

SOUMYAJIT BEHERA

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EXPERIENCE

Machine Learning Intern - Omdena

June 2020 – August 2020

Understanding the Sentiments and Aspirations of Young People:

- Assembled the data from various social media platforms using Twitter, Reddit. Interpreted the collected text using word-clouds and various plots.
- Utilized the data to find the issues using Topic Modelling and Building models using LSTM, BERT to predict the sentiments of the youth.

PROJECTS

AI For Social Good

Link:- Github

- Developed a model to identify suicide ideation in cyberspace by **natural language processing** methods that we're able to classify user's posts with potential suicide and without suicidal risk.
- Used various text processing techniques, **machine learning(Random Forest)**, and **deep learning(LSTM)** based methods to achieve an accuracy of 97%.

Plant AI

Links:- Github Website

- Performed Leaf Image classification for recognition of plant diseases using images of leaves.
- Trained the model with leaf images using multiple types of **CNN** architecture and **Transfer Learning (VGG-19 and Resnet)** to achieve an accuracy of 98%.
- Integrated the model with a web server using **Flask** and deployed it to Heroku.

Editor.io

Links:- Github Website

- Build an **online code editor** for **HTML, CSS, and JS** code snippets and an **online markdown editor** using **react.js**.
- Added features like live preview and automatic saving of modifications utilizing **browser local storage**.

Classification model for EEG Signals (Research Work)

- Created a model for the classification of EEG signals to predict valence and arousal. Applied various transformations like FFT, Wavelet Transform, and STFT to extract features and ml techniques like ANN, SVC, and CNN to train the model.

EDUCATION

Birla Institute Of Technology, Mesra

2018 – 2023

IMSC Maths And Computing CGPA: 7.6/10 (Till 5th Sem)

SKILLS

Strongest Areas: Data Structures, Algorithms, Deep Learning, NLP, Web Development

Languages: C++(Intermediate), Python(Basic), Javascript(Basic)

Tools and Frameworks: React.js, Express.js, PyTorch, Tensorflow, Keras, Scikit-Learn, Git

Database: MongoDB

Platforms: Vercel, Heroku

ACHIEVEMENTS

- The highest rating in Codechef is 1571 and the current rank in Hacker Rank is 15965.
- Top 10 teams among 50 teams in Code Break 1.0 hackathon conducted by MIT WPU, Pune.
- Present among top 25 students in Student Code In (Open Source Program).

ADDITIONAL EXPERIENCE

Pantheon-2019 (Technical Fest of BIT Mesra)

- Worked as a web developer on designing the front end of the website using **Bootstrap, CSS, and, Javascript**.

Bitotsav-2020 (Cultural Fest of BIT Mesra)

- Contributed as a web developer on designing the front end of the website using **Bootstrap, Javascript**, and developing **Rest APIs** for user registrations using **Express.js**.