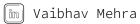
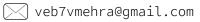
# Vaibhav Mehra

# AI Developer and Human Brain Enthusiast











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#### **EXPERIENCE**

#### UNIVERSITY OF COLORADO | RESEARCH INTERN

June 2022 - Present | Remote

- → Working on the novel field of Evolutionary Neuropsychology.
- → Analysing the Archaeological Data through Computational Techniques.
- → Understanding the working of Different Brain regions and their behavioral importance.

#### CYPSI LABORATORY | AI RESEARCH INTERN

July 2022 - Present | Delhi

- → Working over Generic Decision making Al Pipeline.
- → Developing Emotional Understanding using Transformers.
- → Creating chatbot replies based over the emotional understanding developed.

#### AIIMS, DELHI | RESEARCH INTERN

January 2022 - May 2022 | Delhi

- → Worked on sMRI and fMRI scans of MDD patients.
- → Standardized the Protocol for Volumetric Segmentation over MDD Patients.
- → Worked in a research dedicated environment.

## **PROJECTS**

## ROLE OF SOCIAL MEDIA CAMPAIGNS IN INDIAN ELECTIONS | DATA ANALYSIS

Jan 2022 - April 2022

- → Pre Poll and Post Poll Tweet Analysis regarding UP 2022 Elections.
- → Calculated the Net Hate Index for the Elections.
- → Developed a generalized pipeline which can be used to analyze dynamics of any Poll.

#### 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.

#### 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 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 Internships and Projects 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 • SciPy • 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

mkcic2122@gmail.com