Soumyajit Behera

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Experience

Junior ML Engineer (Omdena) June 2020 - August 2020

- 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.

Education

Birla Institute of Technology Ranchi, India
IMSC Maths and Computing *GPA: 7.6 (Till 5th sem)* July 2018 - May 2023

Projects

AI for social good *PyTorch, Tensorflow, Flask, NLTK, Scikit-Learn*
Developed a model applying **Natural Language Processing**, **Deep Learning(LSTM), and Machine Learning(Random Forest and Naive Bayes)** to predict if a social media post of a person is associated with conditions such as **Suicidal Ideation or Depression** or other mental health conditions.

Plant-AI *PyTorch*
Github Link:- https://github.com/soumyajit4419/Plant_AI
Performed Leaf **Image classification** for Recognition of Plant Diseases using multiple types of **CNN** Architecture and **Transfer Learning (VGG-19 and Resnet)** with an accuracy of 98%, For the detection of Infected Leaf from healthy leaves and consequently helping the increase in crop yield.

Face Recognition and Emotion Detection *Tensorflow, Keras, OpenCV*
Github Link:- https://github.com/soumyajit4419/Face_And_Emotion_Detection
Developed a model applying **image classification** to grayscale images using multilayer **CNN** for the detection of various **human emotions**. And utilizing **OpenCV** to **recognize the face** and using the model to predict the emotions.

Emotion Recognition from EEG Signals (Research Work) *PyTorch, EEG Signals*
Build a model for **Emotion Classification** from **EEG Signals**. Applied several transforms like **FFT** and **Wavelet Transform** on amigos data-set to extract features from **EEG Signals** and Applied methods like **ANN**, **SVC**, and **CNN** for classifications of emotions.

Other Projects *Express.js, Node.js, React.js*
Build a **Web Server** for making **health care** facilities easier for **Patients and Doctors**.Used **Tesseract OCR** for the extraction of important data from medical reports. Used **Express.js** for Storing them securely in **MongoDb** and displaying them graphically.

Programming Skills

Strongest Areas:	Algorithms, Data Structures, Deep Learning, Web Development
Languages:	C++, Python(Basic)
Tools & Frameworks:	PyTorch, NLTK, Tensorflow, Git, Express.js, Node.js, React.js
Database:	MongoDB
Platforms:	Vercel, Heroku

Extracurricular Activities

Pantheon-2019 (Technical Fest of BIT Mesra) Web Developer
Worked on creating the frontend-end of the website using Bootstrap, **Javascript**.

Bitotsav-2020 (Cultural Fest of BIT Mesra) Web Developer
Operated on developing the frontend end of the website using Bootstrap, **Javascript** and building **Rest APIs** using **Node.js**.

Rank's and Achievement's

Current Rank in Hacker Rank 15965.

Current Rank in Spoj 17827.

Code Break 1.0 Top 10 teams among 50 teams.

InOut-7.0 Top 10 Performer

Hack-A-Bit-2019 Participant