

GULZAR AHMED BUTT

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PROFESSIONAL EXPERIENCE

Norconsult Telematics – Data Analyst

Riyadh | May 2023 – Present

- Conducted detailed junction analysis as a part of Riyadh Traffic Transformation Project, optimizing signal timing and traffic patterns to improve intersection throughput by 10% and cut disruptions by 12%.
- Performed origin-destination analysis using TomTom traffic data to monitor trips during high-demand corridors surrounding key venues which led to a 10% reduction in average city commute times.
- Implemented a route monitoring framework surrounding major ring roads to track high-traffic corridors and incident-prone areas, enabling real-time interventions and long-term traffic flow improvements.
- Presented real-time dashboards for STC's Mission-Critical Network Program covering Scope of work level, Activities level, and work order level by extracting data from Bunya Project Management System.
- Solved data accessibility issues by embedding Power BI dashboards into a Python-based web platform, significantly improving stakeholder access and visibility.
- Delivered end-to-end project management dashboards using Power BI for Saudi Company for Artificial Intelligence (SCAI), enabling real-time tracking of project KPIs and automating complex data transformation from Excel and SQL databases, providing consistent results despite strict deadlines.

Ascend Healthcare Solutions – Associate Analytics Consultant

Riyadh | Nov 2021 – May 2023

- Resolved the lack of customized insights for Health Holdco by developing Power BI dashboards and integrating patient flow, inturn improving real-time data-driven decision making.
- Streamlined ETL pipelines from disparate health data sources, ensuring accurate representation for strategic healthcare planning and resource allocation.
- Led analytics integration for AI ULA healthcare transformation, aligning data infrastructure with national digital health objectives.
- Automated performance reporting using Python and SQL, enabling near real-time monitoring and operational efficiency.

Merafuture.pk – Data Scientist

Islamabad, Pakistan | Sep 2020 – Aug 2021

- Designed and implemented a nationwide student aptitude data collection and cleansing framework using Power BI, applying outlier removal techniques to enhance data quality and extract actionable insights for improved academic prowess.
- Leveraged Machine Learning by deploying an optimized Random Forest model via Python Flask on Google App Engine and predicted students' potential career fields with improved accuracy and enabled real-time personalized assessments.

PERSONAL PROJECTS

OCR Application using mini CPM-V Model | Python, Ollama

- Built an OCR tool leveraging the miniCPM-V model optimized for image-based tasks and extracted and transformed text data from images into structured, analyzable formats.

Traffic Data Integration | Python, TomTom API, OLAP

- Designed and implemented an ETL pipeline to extract traffic data from TomTom APIs and performed data cleansing and transformation to align with OLAP database schema.

Loan Default Prediction Model | Python, Scikit-learn

- Designed a classification model to predict loan defaults in alignment with the Equal Credit Opportunity Act to deliver feature-based recommendations that support explainable credit approval decisions

Olympics Data Exploration | Transact-SQL

- Explored 120 years of Olympic results using Transact-SQL on SQL Server, focusing on data analysis through advanced queries while analyzing trends in athlete participation and medal distribution using data sourced from Kaggle.

EDUCATION

University of Liverpool – PG Certification in Artificial Intelligence

National University of Sciences and Technology (NUST) – B.E. in Software Engineering

CERTIFICATIONS

Microsoft Azure Data Fundamentals (DP-900) – Microsoft [Digital Credential](#)

Data Engineering using Microsoft SQL Server Tools – Microsoft [Digital Credential](#)

Applied Data Science – Massachusetts Institute of Technology [Digital Credential](#)