

Vaibhav Mehra

AI Developer and Human Brain Enthusiast



veb7vmehra



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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 AI 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 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

- 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
• Rust

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

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Dr. Mahima Kaushik, Professor,
University of Delhi

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