Rukhshan Arif Mian

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SUMMARY

I leverage expertise in Python, SQL, and cloud technologies to design scalable pipelines, develop predictive models, and generate actionable insights that drive decision-making.

EDUCATION

University of Chicago, Harris School of Public Policy — Chicago, IL
Master of Science, Computational Analysis and Public Policy — June 2021

Lahore University of Management Sciences — Lahore, Pakistan
Bachelor of Science, Economics — June 2018

WORK EXPERIENCE

Bloomberg Center for Government Excellence (GovEx) — Remote, US
BI & Data Analytics Consultant — July 2023 – Feb 2025

- Led the data integration and processing for a city-wide dashboard visualizing socioeconomic indicators for 100 U.S. cities, ensuring accurate and timely reporting.
- Co-led an initiative to monitor and track federal dataset removals under the new U.S. administration, leveraging APIs, Python, and GitHub Actions for automated detection and reporting.
- Built scalable ETL pipelines processing 6M+ observations from 12 data sources, achieving 80% faster processing speeds through parallel computing (Python, SQL).
- Optimized PostgreSQL export processes, reducing runtime by 75% with incremental updates, enabling faster and more efficient data transfers.
- Implemented rigorous data validation protocols, reducing errors by 70%, ensuring data integrity and reliability for visualization and reporting.

The Coleridge Initiative, Inc — New York, NY
Associate Research Scientist — July 2021 – June 2023

- Designed and optimized data pipelines to process over 500 million records in AWS Redshift, improving data ingestion, transformation, and reporting efficiency.
- Applied predictive analytics and unsupervised machine learning to uncover demographic trends in workforce data, providing actionable insights into wage patterns.
- Developed and improved data workflows to link administrative datasets, enabling streamlined reporting and data-driven decision-making (Python, R, SQL).
- Collected, processed, and visualized labor market data to analyze unemployment trends in Illinois and Indiana, providing actionable insights for workforce policy and economic decision-making (Python, SQL, Tableau).
- Led training sessions for 30+ public sector officials on data analytics for education and workforce policy, covering data quality, imputation, and predictive modeling techniques to support policymaking.

University of Chicago — Chicago, IL
Part-time Data Assistant — June 2020 – June 2021

- Conducted analysis on 7TB of health insurance claims data (MS-SQL, Stata) to generate insights on comorbidity-related mortality risk to support health policy research.
- Automated data workflows and reporting processes using Python and Stata, reducing turnaround time by 50% and improving operational efficiency.

Center for Economic Research in Pakistan (CERP) — Lahore, Pakistan
Research Assistant, Women's Mobility Program — July 2018 – July 2019

- Supported the implementation of a Randomized Controlled Trial (RCT) to analyze the impact of women-only transport on female mobility, employment, and job outcomes, providing data-driven insights for policy decisions.
- Designed and maintained data integration processes to link household and labor market datasets with over 200,000 observations, enabling in-depth analysis of job search behavior.
- Trained 30+ field researchers on data collection, validation, and management using SurveyCTO, ensuring data quality and consistency for analytical reporting.

Technical Skills

- **Programming & Data Analysis:** Python, R (RStudio, RMarkdown), Stata
- **Databases & SQL:** PostgreSQL, AWS Redshift, MSSQL Server, SQLite, Snowflake, Prisma
- **Cloud Platforms:** Amazon Web Services (AWS), Google Cloud
- **Data Collection, Automation & Orchestration:** GitHub Actions, Airflow, Zapier, AirTable, SurveyCTO