Muhammad Saqib Sohail

Data Engineer || AWS Solution Architect Associate & Cloud Practitioner Certified

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HIGHLIGHTS

8 years of both client and vendor side industry experience which includes the domain of data engineering, data wrangling, ETL/Data pipelines, Busines Intelligence, data science, Machine Learning and OLTP & OLAP systems.

Worked on

- ❖ ETL Pipelines Development (**Teradata Utilities/Python**)
- ❖ Machine Learning (**Python**)
- ❖ Reporting Tools (**Tableau- Power BI**)
- ❖ Databases (**Teradata - Oracle - PostgreSQL**)
- ❖ Performance Management Solution (**OPTIMA**)
- ❖ Statistical Analysis Systems (**MA-RTDM-EM**)
- ❖ Middleware Applications (**Tertio -SIP**)

- ❖ Proficient in data mining and data transformation using SQL/python.
- ❖ Have good knowledge of Machine learning techniques and algorithms.
- ❖ Quick learner, energetic, team player with good communication, problem solving and analytical skills.

Skill	Level
Data Engineering	●●●○
Data Wrangling	●●●○
Python/Shell	●●●○
SQL	●●●○
DWH Architecture	●●●○
Teradata	●●●○
PySpark	●●○○
Machine Learning	●●○○
Tableau/Power BI	●●○○
Oracle & Postgres	●●●○
SAS Applications	●●●○
AWS	●○○○

PROFESSIONAL EXPERIENCE

SENIOR DATA ENGINEER May 2021–Present **TERADATA**	**Jazz Greenfield Implementation Project – Jazz Pakistan:** ❖ First individual in Teradata GDC to successfully offload data from Teradata to Minio Object storage leveraging Teradata NOS functionality & Minio client. ❖ Created seamless Tabular access layer on Minio hosted data for business users, analyst, and data scientist for analysis, reporting and querying. ❖ Reduced overall ETL pipeline development time by automating repetitive and manual tasks using Python and Shell scripting. ❖ Managed ETL Operations, Troubleshoot and fixed issues in ETL pipelines and ensured stability. ❖ Developed parser for semi-structured AWS S3 hosted JSON/XML data ([IRS 990 Filings](#)), extracted relevant information and pushed data to Postgres Database.
DATA ENGINEER SPECIALIST Jan 2018–May 2021 **TELENOR PAKISTAN**	**Data Engineering:** ❖ Developed parser/utility to generate scripts used to migrate data from Teradata to Vertica and reduced overall migration time. ❖ Created data pipeline for SAS RTDM logging and customer profile data between Teradata & PostgreSQL. ❖ Parsed RTDM unstructured error logging data and loaded into Teradata for reporting and better troubleshooting. ❖ Written python script for cleaning, transforming, and merging Nokia 2G,3G and 4G data files for hourly site level analysis. **Application Planning/Operations:** ❖ Managed SAS applications operations, ensured high availability of system and helped company to achieve revenue targets. ❖ Installed & migrated SAS RTDM, E Miner & CLA applications and respective models/campaigns/data/processes from SAS 6.4 to 6.5. **Machine Learning:** ❖ Developed model in python to predict potential customers, most likely to opt 4G SIM using multiple machine learning algorithms.

PRODUCT DEPLOYMENT AND SUPPORT ENGINEER Jun 2015– Dec 2017 **AIRCOM INTERNATIONAL** AIRCOM A ⬧TEOCO COMPANY	**Data Engineering:** ❖ Deployed Optima and Integrated with multiple 2G, 3G and 4G sources for network related data extraction and mining. ❖ Developed scripts to clean, filter and transformed data for loading into respective raw tables/staging layer. ❖ Created SQL scripts/procedure to aggregate the data at different granular level for reporting and analytics. **Analysis & Reporting:** ❖ Developed dashboard and reports for network KPIs and performance reporting to top management for decision making. ❖ Performance tuning of database by query optimization, rebuilding indexes, minimizing joins, gather stats and oracle Hints. ❖ Provide technical support to customers and ensured data quality and completeness and maintained system/database health.
BSS OPERATIONS OFFICER Mar 2013– Jun 2015 **TELENOR PAKISTAN** telenor	**Operations & Data Quality:** ❖ Was responsible for operational and administrative tasks of business-critical middleware platforms. ❖ Did manual and automated reconciliation of customer's and product's data between BSS and other technical BSS systems. ❖ Reported system's and customer's stats to relevant stakeholder for analysis and data anomalies/mismatch identification

PROFESSIONAL PROJECTS

Telenor Pakistan
❖ With negligible down time, smoothly **migrated the Tibco to Jboss APIs** for SAS RTDM platform.
❖ Migrated and upgraded SAS RTDM application and relevant data from SAS base 6.4 and SAS base 6.5.
❖ Blocked full subscriber base of Telenor Pakistan under **Biometric Verification System (BVS)** project and devised a channel for unblocking of customer's number that saved huge amount of company cost.
❖ Supported Company in achieving Gross Adds and FCA Goal (**Bulk provisioning 2014**).
❖ **Project Trango/CBS Cutover** (Operations support role).

Aircom International
❖ Assisted Optima deployment at **Etisalat Egypt** and created parsers for data extraction & parsing and multiple reports.
❖ Integrated Optima SNMP alarm agent with HP TeMIP for **Asiacell, Iraq** (on-site Project) and delivered **4 weeks training** to customer for Optima 7.0 (off/on-site Project).

TRAININGS & COURSES
❖ Completed '**Applied Data Science with Python**' specialization (*5 courses*) University **of Michigan - Coursera.**

   ❖ Introduction to Data science in Python
   ❖ Applied Plotting, Charting & Data Representation in Python
   ❖ Applied Machine Learning in Python
   ❖ Applied Text Mining in Python
   ❖ Applied Social Network Analysis in Python

❖ Neural Networks & Deep Learning **deeplearning.ai - Coursera**
❖ 6 Weeks Business Intelligence course (Tableau, MicroStrategy & Power BI) - **Dice Analytics**.
❖ Python Essential training & Data Wrangling in R – **Lynda**
❖ Hadoop and Spark Training- **Abcdata/Telenor Pakistan**.

QUALIFICATION
Bachelors in Information and Communication System Engineering (2008-2012)   **3.34**
National University of Sciences and Technology, NUST, Islamabad