
BRIHANMUMBAI MAHANAGARPALIKA
B. Y. L. NAIR CH. HOSPITAL & T. N. MEDICAL COLLEGE
DEPARTMENT OF PSYCHIATRY
CENTRE FOR LEARNING DISABILITY
Dr. A. L. Nair Road, Mumbai - 400 606. Tel: 022-2362 7689



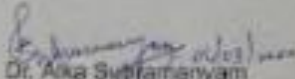
Date: 4th March 2020

To whomsoever it may concern

This is to certify that the following students :

1. Kalpesh Bhole (D12B/11)
2. Tanishqa Shetty (D12B/60)
3. Tamanna Saini (D12B/55)
4. Anuraj Bhosale (D12A/14)

Of Computer Engineering Department of VESIT are implementing a project in collaboration with B.Y.L Nair Ch. Hospital with the title "AI for Accessibility: Detection of Dyscalculia using ML Version 2.0" under the guidance of Dr. Nupur Giri (VESIT) and Dr. Alka Subramanyam (Nair Hospital) and Dr. Swati Shelke (Nair Hospital)


Dr. Alka Subramanyam
Associate Professor
Dept. Of Psychiatry
T.N.M.C & B.Y.L Nair ch Hospital

DR. ALKA A. SUBRAMANYAM
Reg. No. 2009/02/1356
Associate Professor
Department of Psychiatry
T.N.M.C. & B.Y.L. Nair Ch. Hospital,
Dr. A. L. Nair Rd., Mumbai Central
Mumbai-400 606.

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




Certificate

This is to certify that *Tanishqa Shetty, Tamanna Saini, Kalpesh Bhole, Anuraj Bhosale* of Third Year Computer Engineering studying under the University of Mumbai have satisfactorily completed the mini project on “**AI FOR ACCESSIBILITY: DETECTION OF DYSCALCULIA USING ML VERSION 2.0**” as a part of their coursework of Mini Project for Semester-VI under the guidance of their mentor **Dr. Nupur Giri** in the year 2019-2020.

This mini project report entitled **AI FOR ACCESSIBILITY: DETECTION OF DYSCALCULIA USING ML VERSION 2.0** by *Tanishqa Shetty, Tamanna Saini, Kalpesh Bhole, Anuraj Bhosale* is approved for the degree of **Bachelor of Engineering (Computer Engineering)**

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

Date: *September, 2020.*

Project Guide: *Dr. Mrs. Nupur Giri* 

Abstract

Dyscalculia is one of the common learning difficulties that can cause problems with solving math problems and a difficulty in grasping mathematical concepts throughout the day to day life of the patient. Unlike a learning disability, intelligence isn't affected. Dyscalculia is a lifelong problem that can present challenges on a daily basis, but support is available to improve one's skills and help those with the problem be successful at school and work and to help them to be able to grasp the required concepts in a much easier manner.

Our project focuses on detecting dyscalculia using the power of Artificial Intelligence. It will help and ease the load doctors have . AI can be used to detect this disability in an easier manner; as AI is self learning, it will improve each time it is used and thus is an ideal way to help people with disabilities.

Artificial intelligence (AI) in healthcare is the use of complex algorithms and software to emulate human cognition in the analysis of complicated medical data. Specifically, AI is the ability for computer algorithms to approximate conclusions without direct human input. Artificial intelligence (AI) research within medicine is growing rapidly. Thus, we can use Artificial Intelligence(AI) to make it easier to detect this disability.