Anu Lekshmikutty Sasidharan

AI Knowledge Engineer/SME

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SUMMARY

Results-driven AI and Data Engineering professional with over 13 years of experience designing, implementing, and optimizing large-scale data infrastructure and AI systems across cloud and on-prem environments. Demonstrated strengths in Generative AI, Agentic AI frameworks, and LLM integration, with proven success in developing end-to-end AI solutions encompassing data ingestion, preprocessing, feature engineering, and model deployment using LangChain, OpenAI APIs, Streamlit, MLflow, and vector databases such as FAISS, Pinecone, and Chroma. Experienced in architecting scalable AI and data pipelines and integrations on GCP, AWS, and Azure while leveraging Kubernetes for efficient model lifecycle management and robust data architecture. Recognized for combining deep technical expertise with a strategic mindset to build secure, reliable, and production-grade AI platforms that enable real-world autonomous reasoning and intelligent interaction through strong communication skills, business understanding, and proven ability in decision-making, data strategy, and optimization of structured and unstructured data processing within scalable database systems and knowledge base implementations.

EXPERIENCE

Tech Mahindra	Dec '22 — Present Toronto, Canada (Remote)
Tavant Technologies	Sep '21 — Sep '22
Allianz Technology SE	Apr '16 — Sep '21
AON Hewitt	May '15 — Apr '16

SKILLS

Relevant Skills Knowledge Base, Data Pipelines, Data Strategy, Integration, Data Architecture
Generative AI & LLM Engineering: OpenAI, Anthropic Claude, Google Gemini, Mistral, Hugging Face Transformers, Retrieval-Augmented Generation (RAG), Knowledge Graphs, Vector Databases, Prompt Engineering, Model Fine-tuning, GraphRAG
LLM Frameworks: LangChain, LlamaIndex, Haystack, DSPy
Vector Databases: FAISS, Pinecone, Chroma, Weaviate, Milvus
Agentic AI / LLM Orchestration Frameworks MCP, n8n
MLOPS/AIOPS: MLflow, DVC, DagsHub
ML / DL Frameworks: Scikit-Learn, TensorFlow, XGBoost, Keras, NLP
DEVOPS: Git, Docker, Kubernetes, Jenkins, AgroCD
Databases: Mysql Cluster, Neo4j
AWS Cloud: AWS SageMaker, Bedrock
Prompt Engineering Tools: LangSmith, Ollama
Model Serving / Deployment: FastAPI, FastMCP, Streamlit
Observability / AIOps: Prometheus, Grafana, Elastic Stack (ELK)
ETL Apache AirFlow
programming Languages Python, SQL, Cypher Query Language

PROJECTS

RAG-Document-Search Link

- Designed and implemented a Retrieval-Augmented Generation (RAG) pipeline leveraging LangChain, Hugging Face Transformers, and FAISS to enable context-aware document retrieval and intelligent query resolution across multi-format datasets. Integrated scalable data architecture and knowledge base strategies to manage structured and unstructured data efficiently, enhancing data processing and decision-making. Applied strong programming and coding practices to ensure optimal performance, scalability, and seamless integration with database systems.

MCP-InsightEngine – LLM-Based File Analyzer & Insight Generator Link

- Engineered an LLM-driven file analysis platform leveraging Python, FastAPI, and Streamlit to process CSV, JSON, PDF, and text files, delivering real-time insights such as summaries, key trends, and anomaly detection. Built end-to-end data pipelines and implemented robust integration workflows to support business understanding and data strategy. Applied domain knowledge and proven ability to design scalable data pipeline architecture, ensuring efficient data processing and optimization. Demonstrated strong communication skills and soft skills to explain technical implementation to diverse stakeholders.

EDUCATION

Bachelor of Technology in Electronics and Telecommunications in Engineering, Jun '05 — Aug '09
Kerala University (GPA: 6.9) India

CERTIFICATIONS

Microsoft Certified: Azure Data Fundamentals, Microsoft Oct '20
Microsoft Certified: Azure Fundamentals, Microsoft Jun '20