CHARAN S

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Education

Sri Venkateshwara College of Engineering, Bangalore Aug 2020 – May 2024

B.E. in Computer Science and Engineering –Artificial Intelligence

Relevant Coursework: Python Programming, Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Machine Learning, Deep Learning, Data Mining, Advance Data Structures and Algorithms, Natural Language Processing, Mathematics for Machine Learning.

Skills

Programming Languages and Databases: Python, SQL, MySQL.

Libraries/Frameworks: Scikit-Learn, Tensorflow, Pytorch, Pandas, Numpy, Matplotlib, Seaborn, NLTK,Flask,HuggingFace.

ML/DL: Supervised and Unsupervised learning algorithms, Neural Networks, EDA, Feature Engineering, Hyper Parameter Tuning, Natural Language Processing,Transformers.

Mathematics for ML & Data Science: Statistics, Algebra, Calculus, Matrics, Probability.

Generative AI: Langchain, LLMs, RAG, Vector Databases.

Development Tools: Git and Github, Jupyter Notebook, VSCode, Vercel.

Core Competencies: Communication, Presentation, Decision Making.

Project Work

CryptoCurrency Volatility Prediction Based On Social Media Sentiment Analysis: Built a System to Predict CryptoCurrency market volatility using social media data and real time Crypto market data. Used python to collect data from Reddit and CoinGecko. Analysed sentiment in social media posts using pretrained DistilBERT model. Created features from market data and sentiment scores and combined them with timestamp as index.Trained Random forest model to predict volatility.Made a web app with Flask to show predictions and Historical data chart. Used Technologies are python,pandas,Scikit-learn,PRAW(for Reddit data),Hugging Face Transformers(for sentiment analysis), and Flask.

Telecom Churn Prediction: Developed a Telecom churn Prediction to predict the Telecom churn probability in Telecomunication Industry. Utilized python and popular data science libraries for data processing, Analysis, Visualization and Model building. Implemented and compared Various machine learning model from Scikit-learn for better performance. Implemented extensive Hyper parameter tuning for Random Forest Classifier to improve the performance of the model.Created a Flask application to deploy the churn prediction model. Technologies used in this project are python, scikit-learn, pandas, numpy, matplotlib, Seaborn, Falsk, VScode.

Retail Question and Answer system Using Generative AI: Developed an advanced retail question and answer system using generative AI technologies. The system is designed to interact with t-shirts database and provide accurate and contextual relevant answers to user queries without Writing Complex SQL Queries. Key components and technologies used in this project include Langchain, Large language model (GooglePalm), RAG, Vector databases, MySQL database etc.

Internships

Hidusthan Aeronautics Limited, Bangalore Sep 2023 – Oct 2023

During my Internship at Hal Bangalore, I gained valuable insights into Aerospace Technology, focusing extensively on networking and routing concepts essential to AMC. Working alongside seasoned professionals, I actively contributed to projects involving networking and routing enhancing my understanding through hands on experience and mentorship.

Achievements and Certifications

- Solved 250+ problems in Leetcode -> https://leetcode.com/u/CHARANS27/
- Participated in shell.ai Hackathon for sustainable and affordable Energy.
- Coursera-Python Programming.

Additional Information

Languages: English, Kannada, Telugu.