Vaibhav Mehra

AI Developer and Human Brain Enthusiast

veb7vmehra | veb7vmehra | Vaibhav Mehra | veb7vmehra@gmail.com | 7827291102

Experience

BCBL SPAIN | Guest Researcher
Jan 2023 – Present | Remote
- → AI based Surreal Image dataset generation.
- → Understanding human response to Surreal Images through EEG signals.

CYPSI LABORATORY | AI Research Intern
July 2022 – Present | Delhi
- → Working over Generic Decision making AI Pipeline.
- → Developing Emotional Understanding using Transformers.

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.

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.

Publications

SIMULATION OF NANOCARRIER BASED TARGETED ANTIDEPRESSANT DELIVERY MECHANISM | **Mehra V.**, Sirkar N., Biswal B and Kaushik M.
Under Review. Molecular Simulation

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.

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
✉ fcoolidg@uccs.edu

Dr. Uma Sharma, Professor, Department of NMR, AIIMS
✉ umasharma69@gmail.com