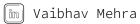
Vaibhav Mehra

AI Developer and Human Brain Enthusiast











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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 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.

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 Al 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

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

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

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