Santanu Kumar

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EDUCATION

Veermata Jijabai Technological Institute　　　　　　　　　　Mumbai, India | 2019-2023(expected)
BTech in Electronics and Telecommunication

Atomic Energy Central School-4　　　　　　　　　　　　　　　　Mumbai, India | 2017-2019
HSC | 92.2%

WORK EXPERIENCE

Crux Intelligence (Fractal Analytics)　　　　　　　　　　Mumbai, India | June 2022 – Aug 2022
Data Science intern

- Worked on the question completion feature of their **data informatics product**.
- Generated **training data** by converting the available raw data into interim templates and **upsampling** them.
- Used the **Hugging Face** library to fine-tune the **Transformer model (GPT-2)** for natural language generation, and evaluated the results using the **Perplexity score** and **n-gram overlapping analysis.**
- Performed regular cleaning and outlier removal on the training data to align with the client's requirements.

PROJECTS

TWITTER-SENTIMENT-ANALYSIS ↗　　　　　Natural Language Processing,Sentiment Analysis
Apr 2022 – May 2022
A webapp built to display the sentiments of people regarding any events happening in the world.Cleaned and analysed the incoming tweets, used **textblob** to extract their sentiment,converted them into vectors using **TF-IDF** and fed them into 3 models(**Naive Bayes,SVM** and **Logistic Regression**) to compare their accuracy.

AI COVID DETECTOR ↗　　　　　　　　　　　　Deep learning,Transfer learning, Flask
Jan 2022 – Feb 2022
Deployed a **flask** webapp for detection of Covid-19 in patients from **Chest Radiography Images(X-RAYS)** using **Xception CNN Architecture** with over **95%** accuracy.

MOVIE RECOMMENDATION SYSTEM ↗　　　　Machine Learning,Python,Recommender systems
Oct 2021 - Nov 2021
Used TMDB dataset of over 5000 movies,preprocessed and created representations using **BOW** and built a **webapp** using to display movie recommendations based on **content based filtering** using **cosine similarity**.

DATA ANALYSIS PROJECTS ↗　　　　　　　Exploratory Data Analysis,Data Visualization
Apr 2021 – Jan 2021
Performed **exploratory data analysis** on 6 different datasets to gain useful insights into the data.Used **predictive ML models** like **SVM** and **XGBoost** to suggest solutions to problems presented e.g **Churn Prediction,Loan Defaulting**.

SKILLS

Interests: Machine Learning • Data Science • Deep Learning • Blockchain • Opensource
Languages: Python • SQL
Frameworks: Scikit-learn • Numpy • Pandas • Flask • Tensorflow • Hugging Face
Familiar: C++ • Web3 • React • OpenCV • HTML/CSS • NoSQL • Solidity

ACADEMIC ACHIEVEMENTS

- JEE rank - 21000 • MHCET rank - 1400 • Qualified and cleared various Science Olympiads.

POSITIONS OF RESPONSIBILITY

- Sponsorship executive and Public Relations head at Technovanza,VJTI
- Founding member and Joint General Secretary at Vishwa Astroclub,VJTI

INTERESTS

Astrophysics • Game theory • Artificial Intelligence • Reading • Cryptocurrencies • International Relations