

# SUTHAKARAN VENKATACHALAPATHI

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## CARRIER OBJECTIVE

Open to opportunities in Python and data domains, aiming to apply my skills in PySpark, SQL, Azure, and Python to develop scalable, data-driven solutions while continuously expanding my technical expertise and contributing to organizational success.

## PROFESSIONAL EXPERIENCE

**Data Engineer, TCS** JUN 2024 – Present

**Data Engineer** with **1.5 years** of experience at **Tata Consultancy Services**, contributing to end-to-end data solutions that enhance data quality, scalability, and operational performance across cloud-based environments.

### Initial Learning Program (ILP)

- Completed **Initial Learning Program (ILP)** with strong proficiency in **Python, Java** and software development methodologies.

### Project 1: Ookla Enhancement and ENIQ migration

- Enhanced **Ookla data pipelines** for better performance and data flow, applying **pipeline optimization** and **schema evolution** concepts to enable seamless updates
- Developed a **broadband data pipeline for OpenSignal**, processing **Parquet files** and automating data loads, strengthening skills in **ETL design** and **workflow optimization**
- Migrated **100+ tables to Unity Catalog** using **Databricks** and **Azure Data Factory (ADF)**, gaining hands-on experience in **data governance** and **scalable cloud solutions**.
- Worked on **ENIQ migration from Informatica to Azure Cloud**, improving **data accessibility** and applying **cloud integration** and **Databricks** practices.

**Technologies:** PySpark, SQL, Python, Databricks, Azure Data Factory

### Project 2: RB Dispatch

- Migrated **ETL workflows and tables** from **Informatica to Azure Databricks**, applying **data transformation** and **integration techniques** to enhance performance within the **cloud environment**.
- Developed an **Iceberg table on Snowflake** for managing and analyzing **large-scale datasets**, gaining hands-on experience in **data modeling, query optimization**, and **scalable analytics**.
- Utilized **Azure Data Factory (ADF)** and **Azure Databricks** to ensure **seamless data migration** between platforms, improving data flow and reliability across systems.

**Technologies:** PySpark, SQL, Databricks, Azure Data Factory, Informatica

### **Project 3: GPON Optimization**

- Involved in the **end-to-end delivery** of the **GPON Optimization project**, gaining hands-on experience from **requirement gathering to production deployment**, and contributing to improved **system performance** and **data processing efficiency**
- Redesigned and modernized workflows by replacing **25 legacy Control-M jobs** with **4 optimized Databricks and Azure Data Factory (ADF) pipelines**, achieving significant **time and cost efficiencies**.
- Automated **production issue resolution** for **schema evolution, missing data, and source file discrepancies** through **robust code enhancements** and **alert mechanisms**, improving overall **pipeline reliability**.
- Supported **seamless production deployment** and post-release monitoring, enhancing **scalability, stability, and maintainability** of cloud data pipelines.
- Optimized **Databricks and ADF pipelines**, reducing **job runtime by 20 minutes** through **pipeline restructuring and performance tuning**
- Collaborated on **testing and validation activities**, including **unit, functional, and integration testing** in QA, and **documented outcomes** to ensure **data accuracy** and **process transparency**

**Technologies:** Azure Data Factory (ADF), Databricks, Control-m, PySpark, SQL

### **TECHNICAL SKILLS**

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#### **Programming & Frameworks**

- Python, PySpark
- SQL
- Databricks
- Azure Data Factory (ADF)
- Control-m

### **CERTIFICATIONS**

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- Microsoft Certified: Azure Fundamentals Jul 2025- Jul 2026
- Microsoft Certified: Azure Data Scientist Associate (DP -100) Jul 2025 – Jul 2026
- Databricks Certified Data Engineer Associate Jul 2025 – Jul 2027

### **ACHIEVEMENTS**

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-  **Runner-up in TCS AI Friday Competition** for developing a **Bill Explanation Generator** using **Embedding AI Agent, LLM** demonstrating innovation in AI-driven automation

### **EDUCATIONAL QUALIFICATIONS**

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#### **Bachelor of Engineering**

*Bachelor's Degree – Kongu Engineering College, Erode*

**JUL 2019 – MAY 2023**