DHANA SHWETHA P

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PROFESSIONAL SUMMARY:

Results-driven Data Science professional with 3 years and 8 months of experience in building and deploying scalable AI solutions. Skilled in NLP, Azure OpenAI, and Azure Cognitive Services, with a focus on intelligent chatbot development, automation, and secure AI deployment. Experienced in leading end-to-end AI initiatives using Microsoft Azure, Retrieval-Augmented Generation (RAG), and advanced prompt engineering techniques.

TECHNICAL SKILLS:

Python, Deep Learning, Machine Learning, Facial Recognition, Azure OpenAI, Azure Cognitive Services, Azure AI Agent, TensorFlow, OpenCV, Pandas, NumPy, Matplotlib, DeepFace, NLP, NLTK, Hugging Face, LangChain, Prompt Engineering, LLM

PROFESSIONAL EXPERIENCE:

Digital Senior Engineer
Sonata Software – Bangalore, India
Nov 2023 – Present - Developed and deployed AI solutions using Azure OpenAI with 'Add Your Data' for custom web app deployments. - Built RAG (Retrieval-Augmented Generation) models integrating Azure Cognitive Search for accurate, contextual chatbot responses. - Implemented RBAC for Azure OpenAI, Azure Search, and Storage to ensure secured access. - Automated document workflows using Azure Form Recognizer. - Enabled text processing with Azure Speech, Translator, and Language Services. - Used KQL to analyze Azure Data Explorer logs for insights and troubleshooting. - Managed customer interactions, offering technical support and resolutions during deployment phases.

Key Projects:

1. **RAG Model & Chatbot using Azure OpenAI + Cognitive Search**

2. Developed a retrieval-augmented generation system to improve chatbot response accuracy using enterprise documents.

3. **Knowledge Base File Search with Azure AI Foundry Agents**

4. Developed a secure and scalable file-based knowledge search system using Azure AI Studio and AI Foundry Agents.
5. Integrated grounding search using Azure AI to align LLM responses with enterprise documents.
6. Applied prompt engineering and function calling to allow users to search, summarize, and interpret content from large files.
7. Designed RBAC-secured endpoints for agent execution and document access.

Associate Data Scientist
Posidex Technologies Pvt. Ltd. – Hyderabad, India

Oct 2022 – Nov 2023 - Developed automated KYC verification platform with document verification and real-time liveness detection. - Implemented face detection using MTCNN and Haar Cascade; developed embedding-based face matching using DeepFace, VGG-Face, FaceNet, and ArcFace. - Integrated FastAPI for backend services and containerized the application using Docker. - Built tools for signature matching, demographic data extraction.

EDUCATION:

Bachelor of Engineering in Electrical & Electronics Engineering
CMR Institute of Technology, Bangalore – Graduated: 2020

CERTIFICATIONS:

- Microsoft Certified: Azure OpenAI Advanced (Level 300)
- Microsoft Certified: Azure Advanced Cognitive Services