

Akshata Madavi

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Summary

Graduate student in Software Engineering at San José State University, seeking a summer internship to apply advanced proficiency in **data engineering, cloud platforms, and AI/ML solutions**. Passionate about building scalable data infrastructure, developing innovative **machine learning applications**, and contributing technical expertise in a dynamic, growth-focused team environment.

Education

San Jose State University , MS in Software Engineering	Aug 2025 – Present
Relevant Coursework - Data Analytics, Data Mining, Recommender Systems, Enterprise Sofware Platforms	
College of Engineering Pune (COEP) , BS in Computer Engineering	Aug 2014 – May 2018
Relevant Coursework - Programming, Databases, Algorithms, Software Design	

Skills

- **Languages-** Python, SQL
- **LLMs & GenAI:** Prompt engineering; **RAG** (LangChain/LlamaIndex); **Vector stores** (FAISS, Chroma, Pinecone); **Embeddings** (OpenAI, SentenceTransformers); **Evaluation** (Ragas/Promptfoo); **Serving** (OpenAI API, Vertex AI, Hugging Face); **Fine-tuning/LoRA**; **Monitoring/guardrails** (Langfuse, Guardrails)
- **Machine Learning & Analytics:** PySpark ML, XGBoost, Tableau, PyTorch, TensorFlow, scikit-learn, Pandas, NumPy
- **Data warehouse/Databases-** BigQuery, MySQL, ClickHouse, Presto
- **Data pipeline/Data architecture-** Dataflow, Cloudrun, Cloud Storage, Compute engine, Spark, Kafka, PubSub
- **Orchestration-** Workflows, Cloud Composer, Airflow

Projects

- **VitalWatch – Real-Time Elderly Health Monitoring (AI-Catalyst Hackathon 2025)**

Built an end-to-end, real-time health monitoring system that streams wearable vitals into Kafka/KSQL, detects anomalies, & uses Vertex AI, ElevenLabs, & Twilio on GCP to deliver personalized multi-channel alerts within ≈ 10 sec.

- **Enterprise LLM/AI API Monitoring Platform** (LangChain, LiteLLM, AWS, CI/CD)

Designing a secure platform to monitor and audit API calls to enterprise LLM/AI providers, focused on prompt privacy & compliance. Features - historical prompt analysis, user recommendations, alternate prompt suggestions.

Work Experience

Senior Data Engineer , LTIMindtree – Pune, India	May 2023 – Mar 2025
<ul style="list-style-type: none">• Developed and optimized near real-time data pipelines to seamlessly migrate on-premises traditional databases to a centralized BigQuery platform, facilitating efficient analytical workloads and insights. Processed approximately 10 million records.• Designed and implemented an event-driven pipeline to process and load complex, inconsistent data from multiple Excel sheets into GCP, reducing processing time from a week to under 10 minutes with parallel processing of 30 GB• Established orchestration using Google Workflow to ensure smooth execution and management of data pipelines.	
Data Engineer , AI Adventures – Pune, India	Aug 2021 – Apr 2023
<ul style="list-style-type: none">• Led migration of course data from Moodle to MySQL, enabling business intelligence views that drove a 20% increase in revenue.• Expanded insights into sales, student retention, and curriculum performance, improving data-informed decisions across the organization.	

Data Engineer , STL – Pune, India	Jun 2018 – May 2021
<ul style="list-style-type: none">• Built near real-time data pipelines to migrate on-prem databases (Oracle, SAP and Salesforce) to BigQuery, enabling efficient analytics and processing approximately 1 TB of data.• Provided Tableau reports and data-driven insights to support business functions, including scrap detection and DOE analysis, driving process improvements and informed decision making.• Collaborated with cross-functional teams to ensure effective data usage, driving successful operational outcomes, and achieve business objectives.	
Data Engineer , STL – Pune, India	Jun 2018 – May 2021