SALIL SINHA

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Technical Skills

Languages: Python, SQL, Java, Scala
Technologies: Apache Spark (PySpark, Structured Streaming), Delta Lake, Databricks, Airflow, Kafka, GCP (BigQuery, GCS, Dataproc, Pub/Sub), Azure (Data Factory, Synapse Analytics, Data Lake), Unity Catalog
Data Skills: Batch and Streaming Pipelines, Data Modeling, Data Warehousing, Data Migration
Engineering Skills: AI-Assisted Development, GitHub, CI/CD, Multi-cloud Migration, Cloud Cost Optimization

Experience

Walmart Global Tech — *Bengaluru, India*

Software Engineer III – Data Engineering — **Oct 2024 – Present**

- Contributed to enterprise data model changes for **5+ TB of Membership data** across business divisions within Sam's Club on a **multi-cloud architecture, inclusive of Azure and GCP**. Enabled platform upgrades while ensuring uninterrupted business reporting and analytics.
- Optimized **read/write efficiency for Spark Structured Streaming micro-batch** pipelines, boosting throughput, accelerating downstream query performance and lowering job compute consumption. Cut the overall storage footprint by **1 PB in Google Cloud Storage (GCS),** delivering approximately **20K USD in monthly cloud cost savings**.
- Implemented a **modular CI/CD setup** to facilitate Azure to GCP workload migration, integrating enterprise tools for **multi-cloud deployments** and automated code quality enforcement. **Secured ingestion** of externally received financial and marketing data with **PGP asymmetric encryption**.

A.P. Moller Maersk — *Bengaluru, India*

Associate Data Engineer — **Jun 2022 – Sep 2024**

- Developed an **Azure Cloud-hosted inventory management** solution for ocean shipments. Designed **ETL pipelines with Databricks, Data Lake and Data Factory services.** Controlled incoming shipment bookings while ensuring profit optimization, **boosting revenue for 12 existing ocean services by 1M USD.**
- Engineered a cost-plus pricing model for the **Inland Pricing Workbench** with **Azure Synapse Analytics**, covering inland cargo movements, accommodating multiple transportation modalities.

Data Engineering Intern — **Jun 2021 – Jun 2022**

- Upgraded inland pricing workflows and cost breakdown to improve visibility into revenue leakage for worldwide trucking movements. Enabled **machine-learning-optimized margin rules** for pricing experimentation.
- Replaced **licensed UiPath workflows** with **open-source Java automations** for the Hamburg Süd integration, **cutting tooling license costs by 0.8M USD.**

HighRadius Corporation — *Remote*

Full Stack Data Science Intern — **Dec 2020 – Jun 2021**

- Developed a **FinTech B2B invoice management** application. Utilized **machine learning algorithms to accurately predict critical invoice data**. Optimized UI/UX for cross-platform support.

Certifications

Advanced Agentic AI – Production Engineering | Walmart Global Tech | upGrad — **Aug 2026**
Google Advanced Data Analytics | Coursera — **Jul 2024**
Azure Fundamentals | Microsoft — **Jul 2023**
AWS Machine Learning Fundamentals | Udacity — **Jul 2020**
Machine Learning | Coursera — **Jun 2020**

Tech Conferences

Speaker at AZ Conference | Indian Institute of Technology (IIT), Chennai — **Oct 2023**
Presented Inland Pricing Workbench (IPW) and its rollout journey for 120+ countries. — Chennai, Tamil Nadu

Education

KIIT University — **Aug 2018 – Aug 2022**
Bachelor of Technology in Electronics and Telecommunication — Bhubaneswar, Odisha