

RAMAKRISHNA KARNATI

Azure Cloud Data Engineer — ETL, DevOps, Visualization

📍 Hyderabad, India ✉ ramukarnati2001@gmail.com 📞 +917207000030

🌐 linkedin.com/in/ramakrishna-karnati-899066170 🐙 github.com/RamuK2001 🌐 ramuk2001.github.io

Summary

Results-driven **Full-Stack Azure Cloud Data Engineer** with **3+** years of experience in **ETL & Infra Development, DevOps Automation, and Visualization**. Adept at designing and implementing end-to-end Azure-based data solutions, developing **CI/CD** pipelines, and driving cost-efficient cloud operations. Proficient in **Azure Databricks (ADB), Azure Data Factory (ADF), Azure DevOps, Power BI, and Fabric**.

Skills

Programming: Python, PySpark, SQL, Java, Scala, PowerShell, Unix

Cloud Tools: Azure Data Factory, Azure Databricks, ADLS, Logic Apps, Azure DevOps, Automation Account, Purview, Terraform, ARM Templates, Microsoft Fabric (Warehouse, Lakehouse, Data Engineering, Data Science), AWS (EC2, S3)

Other Tools: Power BI, Git, HTML, CSS, JavaScript, Springboot, Docker, Kubernetes, SonarQube

Soft Skills: Quick learning ability, Problem solving, Critical thinking, Attention to detail, Adaptability, AI prompting

Experience

Specialist Programmer, Infosys, Hyderabad

Aug 2022 – Present

- Built scheduled ADF pipelines integrated with ADLS and ADB to migrate **terabytes** of on-premise data (**SAP, SFTP, Sales-force, on-prem DBs**) into **Unity Catalog** with **99%** success rate, featuring detailed logging and **HTML**-based failure alerts.
- Engineered **event-triggered** pipelines to auto-load files from **ADLS** to target tables, handling **20+** files/day with **99%** automation.
- **Led** a team of **5** to design a scalable **product categorization job** in ADB for over **3 billion** records leveraging lookup tables, keyword matching, and **LLM**-based approaches, achieving over **90%** accuracy.
- Developed generic **PySpark jobs** in ADB for ingesting and processing both **historic** and **incremental** data from flat-files (CSV, Excel, JSON, XML, Parquet) and on-prem DBs via **JDBC**, orchestrated using **REST APIs**.
- Automated ADB **Vacuum & Optimize** and achieved **75%** improvement in query performance by implementing **Partitioning, Z-Ordering**, and **Liquid Clustering** based on the data cardinality.
- Implemented a dynamic **Row-Level Security (RLS)** mechanism in **Unity Catalog** in ADB to restrict data access by user roles and attributes, improving **data governance**.
- Created **Logic App** workflows to extract **SAP** data via **RFC** calls and orchestrated end-to-end data flow.
- Resolved production issues by identifying root causes and implementing fixes in adherence to problem & change management processes.
- Provisioned full-stack Azure environments (ADLS, ADB, ADF, VMs) with private networking via **ARM templates** and **Terraform**, cutting setup time by **85%**.
- Designed a **YAML**-based **CI/CD** pipeline in **Azure DevOps** to deploy ADF and ADB artifacts (notebooks, jobs, pipelines, etc.), incorporating **targeted** deployment feature for improved flexibility and faster release cycles.
- Automated code quality checks by integrating **SonarQube** and **ARMTTK** with the **CI/CD** pipeline, reducing manual review effort by **80%**.
- Developed **PowerShell** scripts utilizing Azure PowerShell modules and Automation Account to generate weekly cost and ADF pipeline performance reports, reducing manual effort by **95%**.
- Built a **centralized Power BI dashboard** to monitor production ADF & ADB jobs using audit logs and Databricks **APIs**.
- Created a **Power BI** SLA matrix report to monitor the SLA breaches in ServiceNow incidents and service requests.
- Supported building an interactive report in **Microsoft Fabric** to visualize sales and revenue data using aggregated metrics like Month-To-Date (MTD) and Year-To-Date (YTD).
- Collaborated with clients and business teams to define visualization requirements, identify key KPIs, and streamline reporting logic for dashboards.

Achievements

- Received **formal client appreciation** for resolving a critical month-end incident beyond project scope and work hours, along with consistent contributions across **multiple areas** of the project.
- Consistently awarded **"Rise Insta Award"** for quarterly top performance.
- Honored with the **"Business Ninja Award"** for impactful contributions.
- Earned **"Outstanding"** year-end appraisal twice for exceptional performance.

Certifications

- [Databricks Certified: Data Engineer Professional](#)
- [Microsoft Certified: Fabric Analytics Engineer Associate \(DP-600\)](#)
- [Microsoft Certified: Azure Fundamentals \(AZ-900\)](#)
- [Microsoft Certified: Azure Data Fundamentals \(DP-900\)](#)

Education

B.Tech. in **ECE Department, Vardhaman College of Engineering, Hyderabad**

Jun 2018 – May 2022

Project: [Autonomous Obstacle Avoiding Robot using Embedded C](#)