




# AHMED ALAM

Lead Data Engineer | Big Data & Cloud Expert

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## OBJECTIVE

Experienced Lead Data Engineer with 8+ years of success in designing and delivering enterprise-scale data solutions across banking and pharmaceutical domains. Skilled in architecting modern data platforms, leading cross-functional teams, and collaborating with business stakeholders to translate complex requirements into scalable, cloud-native data solutions. Hands-on expertise in Big Data (Spark, Hadoop), AWS (EMR, Redshift, Lambda, MWAA), and automation using NiFi, Airflow, and Python. Proven ability to deliver data lakes, ingestion pipelines, and BI systems with performance, governance, and cost optimization.

## SKILLS

- **Big Data:** Apache Hudi, Apache NiFi, Apache Airflow, Apache Spark, Hadoop
- **Programming:** SQL, Python
- **Cloud Platforms:** AWS (S3, Lambda, Glue, Redshift, MWAA, EMR), Azure (DP-900 Certified)
- **CI/CD & DevOps:** Jenkins, Bitbucket, Git, Confluence, Jira
- **Data Warehousing & BI:** Data Modeling, Power BI, SSRS, Athena
- **Workflow & API Integration:** REST APIs, Office365 Graph API, OCR (Tesseract, OpenCV)
- **Collaboration:** Business Requirements Gathering, Stakeholder Communication, Agile/Scrum Leadership

## EXPERIENCE

### PRINCIPAL CONSULTANT DATA ANALYTICS, KARACHI

SYSTEMS LIMITED, July 2021–Present

- Processed **5TB+ daily** using Amazon EMR & Apache Spark, improving query speeds by **40%**.
- Designed and implemented **scalable data ingestion pipelines** using Apache NiFi, reducing latency by **30%**.
- Automated data workflows with AWS MWAA (Airflow), improving task execution efficiency by **50%**.
- Optimized costs using AWS Lambda serverless architecture, reducing cloud expenses by **20%**.
- Designed an **event-based pipeline** for automated **Redshift data warehouse loads**, enhancing data availability.
- Developed custom **Python-based API integrations**, streamlining data acquisition from multiple external sources.
- Integrated Office365 services via Python & Microsoft Graph API for **seamless enterprise data extraction**.
- Implemented **CI/CD pipelines using Jenkins**, reducing deployment time by **35%**.
- Led **requirement gathering sessions** with clients to define business needs and data solutions.
- Managed and **mentored a team of data engineers**, ensuring project deliverables were met efficiently.

### DATA ENGINEER, KARACHI

HABIB BANK LIMITED, Feb 2020–July 2021

- Developed **Hadoop-based ETL pipelines**, improving data load performance by **45%**.
- Designed a **Snowflake-based dimensional model**, integrating data from multiple banking systems.
- Ensured **data model consistency and referential integrity** across multiple layers (ODS, staging, and DWH).
- Worked closely with business teams to understand reporting needs and translate them into **optimized DWH structures**.
- Automated **SSRS reports and FTP deliveries**, reducing manual workload by **50%**.
- Built **real-time data pipelines** using Spark Structured Streaming for continuous data processing.
- Built custom reporting solutions that improved visibility into key banking metrics.

### IMPLEMENTATION CONSULTANT, KARACHI

CENTEGY TECHNOLOGIES, July 2019–Feb 2020

- Played a key role in **requirement analysis**, implementation, development, and production phases.
- Established and maintained data warehouses, translating business needs into **technical specifications**.
- Designed, built, and deployed **BI solutions**.

## **DATA ENGINEER, KARACHI**

SYBRID PRIVATE LIMITED A LAKSON GROUP OF COMPANY, Sept 2018–June 2019

- Optimized existing ETL processes, reducing execution time by **30%**.
- Built a **restaurant management data warehouse**, integrating POS and inventory systems.
- Integrated Active Directory (AD) with SQL Server for **enhanced authentication & security**.

## **BI DEVELOPER, KARACHI**

VIFTECH SOLUTIONS, Aug 2017–Sept 2018

- Developed **ETL** processes and **data warehouse** for **mortgage-based systems**, automating data transformations.
- Created **SSRS reports and SQL Agent jobs**, enhancing data visibility.
- Designed interactive dashboards for better business insights.

## **EDUCATION**

### **BACHELORS IN SOFTWARE ENGINEERING**

Mohammad Ali Jinnah University, December 2017

## **LANGUAGE**

- English – Fluent Speaking
- Urdu - Native

## **CERTIFICATION**

- Azure Data Fundamentals (Dp-900)
- Introduction to Python
- Azure Data Engineer (DP-203)
- Introduction to Pyspark

## **Relocation**

- Open to relocate to Saudi Arabia, UAE, and Qatar