Arige Dinesh Kumar

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LinkedIn: LinkedIn   GitHub: GitHub

Education

Master of Science in Data Science   *2024 – Present*
International Institute of Information Technology, Hyderabad   Hyderabad

B.Tech in Electrical and Electronics Engineering   *2020 – 2024*
S R Gudlavalleru Engineering College   Gudlavalleru
CGPA : 7.91

Intermediate   *2018 – 2020*
Sarada Sunflower Junior College   Challapalli
CGPA : 9.67

Projects

AI-Powered Document Query System (RAG Pipeline with FastAPI)
Technologies used: *FastAPI, Python, Embeddings, FAISS, Sentence Transformers, OCR/PDF Parsing, REST APIs*
I built a PDF-based RAG system using FastAPI. The user uploads a PDF, the system extracts the text, chunks it, converts it into embeddings using Sentence Transformers, and stores them in FAISS. When the user asks a question, the system performs vector search to find relevant chunks and generates an answer based on the context. This project demonstrates the core RAG pipeline end-to-end.

AI News Automation Bot – Flowise, Groq, Telegram API
Technologies used: *AI, Groq LLM API, News API, Telegram Bot API, Python.*
Built an AI-powered automation system that fetches real-time news, summarizes it using Groq LLM, generates contextual images, and posts formatted updates to a Telegram bot. Developed custom JavaScript nodes inside Flowise for data extraction, formatting, and logic handling, and integrated the workflow using agent nodes and HTTP modules..

Stock Price Predictor
Technologies used: *Python, scikit-learn, yfinance, Matplotlib, Streamlit*
Developed a stock price prediction app using Random Forest Regression to forecast the next three days' closing prices for any stock ticker. Built an interactive Streamlit interface with a search feature and dynamic plots to compare actual and predicted prices. Integrated `yfinance` for live stock data and deployed the app on Streamlit Cloud.

Skills

- **Languages:** Python
- **Backend Frameworks:** FastAPI
- **AI/ML NLP:** RAG Pipelines, Integration
- **Libraries:** Pandas, NumPy, Matplotlib, Scikit-learn
- **Tools:** Flowise, GitHub
- **Databases:** MySQL
- **Other Skills:** Problem Solving, Analytical Thinking, Debugging

Soft Skills

- Flexible & Adaptive
- Leadership
- Good Time Management
- Communication

Certifications

- Python Bootcamp: From Zero to Hero – Udemy