Pratham Yeshwante

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🧠 Skills

- **Programming Languages** — Python, SQL, R
- **ML/DL Libraries** — Numpy, Pandas, Sckit-learn, Tensorflow, Keras, PyTorch, spaCy, OpenCV
- **AI/ML Frameworks** — OpenAI API, Hugging Face Transformers, LangChain, LangGraph , LlamaIndex
- **Databases** — MySQL, MongoDB, PostgresSQL
- **Cloud Services** — AWS (Lambda , Apprunner, S3 , ECR) , Azure (Azure OpenAI Studio, Azure ML Studio) , Google Cloud
- **API Development & Tools** — FastAPI , Flask, Docker, Jupyter Notebook, MCP Server

💼 Experience

GenZDealZ.ai | iWeb Technology
AIML Developer   June 2024 - Present
- Designed and developed an **AI-powered deal discovery chatbot** using **Retrieval-Augmented Generation (RAG)** to provide personalized deal recommendations to users.
- Built an intelligent **search bar** using **Azure AI Search Index** for fast, accurate, and context-aware deals through semantic search.
- Developed **recommendation systems** leveraging **Neural Collaborative Filtering (NCF)** and **Cosine Similarity** models to enhance user engagement and deal relevance.
- Deployed **scalable APIs** across **cloud environments** ensuring high availability and seamless performance for recommendation and chatbot services.

AI Variant
Data Science Intern   Oct 2023 - April 2024
- Developed and deployed machine learning models for diverse applications, including resume classification and customer spending prediction.
- Preprocessed and transformed data using techniques like cleaning, **tokenization**, stop-word removal, and **TF-IDF vectorization** to prepare it for analysis. Conducted in-depth data exploration with Python libraries such as **Pandas** and **Scikit-learn**, uncovering actionable insights and trends.
- Achieved high accuracy in predictions, with 96% for resume classification and 98% for customer spending, demonstrating the effectiveness of the models.

📁 Projects

Smart AI Assistant
- **Developed an intelligent multimodal AI assistant** capable of analyzing **documents, images, audio, and web data** to generate context-aware responses.
- **Integrated Azure OpenAI (GPT-4)** with **LangChain agents** to enable tool-based reasoning and dynamic workflow execution for real-time information analysis.
- Built **custom file parsers** for multiple formats including **PDF, Word, Excel, CSV, PowerPoint, text, and image files**, enabling seamless text extraction and interpretation.
- Implemented **Google Search API integration** for live **web-based information retrieval**, allowing the assistant to provide up-to-date and accurate answers.
- Designed and deployed the solution as a **Flask-based microservice**, supporting scalable solution.

Technologies: Flask, Azure OpenAI (GPT-4), LangChain, Google Search API, PyPDF2, OpenPyXL, python-docx

AI Interview Analysis System
- Developed an end-to-end AI-driven interview analysis pipeline that evaluates candidate performance through **video, audio, and NLP-based insights**.
- Built automated transcription using **AWS Transcribe** and implemented **tone and sentiment analysis** with **AWS Comprehend** to assess emotional tone and confidence.
- Designed and implemented a **facial emotion** and presence detection module using **AWS Rekognition, OpenCV**, and FastAPI to analyze visual cues such as happiness, nervousness, and confidence to monitor real-time candidate engagement during interviews.
- Integrated **Azure OpenAI (GPT-4)** via **LangChain** with multimodal analytics (speech, text, and facial data) to evaluate communication, skills, and response quality, generating structured feedback, SWOT summaries, and a **quantitative performance score** for objective candidate assessment.

Technologies : AWS Transcribe, AWS Comprehend, AWS Rekognition, Azure OpenAI , LangChain, OpenCV , FastAPI , Apprunner

🎓 Education

Bachelors of Science (IT), B.K.Birla College   Aug 2020 – May 2023
CGPA : 8.84   Kalyan, India