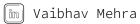
# Vaibhav Mehra

# AI Developer and Human Brain Enthusiast











7827291102

# **EXPERIENCE**

# MINISTRY OF ELECTRONICS & IT | RESEARCH INTERN

March 2022 - Present | Delhi

- → Working on Digital Forensics to detect changes in existing Document.
- → Developed Specialised Scanning Technique for Document Registration.
- → Worked on Fine Tuning of OCR to improve results by 35%.

# 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.

# 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 Al, Neural Network based cancer detecting model and AI model to detect depression and other AI models created by me.

# **OTHERS**

#### PORTFOLIO AND CERTIFICATES

→ I am a Five Star Codechef Coder and Have Worked on lot more Projects and Courses which can be found out on my Website..

# **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