

Muhammad Raheel Fazil

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Overview

Highly analytical and process-oriented data analyst with in-depth knowledge of database core concepts, data capture, curation, manipulation and visualization. Furnish insights, analytics and business intelligence used to advance opportunity identification, process reengineering and corporate growth. Having experience more than 12 years.

Skills

<ul style="list-style-type: none">• Apache Spark• Apache Kafka• Data Pipelines• Extract, Transform, Load (ETL)	<ul style="list-style-type: none">• PySpark• Regression Analysis• Big Data Analytics• Machine Learning	<ul style="list-style-type: none">• Data Analysis• Data Visualization• Python• Pandas
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Tools/Languages

Languages	Tools
<ul style="list-style-type: none">• Python• SQL• Shell Scripting• VBA	<ul style="list-style-type: none">• SQL server• Excel Power Query• Power BI• postgres db

Custom Tools

- I have developed these tools using python, vba, power query and MS Access in Telecom sector
- Neighbors Audit tool for Mapinfo
 - 2G3G4G Discrepancy/Audit tool in MS Access
 - 2G3G4G Ericsson parser
 - 2G3G4G KPIs visualization using python (matplotlib)
 - 2G3G4G parameters parser and discrepancy audit using python (BeautifulSoup)
 - 3G Huawei RRU/Power and other Audits Tool

Professional Summary

- Working on big data using Pyspark, Kafka and Redis
- Design and implement ETL Data pipelines for different use case scenarios
- Data Analytic and Data engineering for mobile drive test logs
- Develop full python programs/scripts then deploy on product end
- Extract data from postgres db then analyze/transform for certain condition and requirements
- Debug python scripts and modify for new requirements
- Preparing data for ML requirements and predicting required analysis
- Hands on experience on VBA/Power Query/MS Access and Python for data analysis and audits tools development
- Expert using different python library/packages like Pandas, numpy, matplotlib, BeautifulSoup and bs4
- Use SQL Server/SSMS KPIs Data base for Modernization Project of Ericsson/Huawei Pre/Post KPIs benchmark.
- Responsible for automation of all optimization tasks using VBA macros, power query and python
- Did trial and deploy 4x4 MIMO, Massive MIMO and 4T6S Huawei solutions
- Did trial and deploy new LTE L2100 layer for Jazz (Operator) network nationwide

- Plan and Proposed new end to end LTE cell selection/reselection strategy for better customer experience to Jazz (Operator) network nationwide
- Did trial and deploy adaptive CA strategy for Jazz network
- Troubleshooting of complex network issues using UU/X2/S1 trace analysis
- LTE Multi-carrier Deployment and Strategy Optimization.
- Made MS Access tools for Network Discrepancies Audit.
- Network Capacity Evaluation, Auditing and Optimization.
- LTE multi-layer traffic balancing, using MLB and band priority.
- LTE Network KPI Analysis, Performance Management and Capacity Enhancement.
- Propose new 3G/LTE sites or band addition to enhance capacity or coverage.
- Monitoring KPIs and recommend trials, parametric or redesign changes accordingly.
- Analyze Layer 3 Message to find Blocked call, ERAB, RRC & IRAT HO failure, Dropped call & abnormal network behavior.

Professional Experience

SWI (Aircod Technologies), Pakistan

Oct-2022 - Present

Senior Data and Analytics Engineer

Working on big data using Pyspark, Kafka and Redis. Design and implement ETL Data pipelines for different use case scenarios. Data Analytic and Data engineering for mobile drive test logs. Develop full python programs/scripts then deploy on product side. Extract data from postgres db then analyze/transform for certain condition and requirements. Debug python scripts and modify for new requirements. Preparing data for ML requirements and predicting required analysis.

HUAWEI Technologies, Pakistan

Apr-2019 – Oct-2022

Senior LTE RNO

Working for Jazz project

Responsible for LTE new features trials and deployment. Make sure successful deployment to all rollout sites then also approvals from customer. Troubleshooting of complex issues in feature implementation to rollout sites. Successfully improve and meet the customer SLAs and KPIs for rollout project.

Etisalat (Reach Employment) Dubai, UAE

Mar-2018 – Mar-2019

RF Planning and Optimization Engineer

Daily worst cells and network level KPIs analysis and troubleshooting. New 2G/3G/4G sites pre-launch parameter optimization, baseline audit and tuning. New Sites Planning, Propose Monthly/Events/Eid/New Year Expansion and reconfigurations 2G/3G/4G. Daily project activities Pre/Post KPIs benchmark and optimization of degraded KPIs. Redesign according to capacity and coverage. Handling Modernization project of Ericsson/Huawei, Huawei/Ericsson and Ericsson/Nokia swaps. Parameter audits of 2G/3G/4G after activities and after swap. Database handling of parameters and KPIs in Access, SQL and python.

TEOCO (Aircom International) Dubai, UAE

Jan-2013 – Feb-2018

RF Planning and Optimization Engineer

Working for Etisalat project.

New Sites tuning, 2G/3G Cell Plans, Neighbors/Frequency/Parameters/Baseline Audit, Cell level/Cluster level Optimization. Propose Monthly Expansion 2G/3G.

Pre/Post KPIs analysis taking actions accordingly for the degraded cells of daily project activities.

HUAWEI Technologies, Lahore, Pakistan

Jan-2012 – Jan-2013

RF Engineer

Work for Ufone project.

Responsible for DT, DT Post Processing Reports, KPI Reports, DT log analysis, Sites tuning Cell Level Optimization, 2G Cell Plan, Neighbor Addition/Deletion,

ZTE Pvt Ltd, Lahore, Pakistan

Oct-2010 – Jan-2012

DT Engineer

Work for ZTE project.

Responsible for DT, DT Reports, Log files analysis.

PTCL, Gujranwala, Pakistan

Apr-2010 – Oct-2010

MM & BB Team Leader

Responsible for BB team

HUAWEI Technologies, Lahore, Pakistan

Internee

Certifications

Apache Spark Essential Training: Big Data Engineering

2023

<https://www.linkedin.com/learning/certificates/f60b083c0fc9fff5ec0922b996c3246688d1bc559d339fd144db3b5b72d8c827>

ETL and Data Pipelines with Shell, Airflow and Kafka

2023

<https://www.coursera.org/account/accomplishments/certificate/HJ6N7C866HB4>

Education

Institute of Engineering and Technology (AIOU) Lahore, Pakistan

2010

Graduate: BE Telecom (Engineering)

References and supporting documentation will be furnished upon request.