Saketh Mulakaluri

Student

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I am a Computer Science student who is interested in machine learning and data science with python. My skills include python, java, SQL, Data analytics and visualization. Eager to apply my skillset in the professional work environment to work on projects in the data science domain.

Projects

Movie Recommender System using content-based filtering

July 2023 - November 2023

- Used TMDB movies dataset, leveraged sentiment analysis for classification of movie reviews, unsupervised NearestNeighbors model for generating movie recommendations for the movies with positive sentiment.
- Segregation of the recommended movies to direct the users toward a good set of movies suggesting them not to watch the “not recommended to watch” movies.
- Developed a Flask based web application for displaying the movie suggestions matching the emotional and genre preferences of the users for the given movie title and genre.

Climate Change Monitoring Satellite Mission through Life Cycle Assessment

February 2023 - October 2023

- Took part in the research project proposal made by Small Satellites Project Group (SSPG) of a non-profit organization named Space Generation Advisory Council (SGAC).
- Worked together with the Propulsion ADCS sub team for studying the attitude sensor configuration required for a fault-tolerant ADCS subsytem of a satellite for accurate attitude and orbit determination and wrote a student thesis on “Fault tolerant ADCS subsystem” as part of this research project.

Spaceship Titanic survival prediction using machine learning

- Dataset comprised of details about crew members of titanic spaceship like member_id, home_planet, destination_planet, expenses spent on home service, Spa etc.
- Tested various classification algorithms such as Logistic Regression, Naive Bayes classifier, Decision trees, Random Forest, bagging and boosting algorithms like XGBoost, LightGBM and CatBoost.
- CatBoost and LightGBM algorithms outperformed others with average validation accuracies of 81.26% and 81.02% in classifying the crew members of the titanic spaceship.

Education

CVR College of Engineering, Ibrahimpatnam

2024

- B.Tech in Computer Science and Engineering - Data Science

Narayana Junior College, Dilsukhnagar

2020

- Mathematics Physics Chemistry (MPC)
- Percentage: 94.1 %

Narayana High School, SRK Puram

2018

- CGPA - 9.8

Skills

- Python
- Java
- SQL
- Data analytics and visualization
- HTML
- CSS
- Flask framework
- Tableau