

Ajay Jayaraj

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Professional Summary

- **Microsoft Certified Azure Data Engineer and AI Engineer** with 3+ years of experience in designing, developing, and implementing robust **BI and ETL solutions** across healthcare and pharmaceutical industries
- Developed and maintained **near real-time data ingestion frameworks** for operational analytics using Spark streaming and Databricks, ensuring **system uptime** and scalability
- Led cross-functional teams in successful **Agile methodology** implementation, resulting in 40% increase in project delivery speed through **DevOps best practices**
- Proven expertise in **data warehousing, data modeling**, and creating high-performance data pipelines using **Azure Data Factory, Azure Databricks**, and PySpark
- Strong proficiency in **database management systems** (SQL Server, MySQL) and advanced **SQL query writing** using CTEs, joins, grouping, and aggregation for efficient data transformations
- Skilled in building **end-to-end ETL solutions** leveraging cloud technologies (Azure) to automate processes, contributing to 67% reduction in manual tasks and 40% improvement in query performance.
- Experienced in implementing **Data Governance practices** and ensuring compliance through data cleansing and profiling techniques
- Demonstrated **technical support** capabilities through troubleshooting complex issues and **stakeholder collaboration** to gather requirements and translate them into technical specifications

Education

Bachelor of Technology | SASTRA UNIVERSITY

| Jun 2018 - Apr 2022

Technical Skills

- **Data Engineering & BI Development:** Azure Cloud (Azure Databricks, Azure Data Factory, Azure Data Lake Storage, Azure Blob Storage, Azure Functions), Snowflake, Python, SQL, Apache Spark (Spark SQL), **ETL Development**
- **Database Management:** SQL Server, MySQL, **Data Warehousing, Data Modeling**
- **Business Intelligence:** PowerBI, Tableau, **Data Visualization**, Dashboard Development
- **Data Analysis:** Root Cause Analysis, **Data Validation and Quality Assurance**, Performance Gap Analysis
- **AI/ML Tools:** Retrieved Augmented Generation, Prompt Engineering, AI Engineering, N8N
- **DevOps & Version Control:** GitHub, Git, **CI/CD Pipelines**, Github Actions.
- **Project Management:** Agile, Jira, Cross-functional Team Coordination

Certifications

- Microsoft Certified Azure Data Engineer Associate - DP-203
- Microsoft Certified Azure AI Engineer Associate - AI-102
- Databricks Accredited Azure Platform Architect
- Gen AI and LLM on Databricks
- SnowPro Associate: Platform Certification

Professional Experience

ZS Associates

Sep 2022 - Present

Senior Data Engineer

Jun 2025 - Present

- Created **End-to-End Data & Platform Architecture** using Azure cloud and Databricks for data ingestion and processing for critical **pharmaceutical client projects**.
- Developed **scalable and reusable frameworks** addressing recurring data engineering challenges, reducing project turnaround time by 40%.
- **Collaborated with key stakeholders** to gather requirements and translate them into technical specifications for healthcare analytics solutions.
- Demonstrated leadership by **mentoring junior associates**, managing project timelines, and coordinating with cross-functional teams.
- Implemented **Agile methodologies** and **DevOps best practices** for continuous delivery pipeline management.

- Developed and managed **automated ETL workflows** with Azure Databricks, enabling validated data ingestion pipelines from 15+ sources to production environments via **Azure Data Factory**.
 - Established and enforced **data governance and security** achieving 100% compliance with **regulatory standards** for PHI/HIPAA data in pharmaceutical environments.
 - Architected **automated data pipelines** using Azure Data Factory to ingest and transform **pharmaceutical data**, optimizing Snowflake for seamless processing.
 - Programmed complex SQL queries powering **business intelligence dashboards** tracking \$500M contracts and operational metrics, enhancing transparency and efficiency.
 - Provided **technical support** for **multi-server environments**, troubleshooting complex issues and ensuring optimal system performance.
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Key Projects

InspiroGene Product - Data & Platform Engineering

Client: Fortune 500 Healthcare Provider in the US & Canada

- Architected core **data pipeline and BI infrastructure** for Cell and Gene Therapies tracking, presenting financial, logistics, and therapy data via **analytics dashboards**.
- Achieved 40% improvement in report generation speed enabling **near real-time insights** for pharmaceutical stakeholders.
- **Collaborated with business stakeholders** to understand requirements and delivered **value-driven solutions** across 5+ service lines.

Customer Self-Serve Portal

Client: Fortune 500 Healthcare Provider in the US

- Designed and implemented **BI solutions** providing financial insights into pharmaceutical purchases, discounts, and rebates.
- Developed **data visualizations** integrating data from Snowflake and SAP BW using **Power BI**.
- Built **8 high-performance ETL pipelines** and complex Spark SQL queries supporting advanced frameworks like Row-Level Security.
- Managed **continuous delivery pipeline** and coordinated with cross-functional teams for seamless integration.

Enterprise Financial Planning and Analysis - Data and Gen AI Engineering

Client: Fortune 500 Healthcare Provider in the US & Canada

- Designed **data infrastructure** for 4+ FP&A projects enabling accurate financial reporting with **historical data analysis**.
 - Engineered document processing solution using **AI/ML tools** improving query response efficiency by 40% for pharmaceutical contract analysis.
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Awards and Achievements

Recognized as 'Flawless Finishers' for implementing refined protocols increasing deliverable accuracy by 40% across all development phases

Additional Information

- **Writing Data Engineering Blogs**, Attending Tech Events.
- Available for **hybrid work arrangements** and occasional **on-site work** as required.
- Strong commitment to **continuous improvement** and staying updated with latest trends in **data engineering and cloud platforms**