Yukti Jagdish Nadhe

yuktinadhe8@gmail.com +91- 9860677950 LinkedIn: Yukti Nadhe Hyderabad, Telangana

Aspiring Data Scientist | Python for Data Science | Deep Learning | Machine Learning | Generative AI | NLP |Agentic AI

Dedicated Data Scientist specializing in data analysis, machine learning, and AI-driven solutions. Proficient in Python, SQL, and data visualization tools, with hands-on experience in Random Forest, AdaBoost, Time Series forecasting, YOLO-based object detection, and LangChain-based RAG models. Passionate about leveraging data science to optimize business strategies and enhance AI applications through innovative and intelligent solutions.

Technical Skills

- **Programming & Data Analysis:**
  Python, EDA, Pandas, NumPy, MySQL
- **Machine Learning:**
  Linear & Logistic Regression, Decision Trees, Random Forest, KNN, SVM, XGBoost, AdaBoost, Bagging, Boosting, K-Means Clustering, PCA, Model Evaluation .
- **Deep Learning & Computer Vision:**
  Convolutional Neural Networks(CNN), Recurrent Neural Networks(RNN), Long Short-Term Memory (LSTM), YOLO, OpenCV, TensorFlow, PyTorch
- **Natural Language Processing & AI Applications:**
  Transformers, Hugging Face, Chat GPT, Encoder-decoder, LangChain, Retrieval-Augmented Generation (RAG), Prompt Engineering, LLMs, Generative AI, Agentic AI
- **Data Visualization & Business Intelligence:**
  Power BI, Tableau, Seaborn, Matplotlib
- **Tools & Frameworks:**
  Jupyter Notebook, Google Colab, Spyder, VS Code

Projects

Financial Document QA Chatbot using LangChain, FAISS & Azure OpenAI

- Developed a RAG-based QA pipeline using Azure OpenAI and LangChain to extract insights from unstructured financial documents.
- Embedded document chunks using AzureOpenAIEmbeddings and stored them in a FAISS vector index for efficient semantic retrieval.
- Designed a custom prompt and query flow to retrieve relevant content and generate accurate answers through GPT-4o based on financial context.

Multi-Agent Orchestration using Azure OpenAI and Semantic Kernel

- Developed a domain-specific multi-agent system leveraging Semantic Kernel and Azure OpenAI to handle intelligent query simplification, classification, and routing.
- Implemented a supervisor agent to rewrite and tag user queries based on relevance and domain, enabling accurate task delegation.
- Orchestrated task execution through GroupChatOrchestration and custom RoleBasedApprovalManager to ensure collaborative resolution with approval-based flow.

AI-Powered Travel Planner using CrewAI & Gemini

- Developed an intelligent travel planning application utilizing CrewAI and Google's Gemini Pro, orchestrating multiple AI agents to collaboratively generate personalized itineraries.
- Integrated real-time data retrieval through SerperDevTool, enabling dynamic recommendations for flights, accommodations, and local attractions based on user preferences and budget constraints.
- Implemented an interactive user interface with Streamlit, facilitating seamless user input and displaying comprehensive travel plans, including day-wise itineraries, budget breakdowns, and points of interest.

Certifications

- Data Science with Gold Medal (NASSCOM by GOI)
- Generative AI Applications with RAG and LangChain (IBM)
- Python for Data Science (IBM)

Education

Bachelor of Science (2023)
Rashtrasant Tukadoji Maharaj Nagpur University