

Vaibhav Mehra

AI Developer and Human Brain Enthusiast



veb7vmehra



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EXPERIENCE

UNIVERSITY OF COLORADO | RESEARCH INTERN

June 2022 - September 2022 | 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.

PUBLICATIONS

SIMULATION OF NANOCARRIER BASED TARGETED ANTIDEPRESSANT DELIVERY MECHANISM | Mehra V., SIRKAR N., BISWAL B AND KAUSHIK M.

Under Review. Molecular Simulation

PROJECTS

SOCIAL ANALYSIS OF DEATH | NATURAL LANGUAGE PROCESSING

Aug 2022 - Present

- A novel emotional tagging of Final Statements of Texas Criminals before execution.
- With BERT used for semantics we classify the deaths.

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.

MY ML LIBRARY | ARTIFICIAL INTELLIGENCE

March 2020 - Present

- This Github Repository contains most of my AI and ML projects.

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

Prof. Frederick L. Coolidge,
Professor, Psychology
Department, UCCS

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Dr. Uma Sharma, Professor,
Department of NMR, AIIMS

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