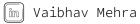
Vaibhav Mehra

AI Developer and Human Brain Enthusiast











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EXPERIENCE

AIIMS, DELHI | RESEARCH INTERN

January 2022 - Present | Delhi

- → Working on sMRI and fMRI scans of MDD and BP disorder patients.
- → Learned segmentation and volumetric analysis of brain with 93% accurate results.
- → Working in a research dedicated environment.

SAMMASATI COCINA | ALINTERN

May 2021 - June 2021 | Remote

- → Worked on 2 big data analysis projects and API development for third party usage.
- → Completed Fraud Detection API on Django framework with 91.8% Accuracy.
- → Churn Analysis of Insurance Company reducing loss of customer by 2%.

PROJECTS

NANOCARRIERS AND TREATMENT OF MDD | COMPUTATIONAL NEUROLOGY

Mar 2021 - Dec 2021

- → Examined various Pathologies of MDD and understanding the role of NMDA in it.
- → Figured out the nanocarriers and NMDA antagonists which can be used,
- → Created the Computational Simulation of the working of proposed antidepressant.

STUDY OF HUMAN DECISION MAKING | NEUROLOGY/PSYCHOLOGY

Jan 2021 - Sept 2021

- → Studied the various Hypothesis of Human Decision Making.
- → Worked on a mathematical model for the same.
- → Bifurcated different brain parts on the basis of role they play in decision making.

MYVIRTUALSTREAM | WEB DEVELOPMENT

May 2020 - Sept 2020

- → MyVirtualStream is a Flask powered web application which utilizes the capabilities of FFmpeg to bring about a 24/7 Streaming scheduler similar to those that are used by TV channels.
- → It's capable of modifying videos and scheduling them to stream over RTMP.

MY ML LIBRARY | ARTIFICIAL INTELLIGENCE

March 2020 - Present

- → This Github Repository contains most of my Al and ML projects.
- → It includes Q learning based game AI, Neural Network based cancer detecting model and Al model to detect depression and other Al models created by me.

OTHERS

PORTFOLIO AND CERTIFICATES

→ All the project descriptors and certificates related to the projects done and internships successfully fulfilled as well as other certificates can be found here.

EDUCATION

UNIVERSITY OF DELHI

B.TECH IN IT & MI July 2019 - Present | Delhi, India Cluster Innovation Centre Marks: 9.34 / 10.0

VARDHAMAN SHIKSHA **MANDIR**

AISSCE XII, SCIENCE March 2019 | Delhi, India Percentage: 95%

SKILLS

PROGRAMMING

Experienced:

C • C++ • Python • JavaScript • Perl • MATLAB • PHP SQL • CSS • HTML • Shell • **Typescript**

Familiar:

R • Julia • Java • Dart • Golang

LIBRARIES/FRAMEWORKS

Tensorflow • Pytorch • sci-Kit Keras • PyGame

Cordova • Node.js • Django • Flask • Flutter • React • Laravel

TOOLS/PLATFORMS

SPM • BrainSuite • FSL • Free Surfer • Discovery Studio • AutoDock • Amber • LAMMPS

Git • Webpack • Heroku Wordpress • Docker • Firebase • Apache/Nginx • FFmpeg

REFERENCES

Dr. Uma Sharma, Professor, Department of NMR, AIIMS □ umasharma69@gmail.com

Dr. Mahima Kaushik, Professor, University of Delhi