

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 with respect to time and various other factors that affect the change of sentiments of youth.
- 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: 7.1 (Till 4th 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

Performed Leaf **Image classification** for Recognition of Plant Diseases using multiple types of **CNN** Architecture and **Transfer Learning (VGG-19 and Resnet)**, 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

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

PyTorch, EEG

Build a model for **Emotion Detection** from **EEG Signals**.

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 backend 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 Performer

Hack-A-Bit-2019 Participant