PINNEPALLI RAKESH

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Education

Vellore Instutite of Technology — **2021 - 2026**
Integrated M.Tech in Computer Science & Engineering — *8.45/10 CGPA*

Narayana Junior College — **2019 - 2021**
Class XII — *96%*

Universal High School — **2009 - 2019**
Class X — *10/10 CGPA*

Technical Skills

Languages: Python, MySQL, R
Data Visualization: Power BI
Libraries/Frameworks : NumPy, SciPy, Pandas, Matplotlib
Relevant Coursework : Object-Oriented Programming, Machine Learning, Data Visualization, Data Analytics
Developer Tools: VS Code, GitHub

Projects

Fake News Detection Using Machine Learning — **Source Code**
- Built a Fake News Detection model using **Passive Aggressive Classifier** combined with **TF-IDF Vectorization** for text representation.
- Utilized Pandas for data cleaning, transformation, and preparation of news articles, ensuring reliable and consistent input for model training.
- Trained and fine-tuned the model using **Scikit-Learn's Machine Learning algorithms** to improve classification accuracy.
- Evaluated the model performance using **Precision, Recall, and F1-Score**.

Music Recommendation System — **Source Code**
- Developed a Music Recommendation System using **Collaborative Filtering** techniques for personalized song suggestions.
- Preprocessed and cleaned user-item interaction data using **Python, Pandas, and Scikit-Learn**.
- Trained and optimized the model to achieve over **90% prediction accuracy** on recommendation tasks.
- Evaluated model performance using **Mean Squared Error (MSE)** and **Root Mean Squared Error (RMSE)**.

Cricket Data Analysis — **Source Code**
- Conducted **Cricket Data Analysis** using **Python, Pandas, and Power BI** to evaluate player performances.
- Implemented **web scraping techniques** to extract player statistics from **ESPN Cricinfo**.
- Cleaned and transformed data using **Pandas and Power Query** for efficient analysis.
- Designed an **interactive Power BI dashboard** to visualize insights and facilitate **Best XI player selection**.

Experience-Internship

Data Science Intern at *CodSoft* — **Dec 2023**
- Utilized data cleaning, visualization, and interpretation techniques to extract & uncover valuable insights.
- Enhanced organizational analytical capabilities, fostering a data-driven culture through my contributions.

Achivements - Coding
- Developed strong analytical and debugging skills by solving 200+ diverse coding problems on leading online platforms.

Intrests
- Reading,Music,Sports,Artificial Intelligence

Languages
- English - Proficient, Telugu - Native