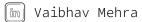
# Vaibhav Mehra

# AI Developer and Human Brain Enthusiast











7827291102

# **EXPERIENCE**

**BCBL SPAIN** | GUEST RESEARCHER

Jan 2023 - Present | Remote

- → Al based Surreal Image dataset generation.
- → Understanding human response to Surreal Images through EEG signals.

## CYPSI LABORATORY | AI RESEARCH INTERN

July 2022 - Feb 2023 | Delhi

- → Worked over Generic Decision making Al Pipeline.
- → Developed Emotional Understanding in NLP model 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.

Accepted, Molecular Simulation

# **PROJECTS**

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

- → 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

□ umasharma69@gmail.com