Rabeez Riaz

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Education

Lahore University of Management Sciences Lahore, Pakistan

Degree: Bachelor of Science in Computer Science 2015 - 2019

Relevant Coursework: Data Mining, Information Theory, Machine Learning, Deep Learning, Computer Vision, Natural Language Processing, Digital Image Processing, Program Analysis

Experience

QuantumBlack, AI by McKinsey Dubai, UAE

Lead Data Scientist September 2023 - October 2024

- **Deployed** data pipelines consolidating historical data from ~50 of organizations and multiple data sources including SQL databases, expense reports and vendor contracts.
- **Developed** predictive models for expense forecasting and optimization, generating retrospective cost reduction recommendations for 5 previous years in collaboration with public finance experts.
- **Collaborated** with cross-functional teams and business stakeholders on technical requirements to deliver real-time dashboards, enhancing executive decision making efficiency in 4 business units for a public sector client.

QuantumBlack, AI by McKinsey Dubai, UAE

Senior Data Scientist September 2021 - August 2023

- **Designed** exploratory data visualizations and built churn propensity models for a retail banking client, reducing account activity churn across 3 retail baking products.
- **Enhanced** BI workflow at an e-commerce client by developing a datamart with custom metrics for website user activity using a clickstream database.
- **Prototyped** a 'CVM-in-a-box' product to support analysts with common CVM activities including designing and tracking AB-test metrics, defining custom customer segments and assessing health of universal control groups.
- **Built** an online advertisement recommender system using a clicksteam data pipeline for an e-commerce client.
- **Researched** and advised on design of analytics strategies for various internal teams including specialized topics such as geospatial visualizations, image processing pipelines and modelling statistical uncertainty.
- **Engineered** tools such as web scrapers, analytics pipelines and document parsers to support workflows of non-technical team members.

McKinsey & Company Karachi, Pakistan

Data Scientist September 2020 - August 2021

- **Contributed** an automated feature generation module to McKinsey's customer analytics library (CustomerOne), improving model quality for dozens of global analytics teams.
- **Developed** a Python-based transaction analytics toolkit for Oil & Gas clients, utilized in 5 global projects to improve operational efficiency.

McKinsey & Company Karachi, Pakistan

Data Science Fellow September 2019 - August 2020

- **Trained** machine learning models for a telecom client, enhancing subscription renewal rates by 5% points.
- **Executed** multi-phase AB-tests to identify causal drivers of behavior across 15 million telecom customers.

Skills & Interests

Analytics: pandas, NumPy, Polars, scikit-learn, XGBoost, TensorFlow, PyTorch, dplyr, tidyr, tidymodels, NLTK, spaCy, OpenCV, GeoPandas, PyMC3, Jupyter, Kedro, PySpark, NetworkX, PuLP

Visualization: Matplotlib, Seaborn, Plotly, Dash, Altair, Streamlit, ggplot2, Vega, Tableau, nxviz

Languages: Python, R, SQL, Go, JavaScript

Web Development: Flask, FastAPI, HTMX, Node.js, Jinja, Templ, Tailwind CSS

Developer Tools: Git, Linux, Docker, CI/CD, Automated Testing, Makefiles, Selenium

Interests: Fantasy novels, anime & manga, video games, food history, developer productivity