



Tirlangi Harsha Vardhan

Roll No.: 21cs3052

Bachelor of Technology in Computer Science

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🌐 <https://github.com/tirlangiharsha>

EDUCATION

•Rajiv Gandhi Institute of Petroleum Technology

Bachelor of Technology in Computer Science

CPI: 8.11(Till fifth Semester)

• Lady Anusuya Singhanian Educational Academy

Higher Secondary Certificate

July 2021

Percentage: 89

•Dr.KKR Gowtham

Secondary School Certificate

June 2019

Percentage: 93

PROJECTS

•Mental Health Prediction using Social Media Data

March 2024

- Tools & technologies used: Numpy, Pandas, Scikit-learn, Matplotlib and Seaborn, Random Forest, Support Vector Machine, Logistic Regression, Decision Tree.
- Developed a predictive model for mental health analysis utilizing social media data.
- Achieved an accuracy of 85 percent with Random Forest, and 62 percent with SVM, indicating robust predictive capabilities.

•Restaurent Recommendation System

October 2023

- Tools & technologies used: Numpy,Pandas,Scikit-learn,NLTK
- Engineered a cosine similarity model to recommend nearby hotels based on user's geographical coordinates extracted from Google Earth.
- Personalized suggestions further refined by user-preferred cuisine.

•Customer Segmentation and Recommendation

May 2023

- Tools & technologies used:Numpy,Pandas,Scikit-learn,Matplotlib and Seaborn,K-Means
- Implemented a robust data cleaning process, resulting in a 25 percent reduction in preprocessing time by efficiently handling missing values, duplicates, and anomalies in the dataset.
- Utilized RFM features and behavioral insights to engineer key metrics, achieving a 30 percent improvement in understanding customer preferences and enhancing the recommendation system.

•Exploration of Google Earth Engine

March 2023

- Tools & technologies used: Google Earth Engine, Google Earth
- Conducted research leveraging JavaScript and Python APIs to explore Google Earth functionalities.
- Implemented interactive tools for spatial data visualization and analysis, enhancing geographic information system (GIS) capabilities.

TECHNICAL SKILLS AND INTERESTS

Languages:Python , C++ , Numpy , Pandas , Html , Css , C

Tools: Matlab , Google Earth Engine

Frameworks:Scikit-learn , Flask , Natural Language Processing (NLP)

Databases: SQL (Structured Query Language)

Soft Skills: Verbal and Written Communication , Teamwork , Public Speaking

Coursework: Data Structures and Algorithms , Operating Systems , CS Fundamentals , Machine Learning, DBMS

Areas of Interest: Data Science

ACHIEVEMENTS

- GATE CSE Accomplishment** *Achieved a commendable GATE (Graduate Aptitude Test in Engineering) score of 683 out of 1000, securing a rank of 1109 in the competitive GATE CS/IT (Computer Science/Information Technology) examination in 2024 in Computer Science fundamentals.*