

Vaibhav Mehra

AI Developer and Human Brain Enthusiast



veb7vmehra



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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 | AI INTERN

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 AI and ML projects.
- It includes Q learning based game AI, Neural Network based cancer detecting model and AI model to detect depression and other AI 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
• Rust

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

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University of Delhi

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