Akash Kumar Pandey

Contact Information

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Personal Summary

A data professional with over **4 years of experience** in SQL development, data warehousing, and retail analytics. Specializes in **Generative Al and Agentic Al** applications, with a strong foundation in scalable data systems and automation. Seeks to design and deploy intelligent, LLM-powered business solutions by combining a data engineering background with advanced Al expertise.

Education

- B.Tech in Electrical Engineering, Heritage Institute of Technology, Kolkata (2017–2021)
- GPA: 8 DGPA

Work Experience

- System Engineer, Tata Consultancy Services, Bengaluru, Karnataka (2022-Present)
 - Woolworths South Africa: Designed and optimized SQL procedures, SSIS data flows, and scheduled jobs for data warehousing. Improved report generation speed by 30% and automated data validation workflows, reducing manual intervention by 40%.
 - **Lifestyle (Landmark Group)**: Designed and implemented an **Al-driven batch monitoring** and self-healing agent in Python for enterprise batch jobs. The agent autonomously interpreted SOPs using LLM-based reasoning to execute corrective actions.
 - Key Contribution: Served as the primary developer for the end-to-end RFID integration project for 250 stores, creating procedures and ensuring data integration with downstream systems like RMS and DWH.

Skills

- Top 3 Proficient Skills:
 - 1. **SQL Development & Data Warehousing**: Over 4 years of extensive experience with SQL (T-SQL) and tools like SSIS/SSRS. Proficient in query optimization and ETL logic.
 - 2. **Generative AI & Agentic AI**: Expertise in developing autonomous AI agents and leveraging **prompt engineering** for real-world business solutions.
 - Python Programming: Used for building Al solutions, automation scripts, and proof-ofconcept tools.
- AI/ML: Generative AI, LLM Integration, Prompt Engineering, Agentic AI Orchestration.
- Data Engineering: SQL (T-SQL), Python, SSIS, SSRS, Qlik Sense, Git, Automic (UC4).
- Cloud/Tools: Azure TFS, SQL Server Management Studio, VS Code, API Integration, Gradio.
- **Soft Skills**: Analytical Thinking, Collaboration, Adaptability.

Projects

- Al-Driven Batch Monitoring & Self-Healing System: A production-grade Al agent that monitors
 enterprise batch jobs and autonomously executes corrective actions using LLM-based SOP
 interpretation.
- **LLM-Powered Test Case Generator**: A Python tool that uses **Qwen14b** and prompt engineering to generate structured test cases from functional design documents.
- **RFID Integration for Retail Inventory**: A project that processed and integrated live inventory data for 250 retail stores.
- Retail Data Warehousing: Designed and optimized data flows using SSIS and T-SQL.
- **Retail Sales Dashboard with Qlik Sense**: An interactive dashboard with live KPIs to enable datadriven decisions.
- **Al-Powered Brochure Creation Tool**: A personal project published on GitHub that generates professional brochures from website URLs using Python, Gradio, and open-source LLMs.

Certifications

AWS Certified Data Engineer - Associate (In Progress)

Achievements

- Star of the Month Nomination: Recognized for outstanding performance and contributions.
- TCS Wings 1 Exam: Cleared a key internal professional certification at Tata Consultancy Services.

 RIO Session Recognition: Acknowledged for conducting RIO (Re-skill, Innovate, Optimize) sessions.

Extracurricular Activities

• Sports: Enjoys playing cricket and volleyball.

Career Goals

- **Next 5 Years**: Grow into a specialized **AI Engineer/Architect** role, focusing on building and deploying production-ready AI systems. Deepen expertise in LLMs, agentic AI frameworks, and MLOps.
- **Next 10 Years**: Aspires to lead **Al-driven transformation initiatives** at scale, mentoring teams and designing intelligent automation platforms. Passionate about applying Al to solve complex, high-impact business problems in industries like **retail**, **fintech**, **and enterprise automation**.