Akshara Gupta

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Education

CMR Institute Of Technology, Bengaluru   Aug 2019 – May 2023
Bachelor of Engineering - Information Science and Engineering
CGPA: 8.03 / 10.0

Experience

.msg global solutions, Bengaluru - Software Developer   May 2023 – Present
- Designed and implemented scalable **microservices** to handle large numbers of transactions efficiently.
- Developed **REST APIs** from design to deployment, using **Postman** for testing and validation to ensure secure and efficient integration with other systems.
- Resolved several high-priority product bugs across multiple modules, improving system stability and customer satisfaction.
- Improved **accessibility features** to enhance user experience for individuals with disabilities.
- Fixed **critical security vulnerabilities** ensuring alignment with SAP security guidelines and global compliance standards.
- Enhanced code quality through comprehensive **regression and unit testing** using **Jest**, identifying and addressing potential regressions early in the release cycle.
- Worked extensively with **SAP HANA** and **HANA procedures** to build robust backend logic supporting business rules and calculations.
- Designed and optimized complex **PaPM SQL queries** and data flows to enhance performance and minimize memory usage during model execution, achieving a **10% reduction in memory consumption**.

Projects

SAP PaPM Modelling Assistant (Prototype)   *Python, LangChain*
- Developed an **AI-driven assistant** to accelerate the creation of SAP Profitability and Performance Management (PaPM) models by intelligently interpreting business requirements and automating model design.
- Implemented a **Retrieval-Augmented Generation (RAG)** architecture and **multi-agent system** that analyzes client documentation for use cases such as Allocation, Consumer Profitability, Vendor Profitability, and Operational Transfer Pricing.
- Expected to reduce **modeling time by ~50%** , enabling faster and more reliable SAP PaPM implementations.

Skills

Programming Languages: Java, Python, JavaScript
Frameworks & Libraries: Spring Boot, Node.js, React.js, LangChain
Concept: OOP, Design Patterns, Data Structure and Algorithm
AI: Retrieval-Augmented Generation (RAG), LLM Agents, Prompt Engineering, Vector Databases (FAISS/Chroma)
Databases: SAP HANA, MySQL
Tools & Platforms: Git, VS Code, Postman

Awards & Activities

- **Spot Award (Technical Excellence)**   *Jul 2025*
  Honored by the CEO for implementing SQL and data flow optimizations that reduced memory usage by 10%, improving system performance and efficiency.
- **Spot Award (Leadership Excellence)**   *Dec 2024*
  Recognized by the department head for leading a small team and initiating process improvements that accelerated customer issue resolution and reduced turnaround time for bug fixes.