AAYAAN HASNAIN

Data Science Intern

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EDUCATION

B.E. IN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

RV COLLEGE OF ENGINEERING(2nd Year)

2021 - Present

GPA
9.3 / 10

EXPERIENCE

Inventory Management Analyst

Electric Vehicle Info

04/2023 - Present | Bangalore, India

- Collaborated effectively as part of a **cross-functional team** of six professionals to conduct **inventory management** analysis for an EV company, working closely under the guidance of the Head of the AI/ML Department, **Dr. Satish Babu,** and the Principal of RVCE, **Dr. K. N. Subramanya.**
- Conducted a thorough **PESTLE** analysis (Political, Economic, Sociocultural, Technological, Legal, and Environmental) to evaluate how external influences affect the inventory management environment in the **EV business**.
- Leveraged the insights gained from the PESTLE analysis to develop a comprehensive questionnaire for further **Factor analysis** Algorithm, ensuring the inclusion of relevant **variables** and factors that impact inventory management within the EV industry.

CHATBOT

Intern at AIML dept. RVCE

- Worked and designed a **Conversational ChatBot** in a team of 2 using **PyTorch** and **Flask** as its framework which works on NLP under the guidance of **Prof**. **Narasimha Swamy** | Dept. of AIML
- The ML-based ChatBot incorporates features such as responding to the user with the appropriate professors' location and current designation in the AIML Department of RVCE with an additional Voice talk and response feature using JavaScript's WebToolKit API.
- Designed an **AutoCorrect** Feature using **NLTK's ngrams** which utilizes **Jaccard Distance Algorithm**(improved the accuracy of auto-correct feature by **87**%).

PROJECTS

California House Prices Prediction

Used the well-known California House Prices dataset on **Kaggle** to incorporate an end to end **Machine learning** project.

- Conducted thorough study of California home market data, covering variables such spatial **data visualisation**, **correlation analysis**, and **attribute combinations**, providing real estate experts and investors with insightful information.
- Advanced statistical approaches were used to create a reliable predictive model, including a **custom transformer pipeline** that expedited feature engineering, data preprocessing, and model training while enhancing productivity and repeatability with **Scikit-Learn**.
- **K-fold cross-validation** approaches were used to compare several regression algorithms, with the **Random Forest Regressor** outperforming the others in terms of metrics like **mean squared error** and **R-squared**, resulting in precise and trustworthy predictions of home prices.

Spotify Dashboard

- Thorough domain research was done on **Spotify API** data to learn more about its structure and available API endpoints. Relevant data was extracted from Spotify using the API, utilising **RESTful API** principles for quick data retrieval.
- Designed a user-friendly dashboard using **Streamlit**, incorporating filtering options for dynamic data exploration and **customization** of analysis. Integrated interactive **data visualizations**, such as charts and graphs, provide users with actionable insights from **real-time** Spotify data.

TECH STACK

Python | **C++** | **TensorFlow** | **Scikit-learn** | **Flask** | **MySQL** | **RestFul** | **OpenCV** | **DSA** | **Streamlit**

KEY ACCOMPLISHMENTS

Won third Prize in a hackathon conducted by the IEEE Computer Society

Won the CTF competition conducted by Coding Club of RVCE