

Syed Muhammad Adil

Driven Data Engineer | Skilled in Data Modeling, ETL Processes, and SQL | Eager to Tackle Complex Data Challenges and Deliver Scalable Solutions

Karachi, Pakistan
+92 319 0029022

smaadil688@gmail.com
[LinkedIn](#) | [Github](#) | [Website](#)

Skills

Cloud: AWS

Programming Languages: Python, JavaScript, TypeScript

Data Engineering: Snowflake, AWS (S3, Lambda, RDS), Docker, Apache Airflow

Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Power BI

ETL Processes: Data Extraction, Transformation, and Loading with Python and SQL

EDUCATION

B.COM Part 1

Karachi Commerce College
06/2024

Karachi, Pakistan

Cloud Data Engineering

S.M.I.T (Saylani Mass I.T Training)
11/2023 - 01/2025

Karachi

Work Experience

Digital Banking

[Samba Bank Limited](#) · Internship

09/2024 - 01/2024

Karachi, Pakistan

Achievements/Tasks

- Designed and implemented an ETL pipeline for card transactions, processing millions of records daily, ensuring data accuracy and availability for analytics and reporting.
- Gained in-depth knowledge of digital banking operations, including transaction processing, fraud detection, and customer account management systems, contributing to enhanced project delivery.

Search Engine Optimization Consultant

Freelance (Self employed) · Self-employed

Jun 2021 - Jul 2023

Karachi, Pakistan

Achievements/Tasks

- As a Search Engine Optimization (SEO) Consultant since June 2021, I have worked as a self-employed freelancer, helping businesses and websites improve their visibility on search engines. My role includes conducting detailed keyword research, implementing both on-page and off-page SEO strategies, optimizing content for better ranking, and using analytics tools like Google Analytics to track and measure the success of campaigns. I have experience with e-commerce SEO, data-driven marketing insights, and boosting organic traffic for various clients across different Industry.

Projects

Comprehensive Data Engineering Ecosystem ([link](#))

Associated with S.M.I.T (Saylani Mass I.T Training)

- Developed a robust and scalable data engineering ecosystem integrating multiple tools and technologies for efficient data processing, analysis, and management.
- Designed real-time and batch data pipelines leveraging Apache Kafka for streaming, Amazon S3 for centralized storage, and AWS Glue for metadata management.
- Automated workflows using Apache Airflow, orchestrating data ingestion, transformation, and loading into Snowflake for advanced analytics.
- Integrated external APIs like OpenWeather for enriched analytics, and implemented AWS Lambda and SNS for event-driven notifications.
- Key achievements include building real-time streaming workflows, centralizing data storage in a scalable data lake, and enabling metadata-driven transformations.

Technologies Used: Apache Kafka | Amazon S3 | AWS Glue | Apache Airflow | Snowflake | AWS Lambda | Python | SQL

Parallel Processing ETL Pipeline ([link](#))

Associated with S.M.I.T (Saylani Mass I.T Training)

- Developed a parallel processing ETL (Extract, Transform, Load) pipeline for optimized data workflows. and technologies for efficient data processing, analysis, and management.
- Leveraged Apache Airflow for task orchestration, ensuring efficient management of dependencies and scheduling.
- Extracted real-time weather data from OpenWeather API, parallelizing tasks across multiple regions and time periods for enhanced performance.
- Transformed data through cleaning, filtering, and aggregation, utilizing parallel tasks to expedite processing.
- Loaded processed data into Amazon RDS for structured storage and Amazon Data Lake for scalable, long-term storage solutions.

Technologies Used: Apache Airflow | OpenWeather API | Amazon RDS | Amazon Data Lake | EC2 Instances

Slowly Changing Dimensions in Snowflake Using Streams and Tasks ([link](#))

Associated with S.M.I.T (Saylani Mass I.T Training)

- Designed and implemented real-time streaming workflows.
- Centralized data storage in a scalable S3-based data lake.
- Amazon S3 for centralized storage, and AWS Glue for metadata management.
- Orchestrated metadata-driven transformations and automated workflows. and loading
- Enhanced analytics with enriched data integration through external APIs.
- Improved data governance and operational efficiency using AWS Lambda and SNS.

Technologies Used: Snowflake (Snowpipe, Streams, Tasks) | Amazon S3 | Docker | Apache NiFi | Jupyter Notebooks