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 built models applying LSTM, BERT to predict the sentiments of the youth.

PROJECTS

Chatify - Realtime Chat Application

Links:- Github Website

• Built a personal chat room like discord to share resources and hangout with friends using **React.js** and **Firebase**.

• Added **Google authentication** and used **Firebase** to store data and for **real-time communication** among the users.

Plant AI

Links:- Github Website

• Performed Leaf Image classification for recognition of plant diseases.

• Used leaf images to train a model applying multiple types of **CNN** architecture, **Transfer Learning (VGG-19 and Resnet)** and attained an accuracy of 98%. Integrated the model with a web server using **Flask** and deployed it to Heroku.

Editor.io - Online Code Editor

Links:- Github Website

• Built 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.**

AI For Social Good

Link:- Github

• Developed a model to identify suicide ideation in cyberspace applying **natural language processing** methods that was able to classify user's posts with potential suicidal risk.

• Used various text processing techniques(**TF-IDF**), **machine learning(Random Forest)**, and **deep learning(LSTM)** based methods to train the model and achieved an accuracy of 97%.

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, Web Development, Deep Learning, NLP

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

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

Database: MongoDB, Firebase

Platforms: Vercel, Heroku

ACHIEVEMENTS

• The Highest rating achieved on Leetcode is 1640 and on Codechef is 1571.

• Present among top 10 teams among 50 teams in Code Break 1.0 hackathon conducted by MIT WPU, Pune.

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.**

• Worked on developing **Rest APIs** for user authentication using **Express.js.**