

Ajay Jayaraj

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EDUCATION

Bachelor of Technology | SASTRA UNIVERSITY

Jun 2018 - Apr 2022

SKILLS

Data Engineering: Azure Databricks, Azure Data Factory, Azure Data Lake Storage, Azure Blob Storage, Azure Functions, Azure Logic apps, Snowflake, Python, SQL, Apache Spark(Spark SQL, Pyspark)

Data Analysis: Root Cause Analysis, Data Warehousing, Data Modelling.

AI/ML Tools: Retrieved Augmented Generation, Prompt engineering.

Version Control: GitHub, Git [Git Strategy]

EXPERIENCE

ZS Associates

SEP 2022 - PRESENT

Data Engineer

- Developed and managed **automated data workflows** with Azure Databricks, enabling **validated data ingestion pipelines** from multiple [15+] sources to production environments ensuring scalable, secure data delivery via Azure Data Factory.
 - Established and **enforced data governance and security** in Azure Databricks achieving 100% compliance with regulatory standards for PHI/HIPAA data.
 - Architected automated data pipelines using Azure Data Factory to **ingest and transform** provider solutions and Pharma data, optimizing Snowflake for seamless processing.
 - Programmed **complex and efficient SQL queries** to power dashboards tracking \$500M contracts, purchasing behaviors, and rebate metrics, **enhancing transparency and operational efficiency**.
 - Created an **End-to-End Data & Platform Architecture** using Azure cloud and snowflake for data ingestion and data processing for a critical time constraint project.
 - Recognized for **developing scalable and reusable frameworks** that address recurring challenges in data engineering projects cutting down 40% of project turnaround time.
 - Boosted team productivity and innovation by training over 50 employees on **cutting-edge AI trends** and practical applications, resulting in a 65% improvement in efficiency when **solving day-to-day data and technology challenges**.
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PROJECTS

InspiroGene Product - Data & Platform Engineering

- **Architected and optimized** the core data pipeline and platform infrastructure powering the InspiroGene product's [Cell and Gene Therapies] analytics dashboard, resulting in a 20% improvement in report generation speed and enabling near real-time insights for key stakeholders
- **Spearheaded data and platform engineering** for InspiroGene, architecting data pipelines and infrastructure for near real-time analytics. Drove performance improvements, ensured scalability, and collaborated across teams for seamless product integration performance for more than 5 service lines.

Financial Planning and Analysis - Data and Gen AI Engineering

- Designed and implemented the data infrastructure underpinning 4+ FP&A Data Projects, enabling accurate and timely reporting of critical **financial metrics**. Leveraged SCDs and time-based aggregations to provide comprehensive historical analysis and support **strategic decision-making for multiple projects**.
 - Engineered a robust document chunking solution utilizing LLMs and Vector Databases, enabling a streamlined search and retrieval process for rebate details from GPO contracts; improved query response efficiency by 40%.
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CERTIFICATIONS

- Microsoft Certified Azure Data Engineer Associate - DP-203
 - Databricks Accredited Azure Platform Architect
 - Gen AI and LLM on Databricks
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AWARDS and ACHIEVEMENTS

- Lauded within cross-functional teams at ZS as the '**Flawless Finishers**' after implementing refined protocols which increased accuracy on deliverables up to 99%, reflecting superior discipline and focus on achieving industry-leading results throughout all phases of development.