website	12/8/2022	1/8/2023
7	Manasi Shah	D12A	Deepcytes	Develop a SaaS platform   Digital Forensics	9/1/2022	3/10/2023
8	Kaushik Sahasranaman	D12A	DeepCytes	Digital Forensics	9/12/2022	6/15/2023
9	Meera Sawantdesai	D12A	Vesit Website department	Railway Concession Website	7/15/2022	7/15/2024
10	Neha valecha	D7B	Aisec in sobo	YSF event	1/8/2023	8/2/2024
11	Hitesh Devanand Ramrakhyani	D12A	Trivia Software	Student Management System	11/10/2022	1/10/2023
12	Advait	D17B	Investment	Software development	6/1/2022	1/31/2023

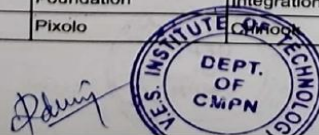




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				Intern		
13	Drishiti Samvedi	D12B	VESIT CPulser PVT LTD	Finance Module	12/6/2022	1/6/2023
14	Gautam Wadhvani	D12B	Yoshops	Data Science Internship	12/19/2022	2/18/2023
15	NIKHIL HASWANI	D12A	VESIT CPULSER PVT. LTD.	To develop an E-commerce Website.	12/8/2022	1/8/2023
16	Chaitanya Pramod Limaye	D12B	Indian Oil Corporation Limited	IT Network Security	12/12/2022	1/8/2023
17	Tanay Phatak	D12B	Cere Labs Pvt. Ltd.	Duplicate Identification from Google Sheets data	12/12/2022	2/11/2023
18	Yash Narkhede	D7B	NIT Kurukshetra	NLP	3/1/2023	7/1/2023
19	Anishkumar Iyer	D12C	IIT Jodhpur	Satellite Image Analysis	1/1/2023	6/1/2023
20	Vidhi Chijwani	D12B	Excelligence	Clover: order-discount app	1/20/2023	3/20/2023
21	Tanmay Yashodhan Damle	D12B	Cerelabs Pvt Ltd	1. Table Column Detection Bot 2. CI Markers	12/12/2022	2/11/2023
22	Aditya Mangtani	D7A	INTERNATIONAL MODEL UNITED NATIONS	Campus Ambassador	11/9/2022	5/9/2023
23	Namrata Avhad	D12A	Trivia softwares	Student management system	12/10/2022	2/10/2023
24	Hitakrit Goplani	D12A	Inventrom Pvt Ltd - Bolt IoT	Baby Monitor, Emergency Belt	12/12/2022	1/23/2023
25	Chaitanya Sondur	D12A	DeepCytes	Digital Forensics	9/1/2022	7/15/2023
26	Vansh Pahuja	D12A	SmartKnober	Artificial Intelligence system	2/7/2022	4/7/2023
27	Kaushik Sahasranaman	D12A	Deepcytes	Digital Forensics	9/12/2022	6/15/2023
28	Nikita Narwani	D12C	Codeclause	Quiz application and Notes taking app	1/1/2023	2/1/2023
29	Laksh Lalwani	D17C	Grroom	Wardrobe suggestions using AI/ML	3/21/2022	5/20/2023
30	Iyer Nikhita Krishnan	D17A	The Sparks Foundation	Payment Gateway Integration	4/1/2021	5/1/2021
31	Divesh Mangtani	D12C	Pixolo	QR Code	12/8/2022	1/8/2023







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32	Iyer Nikhita Krishnan	D17A	Lets Grow More	1] Create a Single Page Website using HTML, CSS and JavaScript 2] Create a web application using create-react-app	8/1/2021	9/1/2021
33	Iyer Nikhita Krishnan	D17A	VESIT Renaissance Cell	Green Credit Management System	6/15/2021	7/31/2021
34	Tanmay Thakare	D12B	Cere Labs Pvt Ltd	Bank Logo detection and Identification, Improving efficiency by providing support of evidence to Bank Logo Detection, Error Report Generation	12/21/2022	2/21/2023
35	Divesh Mangtani	D12C	Pixolo	Chinook	12/8/2022	1/8/2023
36	Teesha Karotra	D12B	SetMyCart	InnoTM	12/27/2022	2/28/2023
37	Ritika Hotwani	D12B	Trivia software	KRYPTO- platform for crypto currency beginners.( JS MERN STACK)	12/9/2022	2/11/2023
38	KESAR JOTWANI	D12A	VESIT INTERNSHIP	Medicam - Medical Image Analysis	12/8/2022	1/8/2023
39	Iaha Desai	D12A	VESIT	Health monitoring using IOT	6/1/2022	7/7/2022
40	Iyer Nikhita Krishnan	D17A	VESIT Certificate website	Full Stack Web Development	6/1/2021	5/1/2023
41	Meera Mandar Sawantdesai	D12A	Vesit website department	Railway concession website	7/15/2022	7/15/2024
42	Roshini Panjwani	D12A	Trivia Softwares	STUDENT MANAGEMENT SYSTEM	12/9/2022	2/9/2023
43	Tejas Mahajan	D17A	National Institute of Technology Kurukshetra	Legal Judgement Prediction of Cases proceeding at the Supreme	2/1/2022	7/31/2022





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				Court of India		
44	Aashish Ajaykumar Nair	D17C	Union Bank of India	Statistical Analysis of Vigilance Department on lending and Letter Management Portal development	6/1/2022	11/10/2022
45	Sakshi Bhojwani	D12B	TechShots	NA	11/9/2022	2/9/2023
46	Priotosh Mondal	D12A	VESIT Renaissance Cell	Medical Image Analysis	12/5/2022	1/9/2023
47	Nikkita Gurnani	D12A	Trivia Softwares	Restaurant management system	12/10/2022	2/10/2023
48	Radhika Katiyara	D17A	VESIT railway concession website	Full stack developer	4/15/2021	5/15/2023
49	Vinit Patil	D12B	CollegeRanker Ent	Gym management system	12/1/2022	1/31/2023





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## **A 2-Sample List of Industrial Visit 2022-23**



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## Department : Computer Engineering Field Trip and IV arranged for Students (2022-23 )

Name of Department	Department Of Computer Engineering
Name Of The Project	Gujarati Script Recognition using NLP
Date of IV	26th June 2023
Name and address of Industry	<b>TIFR Campus, Colaba, Mumbai</b>
Class Visited	Final year
Number of students visited	<b>4 Students- CMPN</b>
Number of staff visited	02
Profile of Industry (in short)	TIFR is a National Centre of the Government of India, under the umbrella of the Department of Atomic Energy, as well as a deemed University awarding degrees for master's and doctoral programs.
Objective of Visit	<ol style="list-style-type: none"> <li>1. To get exposure to the real workstations and systems.</li> <li>2. To meet the senior functional experts/supervisors to explain about company functions.</li> <li>3. To understand the end-to-end process at different levels.</li> <li>4. To have a one-to-one interaction with the Mentor</li> <li>5. To understand the company policies in terms of production, quality, and service management.</li> <li>6. To Make Students Aware with Industry Practices.</li> <li>7. To Increase Practical Awareness of various Industrial Sectors.</li> </ol>
Outcome of Visit	<ol style="list-style-type: none"> <li>1. Students are able to gain Practical Knowledge.</li> <li>2. Students are exposed to a real working environment.</li> <li>3. The gap between theoretical learning and practice exposure is bridged by industrial visits.</li> <li>4. Students get a platform to enhance their interpersonal skills.</li> <li>5. Students get to see the best practices opted by different companies for similar work.</li> </ol>



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## Department of Computer Engineering

### TIFR - VESIT Collaboration Project

#### Minutes of the Meeting

**Venue:** TIFR Campus, Colaba, Mumbai

**Date:** 27th June 2023

#### Participant's Attendance List:

- Mr. Irfan R Mirza - Scientific Officer, Department of High Energy Physics, TIFR
- Dr. Rohini Temkar- Assistant Professor, Computer Engineering, VESIT
- Mrs. Lifna C S - Assistant Professor, Computer Engineering, VESIT
- Shivoham Rajesh Angal - Student, Computer Engineering, VESIT
- Rutvik Rajendra Purohit - Student, Computer Engineering, VESIT
- Dhruv Hundraj Sachdev - Student, Computer Engineering, VESIT

#### Agenda:

- Visit TIFR on campus.
- To show the final implementation and deployment of the project.
- Project Approval from Irfan Sir and Pruthvi Sir.

#### Points Discussed

1. To make corrections if any discrepancy is found in the cookbook.
2. Irfan Sir pointed out the following suggestions
  - a. Incorporating the font during the installation of the Application.
  - b. Improving recognition of characters like ॡ and ॢ
  - c. Improving recognition of ॣ कर



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Department of Computer Engineering

TIFR - VESIT Collaboration Project

Minutes of the Meeting



GSR Team from VESIT along with Mr. Irfan Mirza





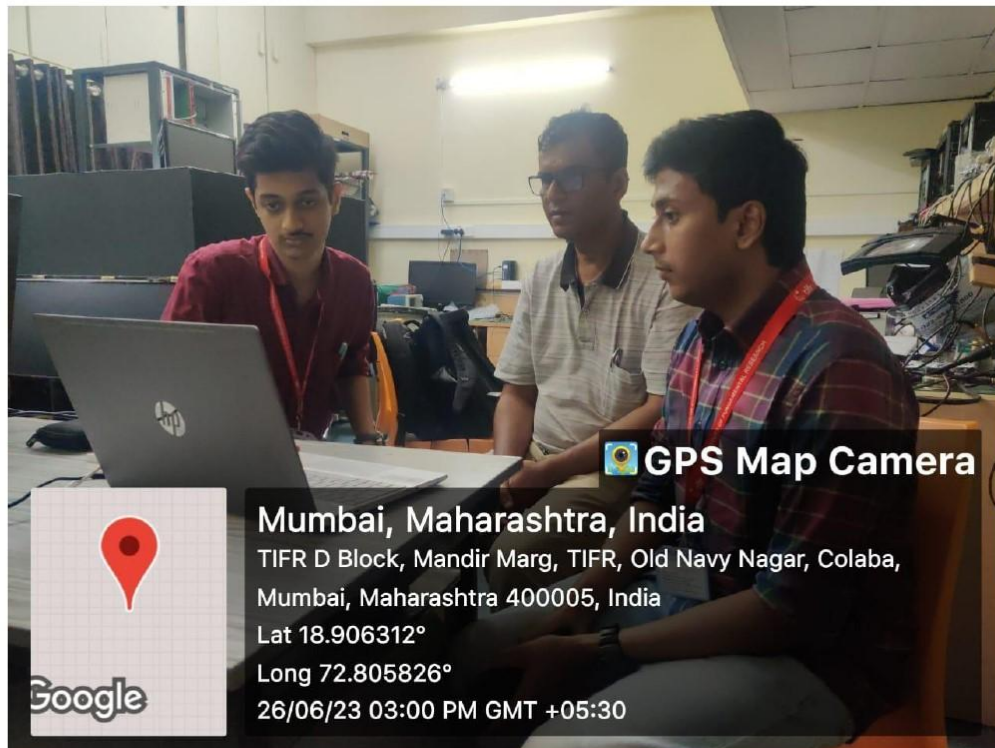
# Vivekanand Education Society's Institute of Technology

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Department of Computer Engineering

TIFR - VESIT Collaboration Project

Minutes of the Meeting



GSR Team demonstrating the working of the system to Mr. Irfan Mirza



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Name of Department	Department Of Computer Engineering
Name Of The Project	Touchless attendance System with Voice and Face Recognition
Date of IV	23rd May 2023
Name and address of Industry	<b>TIFR Campus, Colaba, Mumbai</b>
Class Visited	Final year
Number of students visited	<b>4 Students- CMPN</b>
Number of staff visited	02
Profile of Industry (in short)	TIFR is a National Centre of the Government of India, under the umbrella of the Department of Atomic Energy, as well as a deemed University awarding degrees for master's and doctoral programs.
Objective of Visit	<ol style="list-style-type: none"> <li>1. To get exposure to the real workstations and systems.</li> <li>2. To meet the senior functional experts/supervisors to explain about company functions.</li> <li>3. To understand the end-to-end process at different levels.</li> <li>4. To have a one-to-one interaction with the Mentor</li> <li>5. To understand the company policies in terms of production, quality, and service management.</li> <li>6. To Make Students Aware with Industry Practices.</li> <li>7. To Increase Practical Awareness of various Industrial Sectors.</li> </ol>
Outcome of Visit	<ol style="list-style-type: none"> <li>1. Students are able to gain Practical Knowledge.</li> <li>2. Students are exposed to a real working environment.</li> <li>3. The gap between theoretical learning and practice exposure is bridged by industrial visits.</li> <li>4. Students get a platform to enhance their interpersonal skills.</li> <li>5. Students get to see the best practices opted by different companies for similar work.</li> </ol>

**Venue: TIFR Campus, Colaba, Mumbai**

**Date: 23rd May 2023**





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## Participant Attendance List:

- Mr. Pruthvi Suryadevara - Research Scholar, TIFR
- Dr. Gresha Bhatia - Deputy Head of Department, Computer Engineering, VESIT
- Mrs. Abha Tewari - Assistant Professor, Computer Engineering, VESIT
- Garv Jhangiani - Student, Computer Engineering, VESIT
- Muskan Hassanandani- Student, Computer Engineering, VESIT
- Shreya Hegde- Student, Computer Engineering, VESIT
- Prerak Moolchandani - Student, Computer Engineering, VESIT





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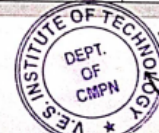
## **A 3- List of Student Field Projects 2022-23**



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Vivekanand Education Society's Institute Of Technology									
Department Of computer Engineering									
Academic Year:2022-23									
B.E. Project Allocation									
Group Nos.	Group Members	e-mail	Class	Roll nos.	Average CGPA	Contact no.		Mentor	Remark
1	Akash Sonare	2019akash.sonare@ves.ac.in	D17C	58	9.73	932424592	CMS Detector Quality Assurance using ML. Methods - EXTENDED	Dr. Nupur Giri + Mr. Richard Joseph	TIFR
	Aashish Nair	2019aashish.nair@ves.ac.in	D17C	43	9.74				
	Mihir Pamnani	2019mihir.pamnani@ves.ac.in	D17C	46	9.84				
	Sneha Karthik	2019sneha.karthik@ves.ac.in	D17C	57	9.83				
2	Roshni Jha	2019roshni.jha@ves.ac.in	D17C	25	9.48	9324339116	Mobile Keyboard Prediction using Federated Learning	Dr. Nupur Giri	
	Khushi Chouhan	2019khushichouhan@ves.ac.in	D17C	14	9.89				
	Shaikh Insha	2019shaikh.insha@ves.ac.in	D17C	54	9.64				
	Nikita Jha	2019nikita.jha@ves.ac.in	D17C	24	9.82				
3	Vishesh Mittal	2019vishesh.mittal@ves.ac.in	D17B	39	9.74	7507133353	Spatiotemporal Forecasting of Traffic Flow Data & Optimal Path Navigation	Dr. Nupur Giri	
	Paras Patil	2019paras.patil@ves.ac.in	D17B	46	9.74				
	Akshita Upadhyay	2019akshita.upadhyay@ves.ac.in	D17B	61	9.62				
	Dhruvisha Mondhe	2019dhruvisha.mondhe@ves.ac.in	D17B	40	9.88				
4	Yashraj Desai	2019yashraj.desai@ves.ac.in	D17B	15	9.67	9004383791	MetaMart	Dr. Nupur Giri	
	Mihir Rane	2019mihir.rane@ves.ac.in	D17B	53	9.86				
	Shreyas Poojari	2019shreyas.poojari@ves.ac.in	D17B	48	9.86				
	Aniket Dewanani	2019aniket.dewanani@ves.ac.in	D17B	16	9.68				
5	Garv Jhangiani	2019garv.jhangiani@ves.ac.in	D17A	30	9.52	9022266809	Pehchaan: A Touchless Attendance System	Dr. Gresha Bhatia + Mrs. Azha Towari	TIFR
	Muskan Hassanandani	2019muskan.hassanandani@ves.ac.in	D17A	25	9.54				
	Shreya Hegde	2019shreya.hegde@ves.ac.in	D17A	26	9.43				
	Prerak Moolchandani	2019prerak.moolchandani@ves.ac.in	D17A	51	9.36				
6	Tejas Mahajan	2019tejas.mahajan@ves.ac.in	D17A	45	9.14	7506947750	HarGharSolar: Recognition of Potential Rooftop Photo/Voltaic Arrays using Geospatial Imagery and Extrapolation of Power Generation for Diverse Climate Zones.	Dr. Gresha Bhatia	
	Juhi Chhatlani	2019juhi.chhatlani@ves.ac.in	D17A	12	8.97				
	Rishabh Rajwani	2019rushabh.rajwani@ves.ac.in	D17A	50	9.06				
	Advait Bansode	2019advait.bansode@ves.ac.in	D17A	6	9.3				
7	Vaidehi Bhagwat	2019vaidehi.bhagwat@ves.ac.in	D17A	10	9.87	9892678869	User Preference Recommendation System & Analytics for News Articles	Dr. Gresha Bhatia	
	Aishwarya Krishnamurthy	2019aishwarya.krishnamurthy@ves.ac.in	D17A	3	9.32				
	Iqot Khurana	2019iqot.khurana@ves.ac.in	D17A	30	9.4				
	Himanshu Behra	2019himanshu.behra@ves.ac.in	D17A	9	9.31				
8	Minal Katware	2019minal.katware@ves.ac.in	D17A	33	9.89	9923529385	This-Able: An Aid to get Paid	Dr. Gresha Bhatia	
	Gunjan Lalwani	2019gunjan.lalwani@ves.ac.in	D17A	42	9.12				
	Mohit Lalwani	2019mohit.lalwani@ves.ac.in	D17A	43	9.3				
	Abhishhek Patwardhan	2019abhishhek.patwardhan@ves.ac.in	D17A	57	9.19				



*Annal*



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9	Jai Malani	2019jaimalani@ves.ac.in	D17A	46	9.53	777603997	Conversational Artificial Intelligence for E-commerce	Dr. Sujata Khedkar	
	Kusum Rohra	2019kusum.rohra@ves.ac.in	D17A	62	9.5				
	Khushboo Dalwani	2019khushboo.dalwani@ves.ac.in	D17A	13	9.64				
	Khushboo Dhingra	2019khushboo.dhingra@ves.ac.in	D17A	19	9.13				
10	Shubham Zope	2019shubham.zope@ves.ac.in	D17A	72	9.76	7506102915	LensPatrol	Dr. Sujata Khedkar	
	Hitar Karmy	2019hitar.karmy@ves.ac.in	D17A	39	9.71				
	Rakesh Deshmukh	2019rakesh.deshmukh@ves.ac.in	D17A	16	9.34				
11	Venkatesh Rallapalli	2019venkatesh.rallapalli@ves.ac.in	D17A	59	9.6	7045582917	Speech Emotion Recognition	Dr. Sujata Khedkar	
	Abinash Behera	2019abinash.behera@ves.ac.in	D17A	09	9.31				
	Soham Vikramaditya Ambre	2019soham.ambre@ves.ac.in	D17A	04	9.16				
	Adwait Rajiv Shirodkar	2019adwait.shirodkar@ves.ac.in	D17A	67	9.02				
12	Dhiren Anil Ganwani	2019dhiren.ganwani@ves.ac.in	D17A	21	8.94	7977095276	Chat Analytics	Dr. Sujata Khedkar	
	Dipti Menghani	2019dipti.menghani@ves.ac.in	D17B	38	9.38				
	Kumodh Kukreja	2019kumodh.kukreja@ves.ac.in	D17B	31	9.12				
	Payal Mangtani	2019payal.mangtani@ves.ac.in	D17B	37	9.42				
13	Payal Kukreja	2019payal.kukreja@ves.ac.in	D17B	32	9.22	9324040843	Bruxism and clenching habit and its effect on muscles of mastication and on TMJ	Dr. Sharmila Sengupta	
	Rashmi Singh	2019rashmi.singh@ves.ac.in	D17B	58	9.84				
	Asmita Bhangare	2019asmita.bhangare@ves.ac.in	D17B	10	9.91				
	Hrithika Singh	2019hrithika.singh@ves.ac.in	D17B	57	9.34				
14	Shubhangi Zope	2019shubhangzope@ves.ac.in	D17B	69	9.64	9167126761	AI based WOI analysis of Maharashtra	Dr. Sharmila Sengupta	
	Iyer Nikhita Krishnan	2019nikhita.iyer@ves.ac.in	D17A	27	9.92				
	Radhika Katiyara	2019radhika.katiyara@ves.ac.in	D17A	32	9.16				
	Drishiti Katiyara	2019drishiti.katiyara@ves.ac.in	D17A	26	9.44				
15	Maitryee Choudhary	2019maitryee.choudhary@ves.ac.in	D17A	14	9.92	9867382325	Physical object identification in CMS at CERN.	Dr. Sharmila Sengupta + Mrs. Sunita Sahu	TIFR
	Mayur Jaisinghani	2019mayur.jaisinghani@ves.ac.in	D17A	29	9.13				
	Chirag Lundwani	2019chirag.lundwani@ves.ac.in	D17A	44	9.14				
	Orijeet Mukherjee	2019orijeet.mukherjee@gmail.com	D17A	52	9.53				
16	Neeharika Nagori	2019neeharika.nagori@gmail.com	D17A	54	9.8	7506358094	Oral Cancer Prediction	Dr. Sharmila Sengupta	
	Akhil Chakkungal	2019akhil.chakkungal@ves.ac.in	D17B						
	Riya Shukla	2019riya.shukla@ves.ac.in	D17B						
	Patak Garg	2019palak.garg@ves.ac.in	D17B						
17	Samia Kanoja	2019samita.kanoji@ves.ac.in	D17B			7028102133	kisan- multiservice app for farmers	Dr. Prashant Kanade	
	Shrushti Govindwar	2019shrushti.govindwar@ves.ac.in	D17C	22	9.34				
	Shruti Mehta	2019shruti.mehta@ves.ac.in	D17C	41	9.27				
	Kanchan Nathani	2019kanchan.nathani@ves.ac.in	D17C	44	8.85				
18	Sonali Bodhwani	2019sonali.bodhwani@ves.ac.in	D17C	11	9.24	9324303423	Secure Multimedia Communication	Dr. Prashant Kanade + Mrs. Yugbhaya Golpat	TIFR
	Aashish Ramesh Rajeja	2019aashish.rajeja@ves.ac.in	D17B	51	9.14				
	Kartikey Verma	2019kartikkey.verma@ves.ac.in	D17B	65	9.5				
	Ashwin Pansare	2019ashwin.pansare@ves.ac.in	D17B	43	9.44				
19	Karan Punjabi	2019karan.punjabi@ves.ac.in	D17B	49	9.32	7387349571	Analysis of Persona using Machine Learning	Dr. Prashant Kanade	
	Suresh Aydi	2019suresh.aydi@ves.ac.in	D17A	05	8.27				
	Siddhi Bhosale	2019siddhi.bhosale@ves.ac.in	D17A	11	9.83				
	Gaytri Aasija	2019gaytri.aasija@ves.ac.in	D17A	01	7.36				
Laveena Shewkani	2019laveena.shewkani@ves.ac.in	D17A	65	9.2					





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20	Madhav Bhutada	2019madhav.bhutada@ves.ac.in	D17C	9	9.2	9763731109	EZFinance	Dr. Dattatram Mane	
	Bhavisha Khanbandani	2019bhavishyakhanbandani@ves.ac.in	D17C	30	8.93				
	Vishesh Sachdev	2019vishesh.sachdev@ves.ac.in	D17C	51	7.96				
	Bhajan Waiwani	2019bhajan.waiwani@ves.ac.in	D17C	65	8.18				
21	Prithvi Kumar	2019prithvikumar@ves.ac.in	D17A	40	9.22	9403138314	Rehearse: AI based feedback on communication skills	Dr. Dattatram Mane	
	Anurag Saraswat	2019anurag.saraswat@ves.ac.in	D17A	63	9.04				
	Karan Sharma	2019karan.sharma@ves.ac.in	D17A	64	8.76				
	Ashwin Kurup	2019ashwin.kurup@ves.ac.in	D17A	41	8.82				
22	Amol Mah	2019amol.mah@ves.ac.in	D17C	37	8.9	9545351896	Kisan Connect - Smart Farming App	Dr. Rohini Temkar	
	Atharva Kathane	2019atharvakathane@ves.ac.in	D17C	27	9.43				
	Manthan Pawar	2019manthan.pawar@ves.ac.in	D17C	48	8.85				
	Harsh Khairajani	2019harsh.khairajani@ves.ac.in	D17C	29	8.84				
23	Manavi Patwa	2019manavipatwa@ves.ac.in	D17C			9422896327	Activity Monitoring and Unusual Activity Detection for Elderly Homes	Mrs. Geocey Shejy	
	Bhavika Chhatri	2019bhavikachhatri@ves.ac.in	D17C						
	Vamit Barhwa	2019vamit.barhwa@ves.ac.in	D17A						
	Sahil Deshmukh	2019sahil.deshmukh@ves.ac.in	D17A						
24	Manish Khawari	2019manish.khawari@ves.ac.in	D17B			9527093456	Smart Ride Sharing	Mrs. Geocey shejy	
	Vijay Begewar	2019vijay.begewar@ves.ac.in	D17B						
25	Bharat Uttamchandani	2019bharat.uttamchandani@ves.ac.in	D17B	62	9.55	7303064007	Heart Disease Prediction Using ML	Mrs. Vidya Zope	
	Dhiraj Taneja	2019dhiraj.taneja@ves.ac.in	D17B	60	9.1				
	InderpalSingh Ramani	2019inderpalsingh.ramani@ves.ac.in	D17B	52	9.09				
	Paarth Kulkarni	2018paarth.kulkarni@ves.ac.in	D17B	32	8.28				
26	Rohit Dip Manghani	2019rohit.manghani@ves.ac.in	D17B			8355669928	Hand Gesture Recognition for Disabled People	Mrs. Vidya Zope	
	Kartik Nagdev	2019kartik.nagdev@ves.ac.in	D17B						
	Valecha Kirti	2019kirtivalecha@ves.ac.in	D17B						
27	Disha Mehta	d2019.disha.mehta@ves.ac.in	D17A	49	9.99	9967406364	Analysis and Detection of Alzheimer's Disease using MRI	Mrs. Indu Dokare	
	Aakash Mohite	d2019.aakash.mohite@ves.ac.in	D17A	50	9.86				
	Vaishnavi Shinde	d2019.vaishnavishinde@ves.ac.in	D17A	66	9.96				
	Ritika Khatri	d2019.ritika.khatri@ves.ac.in	D17C	31	9.73				
28	Priyaa Agarwal	2019priyaa.agarwal@ves.ac.in	D17B	2	9.09	9833130112	Early Detection of Parkinson's Disease Using Machine Learning	Mrs. Indu Dokare	
	Rutuja Patil	2019rutujapatil@ves.ac.in	D17B	47	8.97				
	Vaishnavi Jadhav	2019vaishnavijadhav@ves.ac.in	D17B	20	9.01				
	Vipin Talreja	2019vipin.talreja@ves.ac.in	D17B	59	9				





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29	Riya Ranglani	2019riyaranglani@ves.ac.in	D17C	49	8.69	7045492899	Sahayata - A System to promote Inclusivity	Mrs. Priya P.L.	
	Nayani Padave	d2019niyanipadave@ves.ac.in	D17C	45	9.86				
	Anand Tekwani	d2019anandtekwani@ves.ac.in	D17C	62	9.73				
30	Sakshi Talreja	d2019sakshitajreja@ves.ac.in	D17C	61	9.73	932668855	Wireless extraction of Display Panel Data on complex machines using non-invasive and wireless approach with ML techniques	Mrs. Priya P.L. + Mrs. Nusrat Ansari	TFR
	Nair Ajay Ravindran	2019ajaynair@ves.ac.in	D17A	55	10				
	I N Guru Akash	2019gurukaash.janthalur@ves.ac.in	D17A	28	9.67				
	Varen Prashy	2019varuntripathy@ves.ac.in	D17A	69	9.67				
	Manjandam Kashimani	2019manjandam.kashimani@ves.ac.in	D17A	47	9.72				
31	Shubham Gorwani	2019shubhamgorwani@ves.ac.in	D17C	21	8.73	8208087023	Vehicle Information Using Blockchain	Mrs. Priya P.L.	
	Lalsh Lalwani	2019lalsh.lalwani@ves.ac.in	D17C	34	8.57				
	Naman Tahiyani	2019naman.tahiyani@ves.ac.in	D17C	60	8.03				
	Dheera Yadav	2019dheerayadav@ves.ac.in	D17C	66	9.41				
	Aman Kachru	2019aman.kachru@ves.ac.in	D17B	24	9.32				
32	Varsha Iwani	2019varsha.iwani@ves.ac.in	D17B	23	9.53	8810683029	Tajama : The Kashmiri Translator	Mrs. Lihia C.S.	
	Komal Sethiya	2019komalsethiya@ves.ac.in	D17B	55	8.73				
	Shivham Anpal	2019shivhamanpal@ves.ac.in	D17B	3	9.57				
33	Dhruv Sachdev	2019dhruvsachdev@ves.ac.in	D17B	54	9.76	7700964954	Gujarati Script Recognition (GSR)	Mrs. Lihia C.S. + Dr. Mrs. Rohini Temkar	TFR
	Mrunal Parab	2019mrunalparab@ves.ac.in	D17B	44	9.56				
	Rutvik Purohit	2019rutvik.purohit@ves.ac.in	D17B	50	9.16				
34	Tarun Mishra	2019tarun.mishra@ves.ac.in	D17C	42	9.6	8356858948	Automated Web Article Extraction based on RSS and Summarization with Pointer-Generator Networks	Mrs. Abha Tewari	
	Tejas Gala	2019tejas.gala@ves.ac.in	D17C	17	9.61				
	Sohan Walwalkar	2019sohan.walwalkar@ves.ac.in	D17C	64	9.31				
	Kaushal Jagasia	2019kaushal.jagasia@ves.ac.in	D17C	23	8.9				
35	Tanya Baiji	2019tanyabaiji@ves.ac.in	D17C	05	9.05	8080711643	Sentiment Analysis of Product Based Reviews Using Machine Learning	Mrs. Abha Tewari	
	Komal Asrani	2019komal.asrani@ves.ac.in	D17C	04	8.33				
	Sakshi Gangwani	2019sakshigangwani@ves.ac.in	D17C	19	8.53				
	Niketa Ahuja	2019niketa.ahuja@ves.ac.in	D17C	02	8.69				
36	Jahnvi Mulchandani	2019jahnvimulchandani@ves.ac.in	D17A	53	9.94	9145485304	Automated stock portfolio recommendation	Mrs. Manal Doulari	
	Shruti Koku	2019shrutikoku@ves.ac.in	D17A	38	9.88				
	Aryan Gupta	2019aryangupta@ves.ac.in	D17A	24	8.8				
	Ruchi Dusija	2019ruchidusija@ves.ac.in	D17A	20	9.51				
	Piyush Kataria	2019piyushkataria@ves.ac.in	D17A	31	8.72				
37	Jitesh Ladhani	2019jiteshladhani@ves.ac.in	D17A	33	8.45	7038778597	Image to text summarisation	Mrs. Manal Doulari	
	Kunal Godhwani	2019kunalgodhwani@ves.ac.in	D17A	18	8.56				
	Varad Joshi	2019varad.joshi@ves.ac.in	D17A	26	9.44				
38	Aditya Khomane	2019aditya.khomane@ves.ac.in	D17A	36	9.12	8291520441	Shodhak - A Credit Card Fraud Detection System	Mrs. Pallavi Gangurde	
	Yash Lakhani	2019yash.lakhani@ves.ac.in	D17A	33	8.33				
	Saurabh Lalwani	2019saurabhlalwani@ves.ac.in	D17A	35	8.6				
	Hitesh Ahuja	2019hitesh.ahuja@ves.ac.in	D17A	01	8.7				
39	Kapish Madhwani	2019kapish.madhwani@ves.ac.in	D17B	35	9.44	8369117019	Smart Refrigerator	Mrs. Pallavi Gangurde	
	Rounak Talreja	2019rounaktalreja@ves.ac.in	D17B	68	9.13				
	Kaustabh Keny	2019kaustabhkeny@ves.ac.in	D17B	27	9.59				
	Prum Robera	2019prum.robera@ves.ac.in	D17B	9.39	9.39				





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40	Jasmine Sawara	2019jasmine.sawara@ves.ac.in	D17C	53	9.13	960307720	Mental Health Prediction Using Image Processing and Machine Learning	Mrs. Nusrat Anan
	Vanshika Bajaj	2019vanshika.bajaj@ves.ac.in	D17C	06	9.18			
	Chandni Meghani	2019chandni.meghani@ves.ac.in	D17C	40	8.94			
	Rishabh Bathia	2019rishabh.bathia@ves.ac.in	D17C	07	8.89			
41	Lavina Varwani	2019lavina.varwani@ves.ac.in	D17B	66	9.55	9892419707	MOOC Course Recommendations and Knowledge Enhancement for Career Growth using AI/ML.	Mrs. Sunita Suralkar
	Girish Khemchandani	2019girish.khemchandani@ves.ac.in	D17B	28	9.44			
	Neha Varwani	2019neha.varwani@ves.ac.in	D17B	64	9.3			
	Bhavesh Janyani	2019bhavesh.janyani@ves.ac.in	D17B	21	9.59			
42	Khushboo Bajaj	2019khushboo.bajaj@ves.ac.in	D17A	11	9.51	9835000000	Grow more	Mrs. Sunita Suralkar
	Anisha Dhameja	2019anisha.dhameja@ves.ac.in	D17A	23	9.81			
	Karan Kohra	2019karan.kohra@ves.ac.in	D17A	62	8.3			
	Sakshi Ailishgani	2019sakshi.ailishgani@ves.ac.in	D17A	08	9.09			
43	Harsh Bhat	2019harsh.bhat@ves.ac.in	D17B	11	9.73	9082232836	Decentralised Banking Services Using Blockchain	Mrs. Sanjay Mirchandani
	Yash Jawale	2019yash.jawale@ves.ac.in	D17B	22	9.52			
	Gourab Bank	2019gourab.bank@ves.ac.in	D17B	5	9.53			
	Ruturaj Wairkar	2019ruturaj.wairkar@ves.ac.in	D17B	68	9.19			
44	Harsh Lube	2019harsh.lube@ves.ac.in	D17B			823739535	Social/Do/Real - Detection system for fake social media accounts	Mrs. Sujata Khanduskar
	Kunal Wadhwani	2019kunal.wadhwani@ves.ac.in	D17B					
	Yash Ahuja	2019yash.ahuja@ves.ac.in	D17B					
45	Abdul Hannan Gharade	d2019abdulhannan.gharade@ves.ac.in	D17C	20	9.99	7021932490	Smart-Eye Guidance system for the visually impaired	Mrs. Sujata Khanduskar
	Hema Gallani	2019hema.gallani@ves.ac.in	D17C	18	8.5			
	Bhavesh Menghwan	2019bhavesh.menghwan@ves.ac.in	D17C	39	7.94			
	Palash Mandhan	2019palash.mandhan@ves.ac.in	D17C	38	8.22			
46	Parth Wadke	d2019parth.wadke@ves.ac.in	D17A	70	10	8451074525	Forecasting of Carbon Emission due to Meat Industry	Mrs. Sunita Sahu
	Vivek Gonal	d2019vivek.gonal@ves.ac.in	D17A	23	9.94			
	Divesh Watwani	d2019divesh.watwani@ves.ac.in	D17A	71	9.99			
	Prithvraj Chavan	2019prithvraj.chavan@ves.ac.in	D17A	13	9.1			
47	Nirmali Sali	2019nirmali.sali@ves.ac.in	D17C	52	9.59	8530959430	Food Supply Chain Management using Blockchain	Mrs. Sunita Sahu
	Srushti Bhalwar	2019srushti.bhalwar@ves.ac.in	D17C	10	9.85			
	Nimisha Khandilkar	2019nimisha.khandilkar@ves.ac.in	D17C	28	9.67			
	Amisha Swamy	2019amisha.swamy@ves.ac.in	D17C	59	9.87			
48	Chirag Dayaramani	2019chirag.dayaramani@ves.ac.in	D17A	15	9.49	9922680185	Predicare - ML based Disease Diagnostic System	Mrs. Yugchhaya Galphat
	Disha Raghani	2019disha.rahgani@ves.ac.in	D17A	58	8.91			
	Lavenna Kihani	2019lavenna.kihani@ves.ac.in	D17A	37	9.56			
	Yash Krijlani	2019yash.krijlani@ves.ac.in	D17A	39	9.88			



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49	Aryan Bedi	d2019aryan.bedi@ves.ac.in	D17B	07	9.46	9834889709	Enterprise Resource Planning System	Mrs. Palkavi Sairdane
	Chirag Matali	d2019chirag.matali@ves.ac.in	D17B	48	9.79			
	Dhruv Ahir	2019dhruv.ahir@ves.ac.in	D17B	1	9.25			
	Aashutosh Alankar Baraskar	d2019aashutosh.baraskar@ves.ac.in	D17A	07	10			
50	Soham Das	2019soham.das@ves.ac.in	D17A	14	9.81	9869046538	GrowSkill: A platform to upskill and job search	Mrs. Palkavi Sairdane
	Yugesh Khatri	2019yugesh.khatri@ves.ac.in	D17A	35	8.93			
	Meet Patel	2019meet.patel@ves.ac.in	D17A	56	9.58			
	Sourabh Bera	2019sourabh.bera@ves.ac.in	D17C	8	9.13			
51	Pranav Gadhave	2019pranav.gadhave@ves.ac.in	D17C	16	9.77	9372674979	Disaster Management System using Deep Learning	Mr. Richard Joseph
	Pranav Chaturvedi	2019pranav.chaturvedi@ves.ac.in	D17C	13	9.05			
	Adarsh Singh	2019adarsh.singh@ves.ac.in	D17C	56	9.69			
	Gauri Mahajan	2019gauri.mahajan@ves.ac.in	D17C	36	9.63			
52	Shruti Shetty	2019shruti.shetty@ves.ac.in	D17C	55	9.5	9323158797	Crime Scene Reconstruction	Mr. Richard Joseph
	Mrunmayee Waingankar	2019mrunmayee.waingankar@ves.ac.in	D17C	63	9.69			
	Jay Deshmukh	2019jay.deshmukh@ves.ac.in	D17C	15	9.67			
	Chirag Parthani	2019chirag.parthani@ves.ac.in	D17B	45	8.78			
53	Pratik Awani	d2019pratik.awani@ves.ac.in	D17B	4	8.65	8600354733	MedEx - Secured Medical Report Management using Blockchain Technology	Mrs. Veena Trivedi
	Rohan Ghume	2019rohan.ghume@ves.ac.in	D17B	22	8.81			
	Gulam Mohammad Ali	2019gulam.mohammadali@ves.ac.in	D17B	19	8.89			





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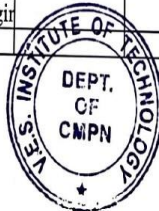
## **A 4. List of Student Mini Projects 2022-23**



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Department Of Computer Engineering								
Academic year 2022-23								
Second Year Mini Project 1 - A (CSM 301)								
Group no	Name of Student	Class Roll no	Email ids	Team leader contact	Project Guide	Project Title	Sustainable Development Goal	Domain
1	Aditya Mangtani	D7A 41	2021.aditya.mangt	7276209572	Dr. Sujata Khedkar	Real time Transcribing	Industry Innovation and Infrastructur	AI, Deep Learning and Data Warehousing and Mining
	Ishita marathe	D7A 42	2021.ishita.marath					
	Hiten kataria	D7A 29	2021.hiten.kataria@					
	Dhruva Chaudhari	D7A 04	2021.dhruva.chauc					
2	Taufique Ansari	D7C 04	2021.taufique.ansa	7039721655	Dr. Sharmila Sengupta	Mahan Rashtra : an app to discover	Goal 8: Decent work and Economic growth	Product design and Development
	Kinjala Ahuja	01, D7C	2021.kinjala.ahuja					
	Devangana Barua	06, D7C	2021.devangana.ba					
	Dipanshu Ghime	16 D7C	2021.dipanshu.ghi					
3	Vedant R Talwalkar	D7A 57	2021.vedant.talwa	8291656935	Dr. Prashant Kanade	ICT to enhance quality of Life on Land	Goal 15: Life on Land	AI, Deep Learning and Data Warehousing and Mining
	Aditya Kushwaha	37,D7A	2021.aditya.khush					
	Lintomon Chirakkara	9,D7A	2021.lintomon.Chi					
	Chinmay Phapale	46,D7A	2021.chinmay.pha					
4	Jiya Naresh Gangwar	D7A 18	2021.jiya.gangwar	7756977560	Dr. Rohini Temkar	Students Grievance Support System.	Goal 16: Peace, justice and strong institutions	Product design and Development
	Soham Haresh Panjat	D7B 36	2021.soham.panjat					
	Hitesh Chandan Punj	D7B 42	2021.hitesh.punjab					
	Varsha Sanjay Chhab	D7A 07	2021.varsha.chhab					
5	Mohit Patil	D7B 40	2021.mohit.patil@	7522971523	Dr. Rohini Temkar	Smart Manag	Goal 2: Zero Hunger	Product design and Development
	Dhruv Aswani	2/D7B	2021.dhruv.aswani					
	Aryan Manghi	27/D7B	2021.aryan.mangh					
	Mahendra Girase	13/D7B	2021.mahendra.gir					



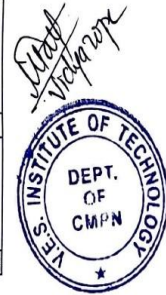
*Vidya rope*



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SUSTAINABLE DEVELOPMENT GOALS		Department Of Computer Engineering Academic year 2022-23 Second Year Mini Project 1 - A (CSM 301)						
6	Amit Murkalmath	D7C 41	2021.amit.murkalr	8692922529	Dr. Rohini Temkar	Alumni Tracking system	Goal 4: Quality Education	Product design and Development
	Ilham Syed Sahriyaar	D7C 55	2021.syed.sahriyaar					
	Rishi Kokil	D7C 34	2021.rishi.kokil@					
	Pavan Thakur	D7C 61	2021.pavan.thakur					
7	Prasad chaudhari	D7B 08	2021.prasad.chaud	8369217247	Dr. Dashrath Mane	analysis and Text mining for Understanding consumer perceptions of	Goal 4: Quality Education	AI, Deep Learning and Data Warehousing and Mining
	Deep bhanushali	06-D7B	2021.deep.bhanush					
	Omkar kumbhar	23-D7B	2021.omkar.kumbh					
	Aman Sande	47-D7B	2021.aman.sande@					
8	Ruchir Jain	D7B 17	2021.ruchir.jain@	9619344266	Dr. Dashrath Mane	Employee Tracker Android Application	Goal 4: Quality Education	Product design and Development
	Ketan Paryani	D7B 38	2021.ketan.paryan					
	Vishakha Mangtani	D7B 28	2021.vishakha.ma					
9	Parth wande	D7A 64	2021.parth.wande@	79725 63663	Dr. Dashrath Mane	Face Recognition Based Attendance System	Goal 4: Quality Education	Image Processing, Virtual and Augmented Reality
	Aniket pradhan	47,D7A	2021.aniket.pradha					
	Sarvesh Dongare	15,D7A	2021.sarvesh.dong					
	Jay thakker	59,D7A	2021.jay.thakker@					
10	Anurag Ganesh Shirs	D7A 55	2021.anurag.shirse	8291529650	Mrs. Geocey shejy	NGO network: connecting for better future	GOAL 17: Partnerships to achieve the Goals	AI, Deep Learning and Data Warehousing and Mining
	Uzair Ibrahim Shaikh	52/D7A	2021.uzair.shaikh@					
	Sai Nilesh Thikekar	60/D7A	2021.sai.thikekar@					
	Yash Naresh Chhapro	8/D7A	2021.yash.chhapro					
11	Kavish Punjabi	D7B 43	2021.kavish.punja	9022231306	Mrs. Geocey shejy	Indian Language Rhymes Portal	Goal 4: Quality Education	Product design and Development
	Aryan Hinduja	24-D7A	2021.aryan.hinduja					
	Harsh Chandiramani	10-D7C	2021.chandiraman					
	Karan Nagpal	33-D7B	2021.karan.nagpal					





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SUSTAINABLE DEVELOPMENT GOALS		Department Of Computer Engineering						
		Academic year 2022-23						
Second Year Mini Project 1 - A (CSM 301)								
12	Arya Banavali	D7A 02	2021.arya.banavali	9372639747	Mrs. Vidya Zope	Forts conservation a big challenge	Goal 11: Sustainable cities and communities	Product design and Development
	Ajay Gangwani	16/D7A	2021.ajay.gangwani					
	Purtee Mahajan	40/D7A	2021.purtee.mahajan					
	Sairaj Deshpande	13/D7A	2021.sairaj.deshpande					
13	Pratik Wagharalkar	D7A 63	2021.pratik.wagharalkar	72760 65289	Mrs. Vidya Zope	Shopkaro.io - Ecommerce APP	Innovation and Infrastructure	Product design and Development
	Uday Harisinghani	23/D7A	2021.uday.harisinghani					
	Jeet Dalal	11/D7A	2021.jeet.dalal@v					
	Shrinivas Ghumare	20/D7A	2021.shrinivas.ghumare					
14	Anchal Sharma	D7A 53	2021.anchal.sharma	9890757018	Mrs. Indu Dokare	Waste/extra food management	Goal 2: Zero Hunger	Product design and Development
	Sachin kundal	36 D7A	2021.sachin.kundal					
	Dhiren chlega	56 D7A	2021.dhiren.chlega					
	Meet kewalrmani	30 D7A	2021.meet.kewalrmani					
15	Ayush Balwani	D7A 35	2021.ayush.balwani	9529586794	Mrs. Indu Dokare	Website for Competitive Exams	Goal 4: Quality Education	Product design and Development
	Priyanshu Gurwani	22 D7A	2021.priyanshu.gurwani					
	Harsh Tuli	61 D7A	2021.harsh.tuli@v					
	Aman Kumar		2021.aman.kumar					
16	Anagha Arvind Kulkarni	D7A 34	2021.anagha.kulkarni	9136821964	Mrs. Priya.R.L	Web app for Researchers	Goal 4: Quality Education	Product design and Development
	Chengalva Sai Harikrishna	6 D7A	2021.sai.chengalva					
	Preethika Prakash Shinde	54 D7A	2021.preethika.shinde					
	Sneha Dharmendra Tanna	58 D7A	2021.sneha.tanna@v					
17	Rashika Chandwani	D7B 07	2021.rashika.chandwani	7020970070	Mrs. Priya.R.L	for Transgender Community( Samseva - A system to	Goal 5: Gender Quality	Product design and Development
	Netal Bhansali	D7B 05	2021.netal.bhansali					
	Neha Sewani	48/D7B	2021.neha.sewani					
	Yashneil Ballani	D7B 3	2021.yashneil.ballani					



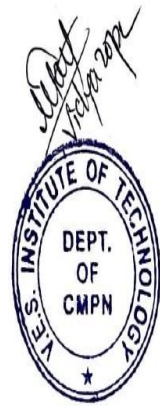
*Vidya Zope*



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SUSTAINABLE DEVELOPMENT GOALS		Department Of Computer Engineering						
		Academic year 2022-23						
		Second Year Mini Project 1 - A (CSM 301)						
18	Richita Karira	D7C 27	2021.richita.karira	7385949466	Mrs. Lifna CS	Intelligent Scholarship Portal	Goal 4: Quality Education	Product design and Development
	Manav Keswani	30-D7C	2021.manav.keswa					
	Tanmay Chaudhary	11-D7C	2021.tanmay.chaud					
	Soumil Tawde	60-D7C	2021.soumil.tawde					
19	Anmol Gyanmote	D7B 14	2021.anmol.gyanm	96532 42546	Mrs. Lifna CS	e-Health Services/ Smart Study	Goal 3: Good Health and well being	Product design and Development
	Shreya Hadkar	15 D7B	2021.shreya.hadka					
	Manali Patil	39 D7B	2021.manali.patil@					
	Pranav Rane	44 D7B	2021.pranav.rane@					
20	Shreya Nalawade	D7B-34	2021.shreya.nalaw	7499735987	Mrs. Abha Tewari	Practice Self-Care	Goal 3: Good Health and well being	Data Analytics and Machine Learning
	Praful Pradhan	D7B- 41	2021.praful.pradha					
	Gayatri Vaidya	D7B-60	2021.gayatri.vaidy					
	Vaishnavi chavan	D7B-9	2021.vaishnavi.cha					
21	Bhagyashree Vaswan	D7A-62	2021.bhagyashree.	7666485532	Mrs. Abha Tewari	Sharing/ Join Second-hand whenever	Goal 17: Partnerships for the Goals	Data Analytics and Machine Learning
	Shamal Dhekale	D7A-14	2021.shamal.dheka					
	Chandni Gangwani	D7A-17	2021.chandni.gang					
22	Soham Tawade	D7C 58	2021.soham.tawad	9820464523	Mrs. Mannat Doultoni	Data Structure algo visulization	Goal 4: Quality Education	Product design and Development
	Vedant Pawar	46 D7C	2021.vedant.pawar					
	Nikhil Singh	54 D7C	2021.nikhil.singh@					
	Vedant Tawade	59 D7C	2021.vedant.tawad					
23	Madhura Gaval	D7B/ 12	2021.madhura.gav	8010472302	Mrs. Mannat Doultoni	Dept Library portal	Industry Innovation and Infrastructur	Product design and Development
	pratham Nathani	D7B 35	2021.pratham.nath					
	Vanshika Lalwani	D7B/25	2021.vanshika.lalw					





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SUSTAINABLE DEVELOPMENT GOALS		Department Of Computer Engineering						
		Academic year 2022-23						
		Second Year Mini Project 1 - A (CSM 301)						
24	Tasmiya Sarfaraz Khan	D7A 32	2021.tasmiya.khan	9372091996	Ms. Pallavi Gangurde	Educational Gaming App for kids	Goal 4: Quality Education	Product design and Development
	Ketaki Dhananjay Naik	45 - D7A	2021.ketaki.nalaw					
	Srushti Satish Samba	50-D7A	2021.srushti.samba					
	Dinky Khatri	33-D7A	2021.dinky.khatri@					
25	Akshita Bathija	D7C 07	2021.akshita.bathij	7666292019	Ms. Pallavi Gangurde	E-Samvidhaan App	Goal 4: Quality Education	Product design and Development
	Muskan Talreja	55 D7B	2021.muskan.talre					
	Karan Kewalramani	31 D7C	2021.karan.kewalr					
	Sumeet Verlyani	62 D7B	2021.sumeet.verly					
26	Nupur Mirani	D7C 40	2021.nupur.mirani	9022121559	Ms. Pallavi Gangurde	Cloth Material Identifier	Goal 9: Industry Innovation and Infrastructure	Image Processing, Virtual and Augmented Reality
	Jiya Lund	38 D7A	2021.jiya.lund@ve					
	Komal Lund	39 D7A	2021.komal.lund@					
	Manav Daryani	12 D7A	2021.manav.darya					
27	Simran Ahuja	D7C 02	2021.simran.ahuja	9326640113	Mrs. Nusrat Ansari	Diseases Classification using Machine	Goal 3: Good Health and well being	Data Analytics and Machine Learning
	Sania Khan	D7C 32	2021.sania.khan@					
	Sejal Datir	D7C 12	2021.sejal.datir@v					
	Jesica Bijju	D7C 9	2021.jesica.bijju@					
28	Anurag Tripathi	62-D7C	2021.anurag.tripat	9665863562	Mrs. Nusrat Ansari	Detection SARS-COV-2 using Deep	Goal 3: Good Health and well being	AI, Deep Learning and Data Warehousing and Mining
	Bhaves Ahwani	3-D7C	2021.bhaves.ajwa					
	Param Pandey	44-D7C	2021.param.pande					
	Pratham Shetty	52-D7C	2021.pratham.shet					
29	Nikhil Teckchandani	56,D7B	2021.nikhil.teckch	9766935022	Mrs. Nusrat Ansari	Plant Identification using AI for	3: Good Health and Wellbeing	AI, Deep Learning and Data Warehousing
	Akash Fatnani	10,D7B	2021.akash.fatmani					
	Devyaansh Razdan	46,D7B	2021.devyaansh.ra					





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SUSTAINABLE DEVELOPMENT GOALS		Department Of Computer Engineering						
		Academic year 2022-23						
		Second Year Mini Project 1 - A (CSM 301)						
	Kunal Vishwakarma	63, D7B	2021.kunal.vishwa					
30	Piyush Malviya	39/D7C	2021.piyush.malvi	9004530891	Mrs. Sunita Suralkar	Smart Community	Goal 9: Industry Innovation and Infrastructure	Cloud Computing
	Amaan Radhanpura	47/D7C	2021.amaan.radha					
	Himesh Hotwani	23/D7C	2021.himesh.hotw					
	Kunal Khubchandani	33/D7C	2021.kunal.khubch					
31	Sadhak Kumar	35 D7C	2021.sadhak.kuma	9324035215	Mrs. Sunita Suralkar	E-Learning through AR and VR	Goal 4: Quality Education	Image Processing, Virtual and Augmented Reality
	Ravi Valecha	64 D7C	2021.ravi.valecha					
	Vinesh Paralkar	45 D7C	2021.vinesh.paralk					
	Vaibhavi Shetty	53 D7C	2021.vaibhavi.shet					
32	Vedang Rathi	45 D7B	2021.vedang.rathi	8828342783	Mrs. Sunita Suralkar	Fitness Activity Recognition using Smartphones	Goal 3: Good Health and Wellbeing	Image Processing, Virtual and Augmented Reality
	Johan John	20 D7B	2021.johan.john@					
	Bhanu Shamdasani	49 D7B	2021.bhanu.shamd					
	Amisha Chandwani	3 D7A	2021.amisha.chand					
33	Aditya Gaikwad	14 D7C	2021.aditya.s.gaik	8419981975	Mr. Sanjay Mirchandani	Profit Prediction using Machine Learning	Goal 8: Decent work and Economic growth	Data Analytics and Machine Learning
	Tejas Ghodke	17 D7C	2021.tejas.ghodke					
	Atharva Jadhav	25 D7C	2021.atharva.jadha					
	Malhar Pande	43 D7C	2021.malhar.pande					
34	Vishakha Singh	54, D7B	2021.vishakha.sing	9146141313	Mr. Sanjay Mirchandani	Emotions Detection with Machine Learning	Goal 4: Quality Education	Data Analytics and Machine Learning
	Manasi Sharma	51, D7B	2021.manasi.sharm					
	Anushka Shirode	53, D7B	2021.anushka.shiro					
35	Sakshi Valecha	D7C 65	2021.sakshi.valech	7821811052	Mrs. Sujata Khandas	E learning: Learn vigorously	Goal 8: Decent work and Economic	Product design and Development
	Tisha jeswani	D7B 19	2021.tisha.jeswani					
	Varsha Makhija	D7C 38	2021.varsha.makhi					







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SUSTAINABLE DEVELOPMENT GOALS		Department Of Computer Engineering						
		Academic year 2022-23						
		Second Year Mini Project 1 - A (CSM 301)						
	Dipti Hemnani	D7C 21	2021.dipti.hemnani		kar	Rigorously	Economic growth	Development
36	Tanvi Naik	42 D7C	2021.tanvi.naik@v	9372737475	Mrs. Sujata Khandas kar	PsyMoCare	Goal 3: Good Health and well being	Product design and Development
	Sanika Hadap	20 D7C	2021.sanika.hadap					
	Ajay Iyer	24 D7C	2021.ajay.iyer@ve					
	Maanas Ruchandani	48 D7C	2021.maanas.rucha					
37	Aradhya Ingle	25/ D7A	2021.aradhya.ingle	9404965065	Mrs. Sujata Khandas kar	PharmaFirst	Goal 6: Clean Water and Sanitation	Product design and Development
	Anjala Goreja	21/D7A	2021.anjala.goreja					
	Vidisha Jadhvani	27/D7A	2021.vidisha.jadhv					
38	Riddhi Labde	24 D7B	2021.riddhi.labde@	9987799431	Mrs. Sunita Sahu	Educating and Training for under-privileged kids	Goal 4: Quality Education	Product design and Development
	Janvi Paryani	37 D7B	2021.janvi.paryani					
	Priti Shamnani	50 D7B	2021.priti.shamnan					
	Neha Valecha	61 D7B	2021.neha.valecha					
39	Khwaish Shahani	D7C 50	2021.khwaish.shah	9594678912	Mrs. Sunita Sahu	Zero hunger in India	Goal 2: Zero Hunger	Networking and Security
	Bhavika Valecha	D7C 63	2021.bhavika.vale					
	Soham Kelaskar	D7C 29	2021.soham.kelask					
	Jaitra Shahani	D7C 49	2021.jaitra.shahani					
40	Raj Tandon	56 D7C	2021.raj.tandon@v	9820796233	Mrs. Yugchha ya Galpat	Parinaam Result assessment Tool	Goal 4: Quality Education	Product design and Development
	Aaryan Mahadik	37 D7C	2021.aaryan.maha					
	Tarun Sharma	51 D7C	2021.tarun.sharma					
52	Sakshi Kirmathe	D7B 71	d2021.sakshi.kirmat	8652839845	Mrs. Yugchha ya Galpat	Facial Recognition and attendance system	Industry Innovation and Infrastructur	Product design and Development
	Piyush Chugeja	D7B 72	d2021.piyush.chuge					
	Manraj Singh Viridi	D7B 69	d2021.manrajsingh.					
	Deven Rajesh Bhagtani	D7B 68	d2021.deven.bhagta					

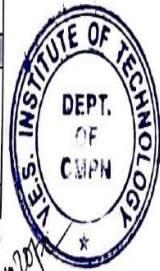




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SUSTAINABLE DEVELOPMENT GOALS		Department Of Computer Engineering							
		Academic year 2022-23							
		Second Year Mini Project 1 - A (CSM 301)							
41	Anisha Sunil Rohra	48 D7A	2021.anisha.rohra@	7758000659	Mrs. Pallavi Saindane	Modern education to make poor children	Goal 4 : Quality Education	Product design and Development	
	Ketaki Paresh Sahasr	49 D7A	2021.ketaki.sahasr@						
	Ayush Rakesh Gerra	19 D7A	2021.ayush.gerra@						
42	Prathamesh Jawale	18 D7B	2021.prathamesh.j	9921744514	Mrs. Pallavi Saindane	Ikshana - An app for homeless elderly	Goal 3: Good Health and well being	Product design and Development	
	Manav Vishwakarma	64 D7B	2021.manav.vishw						
	Rajveer Tolani	57 D7B	2021.rajveer.tolani						
	Mayank Wadhvani(shifted from IT)								
43	Attreyee Mukherjee	D7B 31	2021.attreyee.muk	9930205268	Mr. Richard Joseph	Time Table Management System	Goal 4 : Quality Education	Product design and Development	
	Yashodhan Sharma	D7B 52	2021.yashodhan.sh						
	Amogh Inamdar	D7B 16	2021.amogh.inam						
	Saumya Tripathi	D7B 58	2021.saumya.tripa						
44	Karuna Hotumalani	22 D7C	2021.karuna.hotum	9370199862	Mrs. Veena Trivedi	Mall Navigation Map	Goal 11: Sustainable cities and communities	Product design and Development	
	Kashish Jadhvani	26 D7A	2021.kashish.jadhv						
	Disha Tardeja	57 D7C	2021.disha.tardeja						
	Som Batra	4 D7B	2021.som.batra@v						
45	Anchal Motwani	D7B 30	2021.anchal.motw	8862066639	Mrs. Veena Trivedi	Travel Buddies	Goals: Decent work and Economic growth	Product design and Development	
	Darpan Moorpani	D7A 43	2021.darpan.moor						
	Hiten janjani	D7A 28	2021.hiten.janjani						
	Shubham chelani	D7A 5	2021.shubham.che						
46	Ujwal Gangwani	D7C 15	2021.ujwal.gangw	8369209331	Mrs. Prerna Solanke	E-Plastic Management System	Goal 6: Clean Water and Sanitation	Product design and Development	
	Dinesh Udrani	D7B 59	2021.dinesh.udran						
	Gaurav Gurnasinghar	D7C 18	2021.gaurav.gurna						



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SUSTAINABLE DEVELOPMENT GOALS		Department Of Computer Engineering							
		Academic year 2022-23							
		Second Year Mini Project 1 - A (CSM 301)							
47	Manish Mulchandani	D7A 44	2021.manish.mulc	9623122494	Mrs. Prerna Solanke	Event Management System	Goal 8: Decent work and Economic growth	Product design and Development	
	Manan Dadlani	D7A 10	2021.manan.dadla						
	Swaraj Khadge	D7A 31	2021.swaraj.khadg						
	Mayuresh Sawant	D7A 51	2021.mayuresh.saw						
53	Aryan Girish Raje	D7A 70	d2021.aryan.raje@v	8104982720	Mrs. Prerna Solanke	Food Waste Donation System	Goal 2: Zero Hunger	Product design and Development	
	Arya Girish Raje	D7A 69	d2021.arya.raje@ve						
	Prasad Kishor Lahane	D7A 68	d2021.prasad.lahane						
48	Kalpana Gurnani	D7C 19	2021.kalpana.gurn	87673 21998	Mrs. Manisha Mathur	LocalBuddy	Goal 8: Decent work and Economic growth	Product design and Development	
	Manav Beri	D7C 08	2021.manav.beri@						
	Prerna Banswani	D7C 05	2021.prerna.bansw						
	Hiren Karwani	D7C 28	2021.hiren.karwan						
49	Anjali Agicha	D7B 1	2021.anjali.agicha	7719923750	Mrs. Manisha Mathur	E-HAAT	Goal 8: Decent work and Economic growth	Product design and Development	
	Rohit Galani	D7B 11	2021.rohit.galani@						
	Rishi Kathpal	D7B 21	2021.rishil.kathpal						
	Tanya Lilnai	D7C 36	2021.tanya.lilnai@						
54	Pratham karia	D7C 69	d2021.pratham.karie	9022297213	Mrs. Manisha Mathur	MyAssistant	Goal 8: Decent work and Economic growth	Product design and Development	
	Chirag Santwani	D7B 70	d2021.chirag.santwa						
	Nikhil Dhanwani	D7B 67	d2021.nikhil.dhanwa						
	Chirag Mangtani	D7C 67	d2021.chirag.mangt						
50	Karan Khatri	D7B 22	2021.karan.khatri@	7620682692	Mrs. Priti Joshi	Farmer Assistant	Goal 11: Sustainable cities and communities	Product design and Development	
	Nikhil Makhija	D7B 26	2021.nikhil.makhij						
	Prakash Meghani	D7B 29	2021.praakash.meg						

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Department Of Computer Engineering								
Academic year 2022-23								
SUSTAINABLE DEVELOPMENT GOALS								
Second Year Mini Project 1 - A (CSM 301)								
51	Hemanshu murpani	D7B 32	2021.hemanshu.m	9022328382	Mrs. Priti Joshi	Car Inventory store	Goal 11: Sustainable cities and communities	AI, Deep Learning and Data Warehousing and Mining
	Harshita Jawaharmala	D7C 26	2021.harshita.jawa					
	Dayaramani Aanchal	D7C 13	2021.aanchal.daya					
55	Neha Lotwani	D7C 71	d2021.neha.lotwani@	9307814480	Mrs. Priti Joshi	Web based Student Performance Analysis	Goal 4: Quality Education	AI, Deep Learning and Data Warehousing and Mining
	Dhara bhatia	D7C 69	d2021.dhara.bhatia@					
	Chiraag Chugh	D7C 68	d2021.chiraag.chugl					
	Sonnal Kamal Katara	D7C 66	d2021.sonnal.katara					
56	Kevin Patel	D7A - 67	d2021.kevin_patel@	9004010047	Mrs. Priyanka Shah	Smart Health consulting system	Goal 3: Good Health and well being	AI, Deep Learning and Data Warehousing and Mining
	M Kaif A Rajak Qureshi	D7A - 66	d2021.mkaif.qureshi					
	Krishnam Raja	D7A - 71	d2021.krishnam.raja					



*W. V. Joshi*  
Vivekanand



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2022-23

Department of Computer Engineering							
Academic Year: 2022-23							
T.E. Project Mentor Allocation							
Group No.	Group Members	Class	Avg.	Mentor	Yukta Challenge	Domain Name	Title of the Project
1	Manasi Shah	D12A	9.87	Dr. Mrs.Nupur Giri	Industry	Big Data Analytics and Machine Learning	Digital Forensics
	Riva Nadgire	D12A	10				
	Kaushik Sahasranaman	D12A	9.967				
	Chaitanya Sondur	D12A	10				
2	Japeet Rajput	D12C	9.95	Dr. Mrs.Nupur Giri + Mrs. Priti Joshi (Co-guide)	Industry	AI, Deep Learning & DWH Mining	Red Teaming and VAPT
	Yashvi Dhar	D12C	9.98				
	Anui Basad	D12C	9.76				
	Saniya Bhotwani	D12C	9.93				
3	Tarun Shetty	D12C	9.91	Dr. Mrs.Nupur Giri	Innovation	Networking, Security and Blockchain	Chainify - We believe in a world where barriers to real estate ownership are removed
	Om Sunil Borate	D12C	9.98				
	Divesh Mangtani	D12C	9.95				
	Sujal Javashree Patil	D12C	9.39				
4	Figo Cardozo	D12A	10	Dr. Mrs. Gresha Bhatia	Industry	AI, Deep Learning & DWH Mining	Mental Wellness - Mind Matters
	Om Madat	D12A	9.935				
	Drishiti Samvedi	D12B	9.96				
	Vansh Pahuja	D12A	10				
5	Yash Narkhede	D12B	9.83	Dr. Mrs.Gresha Bhatia	Inhouse	AI, Deep Learning & DWH Mining	Prediction of mental health based on social media with prescription audit.
	Aditva Nehete	D12B	9.94				
	Sanket Anand Jaiswal	D12B	9.96				
	Swapnil Umesh Sakpal	D12B	9.83				
6	Pranav Ulbarhande	D12A	9.58	Dr. Mrs.Gresha Bhatia + Mrs. Prerna (Co-Guide)	Inhouse	Product Design and Development	Digital Vikreta : A platform for local stores
	Harsh Lova	D12A	9.91				
	Harsh Patil	D12A	9.77				
	Viraj Joshi	D12A	9.75				
7	Isha Desai	D12A	10	Dr. Mrs. Sujata Khedkar	Inhouse	AI, Deep Learning & DWH Mining	Skin Cancer Recognition
	Jessica Lalchandani	D12A	10				
	Saniya Asrani	D12B	10				
	Trishala Jeswani	D12A	9.51				
8	Malhar Kajale	D12A	10	Dr. Mrs. Sujata Khedkar	Inhouse	AI, Deep Learning & DWH Mining	Court Cases Priority Scheduling
	Nimish Chidrawar	D12A	9.85				
	Rahul Motwani	D12A	9.78				
	Mohit Shahdadpuri	D12A	9.73				
9	Anish Nair	D12B	9.85	Dr. Mrs. Sujata Khedkar	Inhouse	Big Data Analytics and Machine Learning	Flash Flood Prediction
	Tanmay Damle	D12B	9.61				
	Harsh Deshmukh	D12B	9.65				
	Divyavi Kochharekar	D12B	9.84				



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# Vivekanand Education Society's Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

10	Piyush Nana Waghmare	D12A	9.45	Dr. Mrs.Sharmila Sengupta	Inhouse	Big Data Analytics and Machine Learning	Cardio Climatology
	Shreya Kukreja	D12A	9.87				
	Anurag Chatge	D12A	9.39				
	Varun Chawla	D12A	9.88				
11	Aavushi Salunkhe	D12C	9.95	Dr. Mrs.Sharmila Sengupta	Inhouse	Product design and development	Pehchan: A gender friendly E-learning Platform
	Aarva Lotke	D12C	9.95				
	Bhargav Munsekar	D12C	9.67				
	Nirajan Yeole	D12C	9.71				
12	Hrishikesh Patil	D12B	9.75	Dr. Mrs.Sharmila Sengupta	Innovation	Product design and development	ChainBank : Banking without Banks
	Varad Deshmukh	D12B	9.8				
	Dhananjay Pai	D12B	9.75				
	Tarang Rajpal	D12B	8.2				
13	Jasmine Dhirwani	D12B	10	Mr.Prashant Kanade	Inhouse	Product design and development	360 Degree Performance Analysis
	Tithi Ihannani	D12B	10				
	Nishtha Batra	D12B	9.87				
	Sakshi Bhoiwani	D12B	9.84				
14	Divya Makhija	D12A	9.85	Mr.Prashant Kanade	Inhouse	Product design and development	Career Buddy System
	Roshni Jaisinhani	D12A	9.95				
	Mohit Ganewani	D12A	9.92				
	Rahul Fatnani	D12C	9.97				
15	Divya Janvani	D12B	9.9667	Mr.Prashant Kanade	Inhouse	Product Design and Development	e-Pradaan- A Connectivity between Donor and Reciever
	Ritika Vanjarani	D12B	9.85				
	Sahil Kishnani	D12C	9.9233				
	Sagar Kishnani	D12A	9.9433				
16	Khushi Bhatia	D12C	9.67	Mrs. Rohini Temkar	Inhouse	AI, Deep Learning & DWH Mining	Heart Disease Prediction using ML
	Aditya mundas	D12C	9.43				
	Shubham Gupta	D12C	9.74				
	Surai Patel	D12C	9.97				
17	Sakshi Sanjaykumar Patil	D12C	9.97	Mrs. Rohini Temkar	Inhouse	Big Data Analytics and Machine Learning	Depression Analysis using ML
	Shalini Sanjay Mirani	D12C	9.837				
	Sivona Sunil Singh	D12C	8.33				
	Subail Rafique Shaikh	D12C	9.67				
18	Sachin Choudhary	D12C	9.98	Mrs. Geocey Shejy	Research	AI, Deep Learning & DWH Mining	Real Estate Cost Prediction
	Sahil Madhvan	D12C	9.934				
	Siddhant Kodolkar	D12C	9.93				
	Harsh Karira	D12C	9.83				
19	Sawant Athurva Nitin	D12C	10	Mrs. Geocey Shejy	Research	AI, Deep Learning & DWH Mining	"I-Detox" dealing with Internet Addiction
	Salvi Varun Milind	D12C	9.93				
	Chlodha Divesh Sunil	D12C	9.74				
	Chhabria Muskan Deepaklal	D12C	9.91				
20	Chitra Athani	D12C	9.85	Dr. Dashrath Mane	Inhouse	AI, Deep Learning & DWH Mining	Perception understanding: E-Commerce Product Evaluation
	Navin Idnani	D12C	9.35				
	Nikita Narwani	D12C	9.81				





# Vivekanand Education Society's Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

31	Bhavesh Bhatia	D12A	9.78	Mrs. Abha Tewari	Inhouse	AI, Deep Learning & DWH Mining	Financial Literacy Chatbot
	Gauri Naeral	D12A	9.89				
	Kritika Yadav	D12A	9.74				
32	Vanshika Thakur	D12C	9.59	Mrs. Abha Tewari	Inhouse	AI, Deep Learning & DWH Mining	Annapoorna-Food for all
	Manav Valecha	D12C	9.6				
	Deepali Duscia	D12C	9.8				
33	Sahil ramchandani	D12C	9.85	Mrs. Mannat Doultani	Research	Big Data Analytics and Machine Learning	Prediction of Road Accidents using Machine Learning
	Tanisha Patil	D12A	9.93				
	Sonal Belani	D12A	9.98				
34	Gautam Dinga	D12A	9.76	Mrs. Mannat Doultani	Research	Big Data Analytics and Machine Learning	Speech Emotion Recognition System
	Meera Sawantdesai	D12A	10				
	Ritika Hotwani	D12B	9.96				
35	Vivek Balani	D12B	9.76	Mrs. Pallavi Gangurde	Inhouse	Product design and development	Secure Voting System using Blockchain
	Prabha Pamula	D12B	9.93				
	Yash Pahlani	D12B	9.87				
36	Meet Chhabria	D12B	9.97	Mrs. Pallavi Gangurde	Inhouse	IoT, Robotics and Embedded Systems	Maths Guru - Digital Mathematics Game
	Muskan Behrani	D12B	9.81				
	Sakshi Shinde	D12B	9.99				
37	Kaustubh Kharche	D12B	9.93	Mrs. Nusrat Ansari	Research	Product design and Development	Lung Cancer Detection
	Reshoo Nehru	D12B	9.67				
	Sakshi Rane	D12B	9.55				
38	Ritika Bhat	D12B	9.73	Mrs. Nusrat Ansari	Research	Product design and Development	Breast cancer risk prediction using machine learning
	Rashav Partan Singh	D12B	9.49				
	Vedansh Udhawani	D12B	9.95				
39	Chirag Dodeja	D12C	9.94	Mrs. Sunita Suralkar	Innovation	Product design and Development	Bone Fracture Detection and Prevention
	Romesh Lulla	D12C	9.7				
	Sunay Bhatia	D12C	9.51				
40	Yash Nilesh Brid	D12B	9.74	Mrs. Sunita Suralkar	Research	Cloud Computing & High Performance Computing	AI model to study health effects of environmental factors
	Prem Tarun Chawla	D12B	9.87				
	Aditi Pradeep Salvi	D12B	9.61				
41	Atharva Mahesh More	D12B	9.87	Mr. Sanjay M	Inhouse	Product Design and Development	Image To Text and Speech Conversion Using Machine Learning
	Omkar Mahajan	D12B	9.8				
	Yash Kaka	D12B	9.8				
42	Denzil Puvathingal	D12B	9.28	Mr. Sanjay M	Inhouse	Product Design and Development	Image To Text and Speech Conversion Using Machine Learning
	Anish Mangani	D12B	9.94				
	Aditya Ketwani	D12C	9.14				
43	Jayesh Davalani	D12B	9.7	Mr. Sanjay M	Inhouse	Product Design and Development	Image To Text and Speech Conversion Using Machine Learning
	Dimple Madhwani	D12B	9.85				
	Gaurav Ambartani	D12C	9.53				
44	Yashkumar Kewlani	D12B	9.87	Mr. Sanjay M	Inhouse	Product Design and Development	Image To Text and Speech Conversion Using Machine Learning
	Atharva Malalle	D12B	9.24				
	Soham Bhole	D12B	9.77				



*[Signature]*

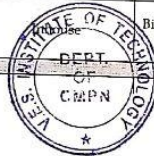
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21	Temana bhatia	D12C		Dr. Dashrath Mane	Research	AI, Deep Learning & DWH Mining	DDOS Attack Detection using Machine Learning
	Swapnil Thatte	D12C	9.44				
	Anishkumar Iver	D12C	9.93				
	Mihir Bhatkar	D12C	9.51				
	Siva Doshi	D12C	9.6				
22	Nausheen khan	D12C	10	Mrs. Vidya Zope	Inhouse	Product design and development	Harassment Monitoring System
	Saif sved	D12C	9.4				
	Sahil Talreja	D12C	9.74				
	Pratik Sawlani	D12C	9.39				
23	Neeraj Chawla	D12B	9.89	Mrs. Vidya Zope	Inhouse	AI, Deep Learning & DWH Mining	Auto mark-up code from Sketches
	Abhishek Chhabria	D12B	9.84				
	Avush Jain	D12B	9.95				
	Chaitanya Limave	D12B	9.84				
24	Priyosh Mondal	D12A	9.96	Mrs.Indu Dokare	Research	Big Data Analytics and Machine Learning	Melanoma Prognosis and Care
	Aditi Bhatia	D12A	9.8				
	Shrey Pancharia	D12A	9.8				
	Roshini Paniwani	D12A	10				
25	Nikhil Haswani	D12A	9.98	Mrs.Indu Dokare	Inhouse	Big Data Analytics and Machine Learning	Indian Stock Market Analyzer and Predictor using Machine Learning
	Nikkita Gurnani	D12A	9.98				
	Hitesh Ramrakhyani	D12A	9.72				
	Namrata Avhad	D12A	10				
26	Prathamesh Thakur	D12A	9.876	Mrs.Priya R.L	Inhouse	AI, Deep Learning & DWH Mining	Suraksha - Health Insurance Claim Analysis
	Shrevas Sawant	D12A	9.913				
	Harsharan Iver	D12A	9.96				
27	Tanav Thakare	D12B	9.89	Mrs.Priya R.L	Research	Networking, Security and Blockchain	'VERIFICATE': Leveraging Blockchain for certificate verification
	Tanav Phatak	D12B	9.59				
	Gautam Wadhvani	D12B	9.85				
	Teesha Karotra	D12B	9.85				
28	Gaurav Amarnani	D12A	9.91	Mrs Lifna.C.S + Manisha Mathur (Co-Guide)	Inhouse	AI, Deep Learning & DWH Mining	Dream Team Analyzer and Predictor for Fantasy Premier League
	Kesar Ichwani	D12A	9.78				
	Sakshi Shahdadpuri	D12A	9.66				
	Karlesh Mulechandani	D12A	9.65				
	Aarvan Manawat	D12A	9.87				
29	Utsav Gavli	D12A	9.81	Mrs Lifna.C.S	Innovation	AI, Deep Learning & DWH Mining	Virtual Race Strategy Engineer
	Kaustubha Sahu	D12A	9.4				
	Abhiman Singh	D12A	9.31				
	Ashutosh Mishra	D12C	9.55				
30	Sahil Nagdev	D12C	9.57	Mrs Lifna.C.S	Big Data Analytics and Machine Learning		InsureME: Your Personal Healthcare Companion
	Latin Ochari	D12C	9.62				
	Nishchay Rajpal	D12C	9.7				
	Yashraj Mulwani	D12A	9.83				



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# Vivekanand Education Society's Institute of Technology

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52	Eshwar Vazirani	D12B	9.61	Mrs. Veena Trivedi	Innovation	Product design and development	RestroConnect
	Divyansh Patel	D12B	9.76				
	Harsh Bakhtar	D12B	9.22				
	Mithil Wasrani	D12B	9.74				
53	Khusboo Kintani	D12C	9.93	Mrs. Prerna Solanke	Innovation	Image Processing, Virtual and Augmented Reality	Smart Music Player using Mood Detection
	Harsha Chelani	D12B	9.93				
	Vidhi Chitwani	D12B	9.96				
	Ritesh Tahilramani	D12B	9.86				
D12-A: 72							
D12-B: 72							
D12-C: 65							
Total : 209							





# Vivekanand Education Society's Institute of Technology

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		D12B		Learning			
42	Kapil Bhavnani	D12A	9.83	Mrs. Sujata Khandaskar	Inhouse	Product design and development	Gym Management System
	Jayesh Repale	D12A	10				
	Lavesh Julla	D12A	9.91				
	chetan bajai	D12A	9.71				
43	Vinit Patil	D12B	9.75	Mrs. Sujata Khandaskar	Inhouse	Product design and Development	House Price Prediction System using ML
	Chirag Paniwani	D12B	9.8				
	Deanna Fernandes	D12B	9.97				
	Prerna Bajai	D12B	9.84				
44	Sahil Dodeia	D12A	9.88	Mrs. Sunita Sahu	Innovation	Product Design and Development	Inclusive Education for Diverse Learning
	Neeta Narang	D12B	9.946				
	Gunjan Chhaproo	D12A	9.896				
	Vanshika Makhijani	D12A	9.9566				
45	Tanishq Harchandani	D12A	9.73	Mrs. Sunita Sahu	Inhouse	Product Design and Development	Sentimental Analysis of OYO Hotel Reviews
	Komal Chhutlani	D12B	9.93				
	Vansh Takrani	D12C	9.94				
	Arvan Motwani	D12A	9.43				
46	Mansi Bellani	D12C	9.85	Mrs. Sunita Sahu	Innovation	Networking, Security and Blockchain	Rating Humour Quotient in Standup Comedy
	Aavush Talreja	D12C	9.85				
	Harsh Rane	D12C	9.89				
	Sudhanshu Sabale	D12C	9.82				
47	Om Gole	D12B	9.78	Mrs. Yugchhaya G	Inhouse	Networking, Security and Blockchain	Decentralized Music Streaming Platform Using Blockchain
	Samarth Gawali	D12B	9.22				
	Pushkarai	D12B	9.59				
	Yash Sahane	D12B	9.9				
48	Karina Karira	D12A	9.956	Mrs. Pallavi Saindane	Inhouse	Product Design and Development	PocketGuide
	Simran Lahrani	D12A					
	Gayatri Talreja	D12A	9.883				
	Roshni Wadhvani	D12A	10				
49	Aavush Shritatho	D12A	9.89	Mrs. Pallavi Saindane	Inhouse	Product Design and Development	Jan-Seva-Bot
	Sahil Salunkhe	D12A	9.81				
	Abhavir Singh	D12A	9.74				
50	Hitakrit Goplani	D12A	9.91	Mr. Richard Joseph	Research	AI, Deep Learning & DWH Mining	Smart Wearable for Hearing Impaired
	Krish Mehta	D12A	9.9				
	Shruti Dalvi	D12A	9.96				
	Swara Nabar	D12A	9.85				
51	Vishakha Kulkarni	D12C	10	Mr. Richard Joseph	Research	AI, Deep Learning & DWH Mining	Cattle Tracking System
	Paraskumar Panchal	D12C	9.89				
	Madhura Mhatre	D12C	9.89				
	Ananva Pandev	D12C	9.75				



*Abh* *Rishi*



# **Vivekanand Education Society's Institute of Technology**

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(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

## **B 1. Sample Internship Completion Certificates**



# Vivekanand Education Society's Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)



Date: 23 January 2023

## INTERNSHIP COMPLETION CERTIFICATE

To Whom-so-ever It May Concern

This is to certify that **Hitakrit Goplani** has successfully completed a Remote Internship at Inventrom Private Limited - Bolt IoT for the duration of **Six Weeks**. During this duration, **Hitakrit** worked as IoT and ML Developer Intern and developed 2 projects(**Baby Monitor** and **Emergency Belt**).

We take this opportunity to thank **Hitakrit** and wish them all the best for their future.

For Inventrom Private Limited

Joyner Fernandes  
Human Resources Manager

To verify this certificate, please email us at [support@boltiot.com](mailto:support@boltiot.com) with the below code:  
**A311EB7947B58326476AD1A0C15286**

#79, First Floor, 5th main road, 11th cross road, Binnamangala, Stage 1, Indiranagar, Bengaluru - 560038  
Ph: 8881197198 E-mail: [contactus@inventrom.com](mailto:contactus@inventrom.com) Website: [www.boltiot.com](http://www.boltiot.com)



# Vivekanand Education Society's Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

## TeleNetworks Technologies Career Certification



This is to certify that,

*Mr. Shrey Panchamia*

has undergone seven days online training program at TeleNetworks  
Technologies Private Limited for **Hands-on Cyber Security Essentials**.

Date February 27, 2023



**Soni Saroj**  
Manager Technical Education

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# Vivekanand Education Society's Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

vesit website <vesit.website@ves.ac.in>

Fri, Jul 15, 2022 at 12:01 PM

To: 2020.aman.rajbhar@ves.ac.in, 2020.meera.sawantdesai@ves.ac.in

Dear Student,

Congratulations, you have been selected for an internship with VESIT Placement Website.

You would be requested to onboard into the Team with immediate effect. Kindly reply back to the mail with your consent and confirmation of your joining.

Then after the Website team will contact you for further course of action.

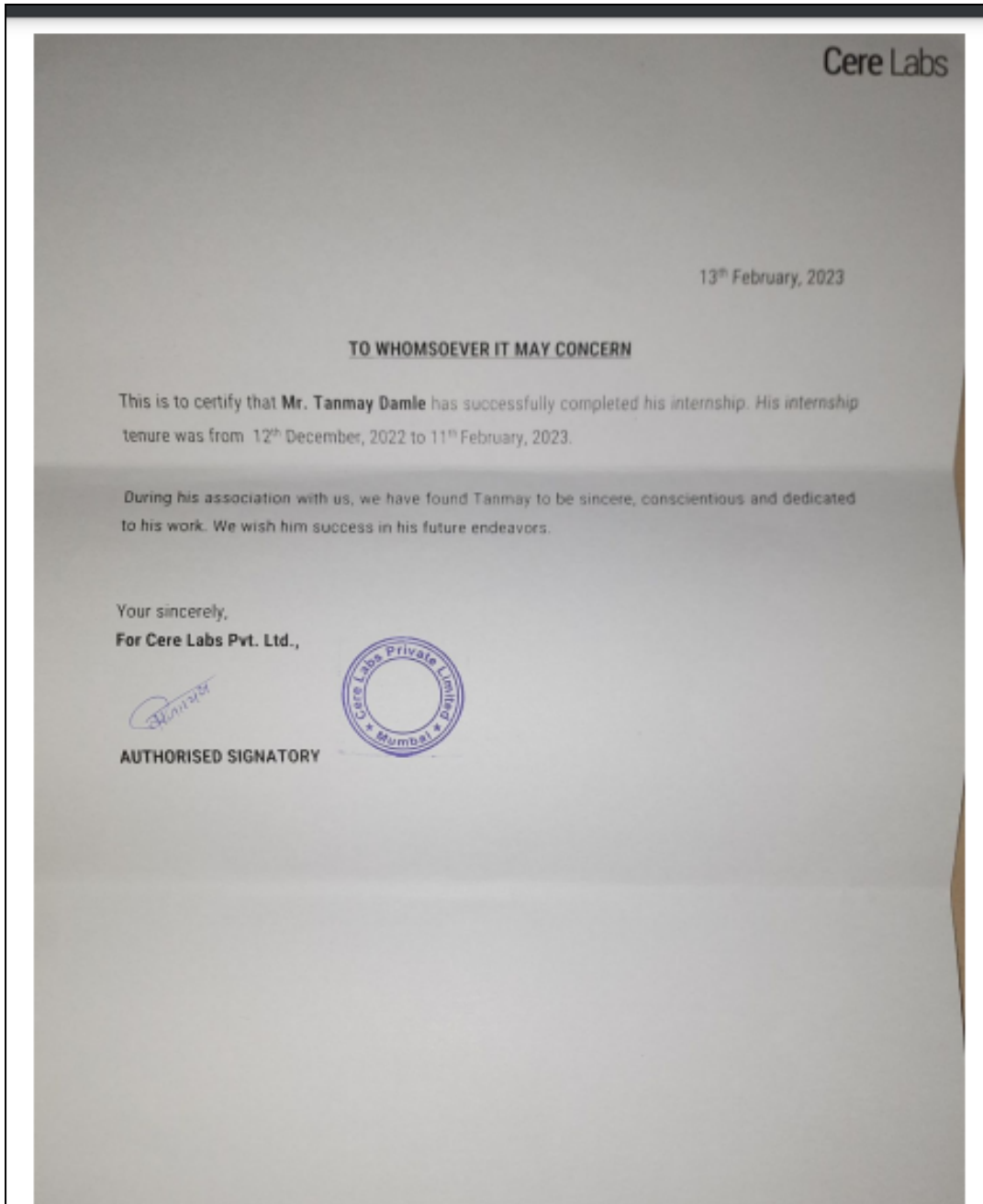
Regards,

VESIT Website Team



# Vivekanand Education Society's Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)





# Vivekanand Education Society's Institute of Technology

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(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

Morgan Stanley

July 29, 2022

To Whom It May Concern

Dear Sir/Madam

**Re: Maitryee Choudhary**

This is to confirm that Ms. Maitryee Choudhary was employed by the Morgan Stanley group of companies from May 30, 2022 to July 29, 2022. Prior to her departure, she was working in the capacity of an Intern in the Financial Risk Program and Production Engineering Technology Division in India.

It is our policy only to provide references containing information as to the employee's title and dates of employment. This should not be seen as implying any comment about the employee or her suitability for future employment.

Morgan Stanley does not accept any liability in relation to any reliance placed upon this reference by the recipient or any third party.

Yours Sincerely,  
**Morgan Stanley Advantage Services Private Limited**

Rajat Mathur  
Authorised Signatory  
Human Resources





# Vivekanand Education Society's Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)





# Vivekanand Education Society's Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)





# Vivekanand Education Society's Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

**TCR  
INNOVATION**

## CERTIFICATE OF INTERNSHIP

THIS CERTIFICATE IS AWARDED TO

**Navin idnani**

FOR COMPLETING THE INTERNSHIP PROGRAM ON  
**CORE JAVA + SQL IN TECHNICAL CODING RESEARCH INNOVATION**  
FROM 07TH JUNE 2022 - 09TH AUGUST 2022

TCR INNOVATION  
MAHARASHTRA, INDIA

TCR4R49  
CERTIFICATE CODE

If you have any questions or concerns, send us an email at [tcrinnovation@tcrinnovation.co.in](mailto:tcrinnovation@tcrinnovation.co.in)  
Verify at <https://verification.gemycertificate.com/v/caf661b-076-478-b18b-473053d3764>



# Vivekanand Education Society's Institute of Technology

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## JIO PLATFORMS LIMITED

CIN: U72900GJ2019PLC110816

11<sup>th</sup> August '2022

To Whomsoever It May Concern

Internship Completion Certificate

This is to certify that **Mr. Ashwin Kurup**, has successfully completed the Internship Program with Jio Platforms Limited, Mumbai from 6<sup>th</sup> June – 5<sup>th</sup> August '2022.

Ashwin has learnt the workings and gained an overview of Springboot. He has successfully developed a working model of diesel beat(Jio web app) using React js on the frontend. He has worked diligently and possesses the required skillsets any good software engineer must have. He has undergone the internship under the guidance of **Mr. Neelkamal Singh – DGM - Manager Development & Unit Testing**.

During his project work period, we found him very sincere and hardworking.

We wish him all the best for his future.

For Jio Platforms Limited,

Authorised Signatory

Registered Office: Office - 101, Saffron, Nr. Centre Point, Panchwati 5 Rasta, Ambawadi, Ahmedabad -380006, Gujarat, India.  
Tel no: 079-35031200

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# **Vivekanand Education Society's Institute of Technology**

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(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

## **B 2-Sample Field Project Completion Certificates**



# Vivekanand Education Society's Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

(2022-23)  
VIVEKANAND EDUCATION SOCIETY'S  
INSTITUTE OF TECHNOLOGY

Department of Computer Engineering



## CERTIFICATE of Approval

This is to certify that MANASVI PATWA, BHAVIKA CHATTANNI, VARNIT BATHEJA, SAHIL DESHMUKH of Fourth Year Computer Engineering studying under the University of Mumbai has satisfactorily presented the project on "Activity Monitoring and Unusual Activity Detection for Elderly Homes" as a part of the coursework of PROJECT-I for Semester-VII under the guidance of Mrs. Geocey Shejy in the year 2022-2023.

11/11/22  
Date

Geocey  
Internal Examiner

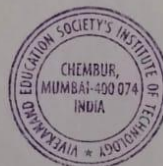
Prataps  
External Examiner

Geocey  
Project Mentor  
Mrs. Geocey Shejy

Nupur  
Head of the Department  
Dr. Mrs. Nupur Giri

Jayesh  
Principal

Dr. J. M. Nair  
PRINCIPAL,  
VIVEKANAND EDUCATION SOCIETY'S  
INSTITUTE OF TECHNOLOGY  
HASHU ADVANI MEMORIAL COMPLEX,  
COLLECTOR'S COLONY, CHEMBUR, 2  
MUMBAI-400 074, INDIA.





# Vivekanand Education Society's Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

23

## VIVEKANAND EDUCATION SOCIETY'S INSTITUTE OF TECHNOLOGY

Department of Computer Engineering



Project Report on

### Activity Monitoring and Unusual Activity Detection for Elderly Homes

In partial fulfillment of the Fourth Year (Semester-VII), Bachelor of Engineering  
(B.E.) Degree in Computer Engineering at the University of Mumbai  
Academic Year 2022-2023

**Project Mentor :** Mrs. Geocey Shejy

**Submitted by**

Manasvi Patwa D17C 47  
Bhavika Chattani D17C 12  
Sahil Deshmukh D17A 17  
Varnit Batheja D17A 08



# Vivekanand Education Society's Institute of Technology

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## B 3-Sample Mini Project Completion Certificates





# Vivekanand Education Society's Institute of Technology

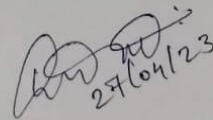
(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

VIVEKANAND EDUCATION SOCIETY'S INSTITUTE  
OF TECHNOLOGY  
Department of Computer Engineering



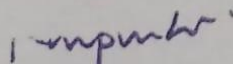
## CERTIFICATE

This is to certify that the Mini Project entitled “**Digital Mathematics Game**” is a bonafide work of **Reshoo Nehru(48)**, **Sakshi Rane(59)**, **Ritika Bhat(08)**, **Raghav Partap(65)** submitted to the University of Mumbai in partial fulfillment of the requirement for the award of the degree of “**Bachelor of Engineering**” in “**Computer Engineering**” .

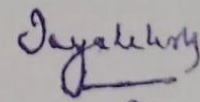
  
27/04/23

(Prof. Pallavi Gangurde)

Mentor

  
(Prof. Nupur Giri)  
Head of Department





PRINCIPAL,  
VIVEKANAND EDUCATION SOCIETY'S  
INSTITUTE OF TECHNOLOGY  
HASHU ADVANI MEMORIAL COMPLEX,  
COLLECTOR'S COLONY, CHEMBUR,  
MUMBAI-400 074, INDIA.

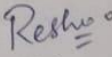


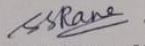
# Vivekanand Education Society's Institute of Technology


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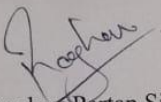
## Declaration

We declare that this written submission represents our ideas in our own words and where others' ideas or words have been included, we have adequately cited and referenced the original sources. We also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in our submission. We understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

  
(Reshoo Nehru - 48)

  
(Sakshi Rane - 59)

  
(Ritika Bhat - 08)

  
(Raghav Partap Singh - 65)

Date: 27-04-23



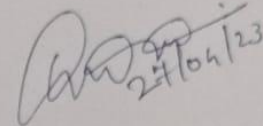
# Vivekanand Education Society's Institute of Technology

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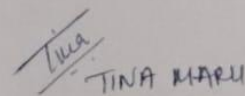
## Mini Project Approval

This Mini Project entitled "Digital mathematics Game" by Reshoo Nehru(48), Sakshi Rane(59), Ritika Bhat(08), Raghav Partap Singh(65) is approved for the degree of Bachelor of Engineering in Computer Engineering.

### Examiners

  
21/04/23

Prof. Pallavi Gangurde  
(Internal Examiner Name & Sign)

  
TINA MARU

2.....  
(External Examiner name & Sign)

Date: 21-04-23

Place: Mumbai



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## **C 1-Sample Communications & Reports -Internships**



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**TCR  
INNOVATION**

## CERTIFICATE OF INTERNSHIP

THIS CERTIFICATE IS AWARDED TO

**Navin idnani**

FOR COMPLETING THE INTERNSHIP PROGRAM ON  
**CORE JAVA + SQL IN TECHNICAL CODING RESEARCH INNOVATION**  
FROM 07TH JUNE 2022 - 09TH AUGUST 2022

  
TCR INNOVATION  
MAHARASHTRA, INDIA



TCR4R49  
CERTIFICATE CODE

If you have any questions or concerns, send us an email at [tcinnovation@tcinnovation.co.in](mailto:tcinnovation@tcinnovation.co.in)  
Verify at <https://verification.gyanvartificate.com/v/aaaf661b-0769-47b-446b-473d53836e4>



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## Abstract:

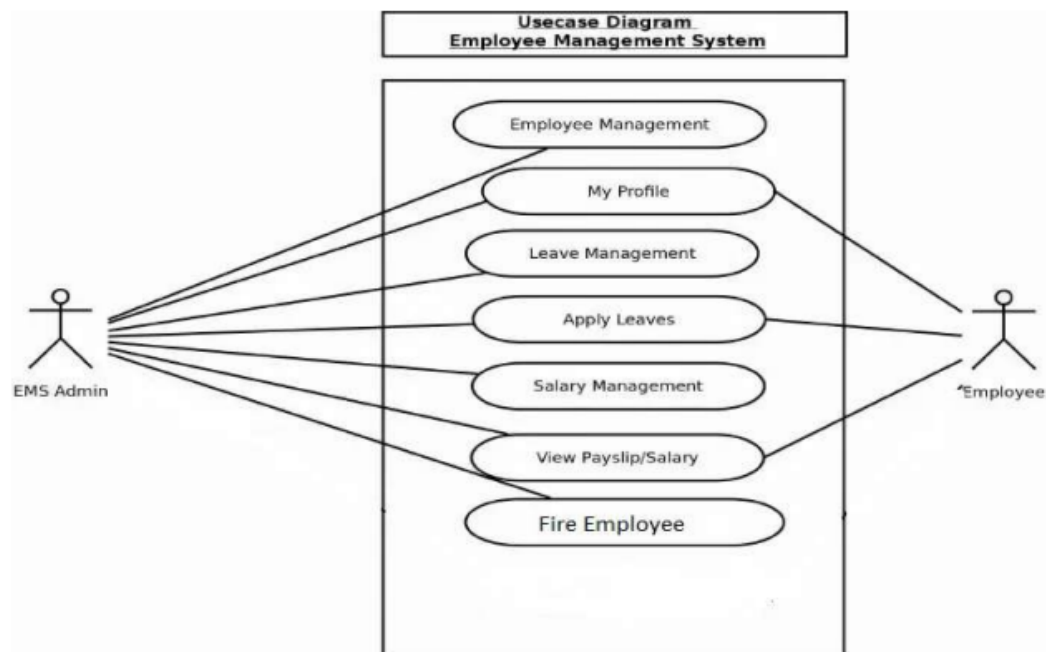
In this world of growing technologies everything has been computerized. With a large number of work opportunities the Human workforce has increased. Thus there is a need for a system which can handle the data of such a large number of Employees in an organization. This project simplifies the task of maintaining records because of its user friendly nature.

The "EMPLOYEE MANAGEMENT SYSTEM" has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and in some cases reduce the hardships faced by this existing system. Moreover this system is designed for the particular need of the company to carry out operations in a smooth and effective manner. The application is reduced as much as possible to avoid errors while entering the data. It also provides an error message while entering Invalid data. No formal knowledge is needed for the user to use this system. Thus by this all it proves it is user-friendly.

## Aim:

The main aim of the system is to computerize the maintenance of the employee details and leave sections in the company. It also includes the details about the employee's personnel. To develop a well-designed database to store employee information. Provides full functional reports to management of the company.

## Model Used:





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## Output:





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Employee Home Page  
Profile Manage Attendance Leave Salary Exit **Delete**

### Add Employee

#### New Employee details

Name	Perry	Father's Name	Tiwari
Age	20	Message	34-05-0
Address	Delhi		9501450
Email Id	Perry0@gmail.com	Education	[Redacted]
Job Post	Front end developer	Aadhar No	958574851253
Employee Id	004		

Message: Details Successfully inserted !!

Type here to search

Employee Home Page  
Profile **Manage** Attendance Leave Salary Exit **Delete**

## Complete Profile

**View Profile**

# Management System

## (EMS)

Activate Windows  
Go to Settings to activate Windows.

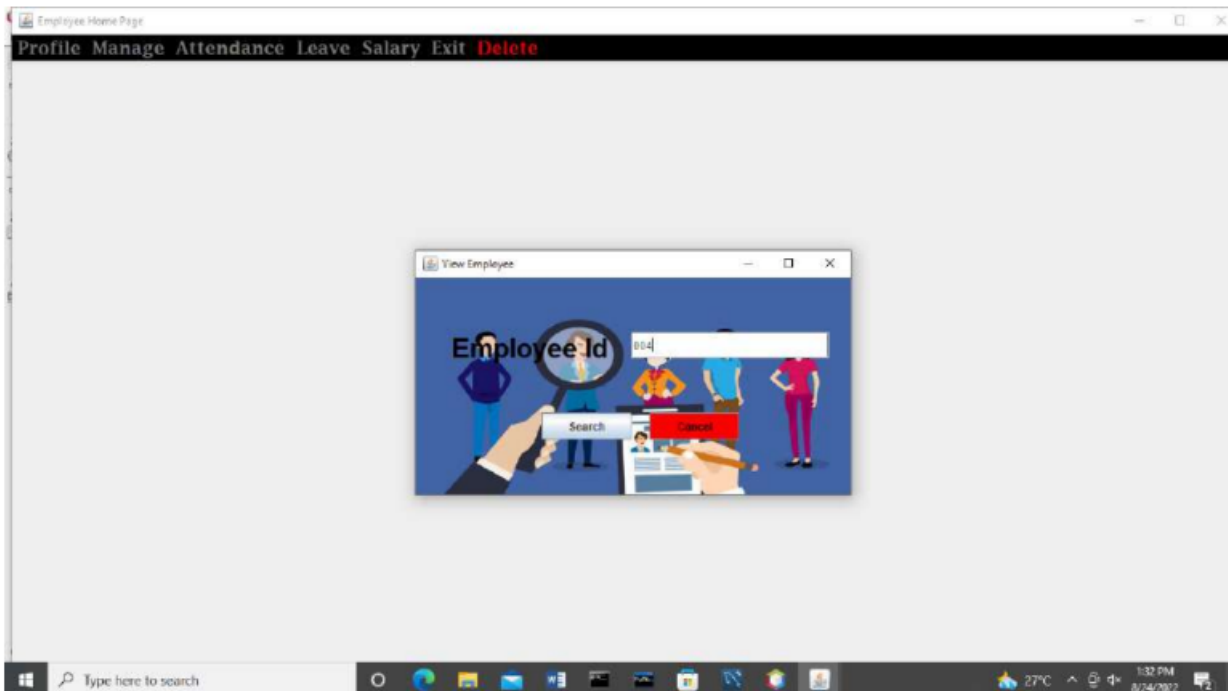
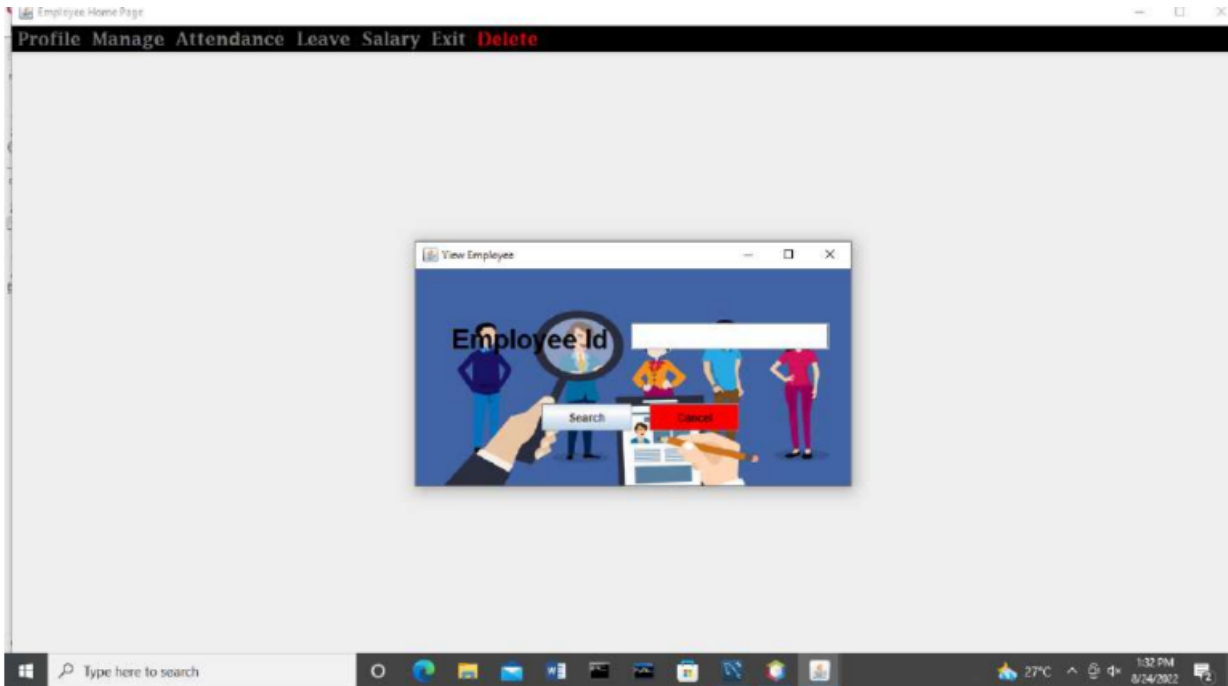
Type here to search





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Profile Manage Attendance Leave Salary Exit **Delete**

Display Employee Details

### Employee Details:

Employee ID:	004
Name:	Perry
Father's name:	Trevon
Address:	Delhi
Mobile No:	7496581450
Email Id:	Perry0@gmail.com
Education:	graduated
Job Post:	Front end developer

Type here to search 27°C 1:32 PM 8/24/2022

Employee Home Page

Profile Manage Attendance Leave Salary Exit **Delete**

## Update Details

# Employee Management System (EMS)

Activate Windows  
Go to Settings to activate Windows.

Type here to search 27°C 12:41 AM 8/25/2022



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## JIO PLATFORMS LIMITED

CIN: U72900GJ2019PLC110816

11<sup>th</sup> August '2022

To Whomsoever It May Concern

Internship Completion Certificate

This is to certify that **Mr. Ashwin Kurup**, has successfully completed the Internship Program with Jio Platforms Limited, Mumbai from 6<sup>th</sup> June - 5<sup>th</sup> August '2022.

Ashwin has learnt the workings and gained an overview of Springboot. He has successfully developed a working model of diesel beat(Jio web app) using React js on the frontend. He has worked diligently and possesses the required skillsets any good software engineer must have. He has undergone the internship under the guidance of **Mr. Neelkamal Singh - DGM - Manager Development & Unit Testing**.

During his project work period, we found him very sincere and hardworking.

We wish him all the best for his future.

For Jio Platforms Limited,

Authorised Signatory



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## SUMMER INTERNSHIP 2022 REPORT

01/06/2022 - 15/07/2022



IIT PALAKKAD

### Case Study on Machine Learning Algorithms for Satellite Image

#### Classification

Aashish R. Raheja

IIT Palakkad Summer Internship 2022

under

Dr. Deepak Jaiswal  
(HOC & Assistant Professor)

Environmental Sciences and Sustainable Engineering Centre



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## ● INTRODUCTION :

Technological innovations are the driving force behind advancements of all industries across the world. Amongst the technologies Data Science is playing a major role for advancement of industries . According to [1] data science is defined as an interdisciplinary field that uses scientific methods, processes, algorithms and systems to extract knowledge and insights from noisy, structured and unstructured data, and apply knowledge from data across a broad range of application domains. Data science is related to data mining, machine learning and big data. Machine Learning, a part of Data Science, has various applications such as Sentiment analysis, Image Classification, Prediction of trends in different industries, Speech Recognition etc. Machine Learning is mainly divided into 2 categories: Supervised Learning and Unsupervised Learning.

According to [2] Supervised Learning is defined as the type of machine learning in which machines are trained using well "labelled" training data, and on the basis of that data, machines predict the output. The labelled data means some input data is already tagged with the correct output. Examples of Supervised Learning algorithms are, Decision Tree, Random Forest etc. According to [3], Unsupervised Learning is defined as , unsupervised learning is a machine learning technique in which models are not supervised using a training dataset. Instead, models itself find the hidden patterns and insights from the given data. Examples of Unsupervised Learning algorithms are K-Means clustering, Neural Networks etc. One of the major applications of Machine Learning is



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image classification. Image classification is a type of classification in which components or the whole image can be uniquely identified by a machine. Image classification has many applications in fields such as medical, remote sensing, traffic analysis, autonomous driving etc.

One of the major applications of image classification is in remote sensing. According to [4], Satellite images have many applications in meteorology, oceanography, fishing, agriculture, biodiversity conservation, forestry, landscape, geology, cartography, regional planning, education, intelligence and warfare. An important aspect of satellite image classification is to identify land use by using land cover classification. Various Machine Learning and Deep Learning techniques have been used for classification of Land cover. Land use classification is done by creating a dataset of a geographical location by dividing it into a number of classes and then classifying a new area using the pixel values for different types of bands obtained in the original dataset. Existing work in this domain is done by various methods such as [5] have done classification of satellite imagery by developing CNN models and thus segmented image of the original data is produced according to classes. In [6] a comparative study is done for two methods for image classification namely Maximum Likelihood for supervised classification and ISODATA clustering for unsupervised classification.

Our work aims to do a comparative study to evaluate the accuracy of Machine Learning models for classification of satellite image data. The dataset for



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testing and training is prepared from scratch and after preprocessing the models are trained to evaluate performance. Algorithms implemented include Random Forest, Support Vector Classifier, Decision Tree, Gaussian Naive Bayes Classifier, XgBoost Classifier and Stochastic Gradient Descent.

## ● **STUDY AREA :**

The study area is selected from the state of Kerala in India and has coordinate boundaries as follows:

Upper left - 76.537812 10.861687 Decimal Degrees.

Upper right - 76.780173 10.861447 Decimal Degrees.

Lower left - 76.537812 10.692130 Decimal Degrees.

Lower right - 76.780412 10.692370 Decimal Degrees.



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## ● DATA USED :

In order to perform image classification of satellite images, a sample raster of a geographical location is obtained using the USGS website [7] . This raster consists of LANDSAT-8 data. The data to be classified consists of 6 bands and has a GeoTIF file format.

The data on which the model is trained and built is created using Google Earth . This data is in .shp format or also called a shapefile. It is a polygon shapefile which consists of 103 polygons and each polygon has a class assigned to each for classification. The classes present are : Vegetation, Agriculture Land, Water Body, Settlement ,Rocky Region , Barren Land.

The base raster for classification is (Fig-1) :



Fig-1



The Shapefile used for training is : (Fig-2)

OID_	Name	FolderPath	SymbolID	AllMode	Base	Clamped	Extruded	Snippet	PopupInfo	Shape_Leng	Shape_Area	geometry
0	S11	Shapfiles_Palakkad.kmz/Shapfiles	0	0	0.0	-1	0	None	None	0.002974	4.866600e-07	POLYGON Z (176.64307 19.78823 0.00000, 76.6427...
1	S12	Shapfiles_Palakkad.kmz/Shapfiles	0	0	0.0	-1	0	None	None	0.001681	1.746305e-07	POLYGON Z (176.64757 19.78760 0.00000, 76.6476...
2	S13	Shapfiles_Palakkad.kmz/Shapfiles	0	0	0.0	-1	0	None	None	0.001720	1.306187e-07	POLYGON Z (176.64098 19.77907 0.00000, 76.6411...
3	S14	Shapfiles_Palakkad.kmz/Shapfiles	0	0	0.0	-1	0	None	None	0.006752	7.587605e-07	POLYGON Z (176.64527 19.77772 0.00000, 76.6452...
4	S15	Shapfiles_Palakkad.kmz/Shapfiles	0	0	0.0	-1	0	None	None	0.003190	4.005603e-07	POLYGON Z (176.64123 19.77975 0.00000, 76.6414...

Fig-2

Shapefile Representation : (Fig-3)



Fig-3

Polygons can be seen in Yellow colour.



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## ● METHODOLOGY :

### 1. DATA PREPROCESSING :

The first part of the project focuses on data pre-processing and handling of raw data so that it can be fed into the model.

In order to improve the pixel strength of some of the classes in our base raster, we calculated three indexes namely Normalised Difference Built-up Index (NDBI) , Normalised Difference Water Index (NDWI), and Normalised Difference Vegetation Index (NDVI). Using Python and GDAL a new raster was formed by stacking the array values of the Original raster ,NDBI,NDWI and NDVI (Fig-4).

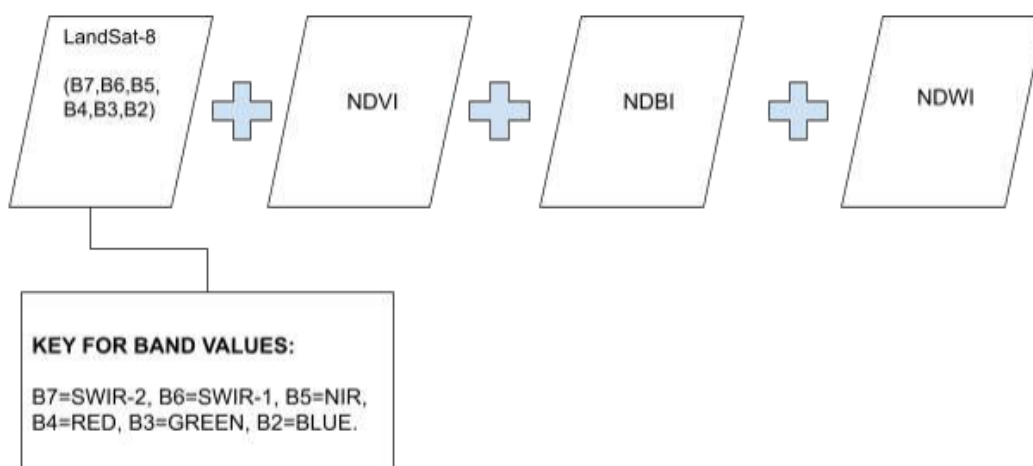


Fig-4



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Now, all the processing is done on the original raster. Consider 6 bands+NDVI NDWI+NDBI stacks. GDAL was used to read Raster data to get its attributes like height, width, Number of bands etc,. Each individual band was read as an array using the GDAL library and the shape of array was 3D in the form of (Number of bands, Rows, Columns) (Fig-5).

In Order to feed data into the model we needed a 2D array, so conversion of the shape of the array for each band was done. The new shape is ((rows\*columns),NumberBands).

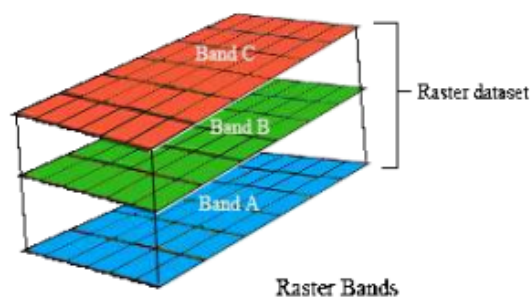


Fig-5

The original raster contains certain aspects such as its Coordinate Reference System, Projection information , Bounds of the raster etc which is accessed using the Python GDAL Library.



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## 2. MODEL TRAINING:

In order to train our models, first some processing and handling of data is done.

### STEPS :-

>The raster is read again using GDAL, the shape is again converted from (Number of bands, Rows, Columns) to ((rows\*columns),Number of Bands).

> Then a pandas dataframe is created from the array as shown in Fig “ 6“

	0	1	2	3	4	5
0	302.364929	537.864929	401.364929	2980.864990	1630.364868	826.364929
1	336.913452	596.413452	493.913452	2714.413574	1711.913452	991.413452
2	348.931793	609.431763	528.431763	2471.431885	1623.931763	986.931763
3	291.872223	535.872253	416.372223	2749.872314	1429.372192	725.872253
4	306.911499	568.911499	487.411499	2853.911377	1844.911499	980.911499

Fig “ 6“ - Pandas Dataframe

>Now how shape file is handled:

- The original shapefile is received when it is read using geopandas as shown in Fig-7.



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OID_	Name	FolderPath	SymbolID	AltMode	Base	Clamped	Extruded	Snippet	PopupInfo	Shape_Leng	Shape_Area	geometry	
0	0	St1	Shapefiles_Palakkad.kmz/Shapefiles	0	0	0.0	-1	0	None	None	0.002974	4.866600e-07	POLYGON Z ((76.64307 10.78823 0.00000, 76.6427...
1	0	St2	Shapefiles_Palakkad.kmz/Shapefiles	0	0	0.0	-1	0	None	None	0.001681	1.746305e-07	POLYGON Z ((76.64757 10.78760 0.00000, 76.6476...
2	0	St3	Shapefiles_Palakkad.kmz/Shapefiles	0	0	0.0	-1	0	None	None	0.001720	1.386187e-07	POLYGON Z ((76.64098 10.77907 0.00000, 76.6411...
3	0	St4	Shapefiles_Palakkad.kmz/Shapefiles	0	0	0.0	-1	0	None	None	0.006752	7.587605e-07	POLYGON Z ((76.64527 10.77772 0.00000, 76.6452...
4	0	St5	Shapefiles_Palakkad.kmz/Shapefiles	0	0	0.0	-1	0	None	None	0.003190	4.005603e-07	POLYGON Z ((76.64123 10.77975 0.00000, 76.6414...

Fig-7

The above geopandas dataframe consists of 103 rows, i.e it contains 103 polygons.

- b. In 103 polygons, each polygon consists of varying numbers of coordinates, when accessed using a loop add up to 1674 points.
- c. Then the geometry of the shapefile is changed to point by extraction of coordinates using geopandas and mapping them to the same index.
- d. Using the rasterio library the original raster values are read and then extraction of band values is done for every coordinate and a separate data frame for band values is created.
- e. Then Point data frame and band dataframe are concatenated together to give our original dataset.



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f. Since data categories for general classes are named with numbers like St1,St2, etc, these all are then converted into general categories like St,Vg etc.

g. Model Training:

- Now, our training dataset looks like (Fig-8):

Name	Shape_Leng	Shape_Area	geometry	band1	band2	band3	band4	band5	band6	
0	St	0.002974	4.866600e-07	POINT (76.64307164300004 10.788226620000046)	654.013916	858.013916	944.013916	2036.513916	2422.013916	2185.013916
1	St	0.002974	4.866600e-07	POINT (76.64277901900005 10.78838195000003)	609.496826	835.496826	869.996826	2122.496826	2043.496826	1787.996826
2	St	0.002974	4.866600e-07	POINT (76.64298855100003 10.788809429000025)	734.508606	1019.008606	1162.008545	2219.008545	2567.508545	2153.508545
3	St	0.002974	4.866600e-07	POINT (76.64307477100004 10.788927469000043)	734.508606	1019.008606	1162.008545	2219.008545	2567.508545	2153.508545
4	St	0.002974	4.866600e-07	POINT (76.64321036300004 10.788880423000023)	845.011780	1124.011841	1210.511841	2114.011719	2666.511719	2429.011719

Fig-8

- Our dependent variable is Name and independent variables are band1,band2,band3,band4,band5 and band6.
- Since our Name column is of type string and model cannot classify string values, we need to encode them using a library from sklearn known as label encoder.
- After encoding (Fig-9):

Name	Shape_Leng	Shape_Area	geometry	band1	band2	band3	band4	band5	band6	Number_Name	
0	St	0.002974	4.866600e-07	POINT (76.64307164300004 10.788226620000046)	654.013916	858.013916	944.013916	2036.513916	2422.013916	2185.013916	3
1	St	0.002974	4.866600e-07	POINT (76.64277901900005 10.78838195000003)	609.496826	835.496826	869.996826	2122.496826	2043.496826	1787.996826	3
2	St	0.002974	4.866600e-07	POINT (76.64298855100003 10.788809429000025)	734.508606	1019.008606	1162.008545	2219.008545	2567.508545	2153.508545	3
3	St	0.002974	4.866600e-07	POINT (76.64307477100004 10.788927469000043)	734.508606	1019.008606	1162.008545	2219.008545	2567.508545	2153.508545	3
4	St	0.002974	4.866600e-07	POINT (76.64321036300004 10.788880423000023)	845.011780	1124.011841	1210.511841	2114.011719	2666.511719	2429.011719	3

Fig-9

- Now for fitting or training the model, we use the Sklearn library to split the dataset in a train:test ratio of 80:20.



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- Therefore from the shapefile dataframe, we select the dependent and independent variable columns and train our model respectively and then classify our original raster using its band values dataframe.
- After fitting of the model and then classifying the original raster, we get the classes in the form of an array, we change the shape of the array into (rows\*columns) because we need to plot it and write it again on a new GeoTIFF file.
- This operation is carried out using the GDAL library, and CRS, Projections and other attributes are obtained from the original raster.

> A graph is drawn from data collected from [8], which shows which algorithms are used for satellite image classification (Fig-10).

Keywords used for searching were : Satellite Image Classification and Algorithm Name :-

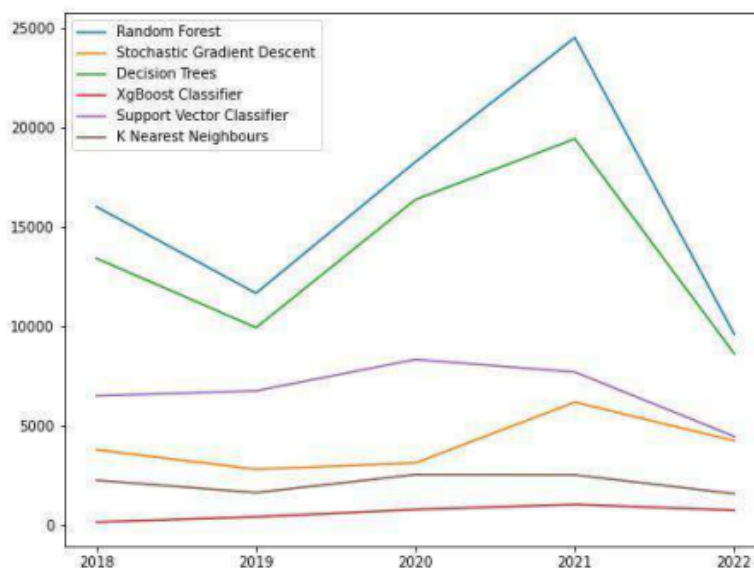


Fig - 10



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- **RESULTS :**

Here is a sample classified result from XgBoost Classifier (Fig-11):

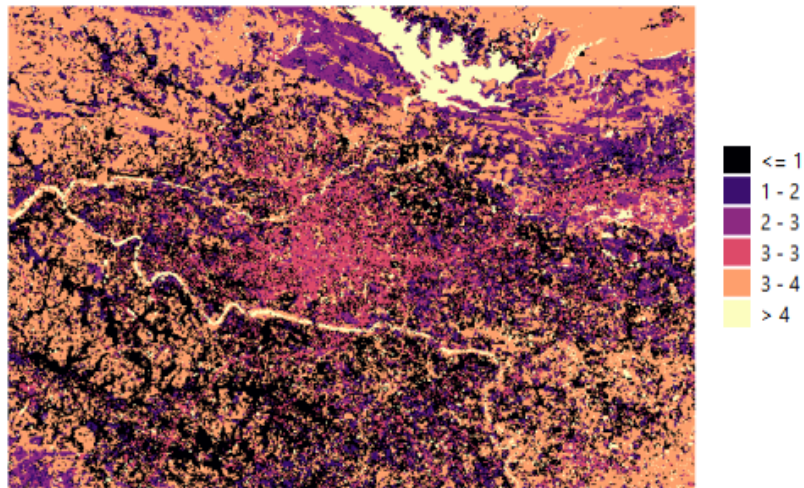


Fig-11

Agriculture : <=1 , Barren : 1-2 , Rocky : 2-3 , Settlement : 3 , Vegetation :  
3-4 , Wetland : >4





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6. Ahmad, A., & Quegan, S. (2013). Comparative analysis of supervised and unsupervised classification on multispectral data. *Applied Mathematical Sciences*, 7(74), 3681-3694.
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## **C 2-Sample Communications & Reports-Field Project**



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**Certificate of Industrial Project from Industry**

  
शासकीय दंत महाविद्यालय व रुग्णालय, मुंबई  
GOVERNMENT DENTAL COLLEGE AND HOSPITAL, MUMBAI.  
सेंट जॉर्ज रुग्णालय आवार, पी. डी. मेल्लो रोड, फोर्ट, मुंबई - ४०० ००१  
St. George's Hospital Compound, P.D. Mello Road, Near CST Station, Fort, Mumbai - 400 001  
Phone: 022-22620668 Email: deangdch\_mumbai@yahoo.com Website: www.gdc Mumbai.org

Ref. No. 90/23 Date: 12/01/2023

**LETTER OF COLLABORATION**  
Between  
Government Dental College and Hospital, Mumbai,  
Maharashtra  
And  
Vivekanand Education Society's Institute of Technology, Chembur, Maharashtra

This Letter of Collaboration is designed to foster a friendly relationship through mutual cooperation in teaching and research between Government Dental College and Hospital, Mumbai, Maharashtra and Vivekanand Education Society's Institute of Technology, Chembur, Maharashtra. No financial obligations are assumed under this collaboration.

Government Dental College and Hospital and Vivekanand Education Society's Institute of Technology have reached agreement on the following areas of cooperation, subject to mutual consent and the availability of sufficient funding:

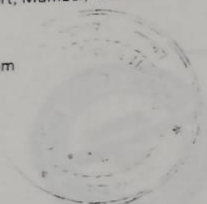
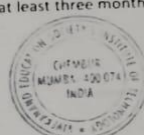
- Joint research activity entitled 'Grading of Oral Pre cancer on histopathological sections using Artificial Intelligence'
- Student exchange for research and study

The terms of such mutual assistance and funding for any specific program and activity shall be mutually discussed and agreed upon before initiation of a particular program/activity. No consent, or waiver of terms of this Letter of Collaboration shall bind either party unless in writing and signed by all parties. Any such amendment, consent, or waiver shall be effective only in the specific instance and for the specified purpose given.

This Letter of Collaboration shall be in effect unless terminated in writing. Either party may terminate this Letter by written notification signed by the appropriate official of the institution initiating the notice. However, such notification must be received by the other party at least three months prior to the effective date of termination.

Dean  
Government Dental College & Hospital,  
St. George's Hospital, P.D. Mello Road Fort, Mumbai, 400001.  
Phone: 022-22620668  
E-mail - deangdchmumbai@yahoo.com

Principal,  
Vivekanand Education Society's Institute of  
Technology  
RASHTRIYANI MEMORIAL COMPLEX,  
COLLECTOR'S COLONY, CHEMBUR,  
MUMBAI-400081, INDIA  
Phone: 022-25508310  
Email: vesit@vsnl.com





# Vivekanand Education Society's Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

VIVEKANAND EDUCATION SOCIETY'S INSTITUTE OF  
TECHNOLOGY  
Department of Computer Engineering



Project Report on

## Using Histopathological Images to Grade Oral Pre Cancer

In partial fulfillment of the Fourth Year, Bachelor of Engineering (B.E.) Degree in  
Computer Engineering at the University of Mumbai Academic Year 2022-23

### Submitted by

Akhil Chakkungal (D17 - B , Roll no - 12)  
Palak Garg (D17 - B , Roll no - 17)  
Samita Kanojia (D17 - B , Roll no - 25)  
Riya Shukla (D17 - B , Roll no - 56)

### Project Mentor

Dr. Sharmila Sengupta  
Associate Professor, Computer Engineering Department  
(2022-23)



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TECHNOLOGY  
Department of Computer Engineering



## Certificate

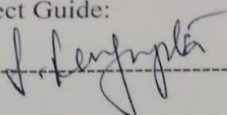
This is to certify that *Akhil Chakkungal, Palak Garg, Samita Kanojia, Riya Shukla* of Fourth Year Computer Engineering studying under the University of Mumbai have satisfactorily completed the project on "*Using Histopathological Images to Grade Oral Pre Cancer*" as a part of their coursework of PROJECT-II for Semester-VIII under the guidance of their mentor *Dr. Sharmila Sengupta* in the year 2022-23 .

This thesis/dissertation/project report entitled *Histopathological Image based Oral Cancer Grading using Machine learning* by *Akhil Chakkungal, Palak Garg, Samita Kanojia, Riya Shukla* is approved for the degree of *B. E (Computer Engineering)*.

Programme Outcomes	Grade
PO1,PO2,PO3,PO4,PO5,PO6,PO7, PO8, PO9, PO10, PO11, PO12 PSO1, PSO2	Q

Date: 26/04/23

Project Guide:





# **Vivekanand Education Society's Institute of Technology**

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## **C 3-Sample Reports-Mini Project**



# Vivekanand Education Society's Institute of Technology

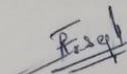
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## Letter of Acceptance

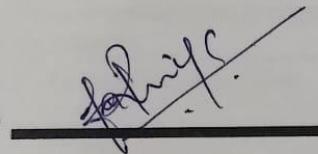
I undersigned Prof **Mr. Richard Joseph** working in the Computer Engineering department, willing to guide the project titled **Timetable Management System** for the mini project-I Semester III/IV respectively for the academic year 2022-23.

The names of the students are:

1. Amogh Inamdar(16)
2. Attreyee Mukherjee(31)
3. Yashodhan Sharma(52)
4. Saumya Tripathi(58)

  
Richard Joseph

(Project Guide)

  
\_\_\_\_\_

(Mini Project Coordinator)

  
\_\_\_\_\_

(HOD Computer)



# Vivekanand Education Society's Institute of Technology

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## INSTITUTE VISION & MISSION

### **Vision:**

To create a vibrant knowledge oriented environment with innovative teaching practices and to inculcate a tradition of socially conscious application of technology.

### **Mission:**

- To inculcate a culture of value based education.
- To enthuse students to develop in an ambient environment of caring and of sharing information.
- To enable students to work towards excellence in their chosen field with a professional bent of mind.

## DEPARTMENT OF COMPUTER ENGINEERING

### **Vision:**

To create a center of excellence in computing by imparting quality education for developing competent professionals.

### **Mission:**

- To provide an enabling environment through excellence in teaching & learning to contribute towards industry and society.
- To promote and strengthen interdisciplinary approach in innovation, creativity and research.
- To facilitate productive employment and higher studies with entrepreneurial attitude and professional ethics.





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**SCHEDULE FOR MINI PROJECT**

Date	Week	Contents	Remark	Guide Sign
07/1/2023	1	Understood the techstack and made changes to the UI.	Took months to just understand the DB design	
13/02/2023	2	Understanding CRUD operations	Took months to just understand the DB design	
25/01/2023	3	Understanding CRUD operations	Took months to just understand the DB design	
30/01/2023	4	Changing database from django to MySQL	Took months to just understand the DB design	
7/02/2023	5	Completed CRUD operations	Took time to understand Django	
09/02/2023	6	Solved the error in the database	Took time to understand Django	
19/2/2023	7	BuzzPro Paper Presentation Competition Discussion	Took time to understand Django	
27/02/202	8	Started understanding the genetic algorithm	Prototype ready but not as per the requirements	
13/03/202	9	Started implementing Genetic algorithm	Prototype ready but not as per the requirements	
20/03/2023	10	Started implementing Backtracking algorithm	Working on algorithms but not implemented yet	
31/03/2023	11	Errors faced during the backtracking and genetic algorithm	Working on algorithms but not implemented yet	



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6	09/02/2023	✓	✓	✓	✓	Solved the error in the database	CO4	PO1,PO2, PO6	PSO1 ,PSO2
7	10/02/2023	✓	✓	✓	✓	Review 1	CO7	PO1,PO2, PO4	PSO1 ,PSO2
8	19/2/2023	✓	✓	✓	✓	BuzzPro Paper Presentation Competition Discussion	CO6	PO1,PO2, PO3	PSO1 ,PSO2
8	27/02/2023	✓	✓	✓	✓	Started understanding the genetic algorithm	CO5	PO1,PO2, PO5	PSO1 ,PSO2
9	01/03/2023	✓	✓	✓	✓	Understanding Backtracking algorithm	CO7	PO1,PO2, PO6	PSO1 ,PSO2
10	13/03/2023	✓	✓	✓	✓	Started implementing Genetic algorithm	CO8	PO1,PO2, PO7	PSO1 ,PSO2
11	16/03/2023	✓	✓	✓	✓	Started implementing Backtracking algorithm	CO1	PO1,PO2, PO8	PSO1 ,PSO2
12	20/03/2023	✓	✓	✓	✓	Buzzpro technical paper presentation	CO2	PO1,PO2, PO9	PSO1 ,PSO2
13	31/03/2023	✓	✓	✓	✓	Errors faced during the backtracking and genetic algorithm	CO3	PO1,PO2, PO8	PSO1 ,PSO2
14	05/04/2023	✓	✓	✓	✓	Errors faced in backend and database	CO2	PO1,PO2, PO9	PSO1 ,PSO2

*[Signature]*  
Sign of the Supervisor



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## STUDENT INFORMATION

Project Title: Timetable Management System

	Student 1	Student 2	Student 3	Student 4
UID/ERP NO				
Roll no	31	16	58	52
Name	Attreyee Mukherjee	Amogh Inamdar	Saumya Tripathi	Yashodhan Sharma
Class & Division	D7B	D7B	D7B	D7B
Contact No.	9930205268	9820278765	8779413994	7977603846
E-mail	2021.attreyee.mukherjee@ves.ac.in	2021.amogh.inamdar@ves.ac.in	2021.saumya.tripathi@ves.ac.in	2021.yashodhan.sharma@ves.ac.in
Address	Dhankuber CHS	1201, Cosmos Tower	C-12 Yamuna	Sai Kinara, B-101
	Plot number 127, Nerul, Navi Mumbai	OPP. Golden Park, near Majiwada Flyover	Western Sector, Anushaktinagar	Plot Number A8, Sector-19, Koparkhairane
		Thane(W), 400601	B.A.R.C colony	Navi Mumbai-400709
			Mumbai-400094	

### INSTRUCTIONS TO STUDENTS:

1. The logbook must be submitted to the Guide or Co-Guide for verification and evaluation of project activities at least once in a week.
2. Log books duly signed by the guide must be submitted with a project report for evaluation at the end of semester to the department.



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## DECLARATION

I declare that this project represents my ideas in my own words and wherever others' ideas or words have been included, I have adequately cited and referenced the original sources. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my project work. I promise to maintain minimum 75% attendance, as per the University of Mumbai norms. I understand that any violation of the above will be cause for disciplinary action by the Institute.

Yours Faithfully,

1. Amogh Inamdar(16) *Amogh Inamdar*
2. Attreyee Mukherjee(31) *Attreyee Mukherjee*
3. Saumya Tripathi(58) *Saumya Tripathi*
4. Yashodhan Sharma(52) *Yashodhan Sharma*

(Signature of Students)