Altamash Rafiq

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EDUCATION

Duke University Graduate School

M.S. Interdisciplinary Data Science

GPA: 3.9

Duke University

Final Year Capstone Project:

Developed an open set logo detection software toolkit for cybersecurity firm **Proofpoint Inc**

Github: AltamashRafiq/OpenWorldLogoDetection

B.S. Statistical Science, **B.A.** English Literature

GPA: 3.6 Honors: Full Four-Year Scholarship, Dean's List with Distinction

Durham, NC, United States August 2014 – May 2018

Durham, NC, United States

August 2019 – May 2021

DATA SCIENCE SKILLS

Programming Languages

Python: Pandas, NumPy, MatplotLib, PySpark, sklearn, lightgbm, xgboost, PyTorch, Keras, pyppeteer

R: tidyverse, tidymodels, shiny, rvest, sparklyr, highcharter

Additional: C / C++, PostgresSOL

Proficiencies

Cloud Computing, Machine Learning, Statistical Modeling, Deep Learning, Big Data Mining, App Development, Tableau Dashboard Development, Geospatial Modeling.

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DATA SCIENCE WORK EXPERIENCES

2nd Order Solutions

Data Scientist Intern - Remote

Glen Allen, VA, United States

- June 2020 August 2020
- Produced data-driven lending strategy solutions for a Top 10 US bank client through predictive modeling on their customer acquisition, performance, and relationship data.
- Developed a comprehensive auto-modeling script for our client to identify, quantify, and stress-test the degradation in their customer acquisition model caused by COVID-19's impact on credit bureau and internal financial data.
- Produced a customer segmentation framework that identified the 3% of our client's customer base at 11x higher risk of financial hardship from COVID-19 using Gradient Boosting Machines and Decision Trees.
- Extensively utilized PySpark to extract, clean, and prepare large amounts of customer data for credit risk modeling.

Duke Fuqua School of Business

Head Teaching Assistant – M.S. Business Analytics

Durham, NC, United States March 2018 – August 2020

- Courses: Fraud Analytics (three semesters), Analytics Capstone, Programming Fundamentals for Business.
- Developed assignments on fraud detection/analytics techniques as well as Python and R programming fundamentals.
- Provided programming and machine learning consulting services for Capstone Project teams analyzing industry data.

Duke Interdisciplinary Social Innovators

Student Consultant

Durham, NC, United States

September 2019 – December 2019

- Developed a database management system using Metabase for Book Harvest, a non-profit organization, to streamline their time series data analysis and visualization.
- Implemented and populated a PostgreSQL database on Amazon Web Services to centralize Book Harvest's data.
- Utilized R and Excel to clean and aggregate 6 years' worth of unorganized and disparate book distribution data.
- Worked with Book Harvest representatives to develop their data collection, management and analysis strategy.

Centre for Economic Research in Pakistan

Lahore, Pakistan

Data Analytics Intern

June 2019 – July 2019

- Analyzed data and developed interactive data visualizations for Pakistani government, NGOs, and legal institutions.
- Developed R Shiny app to visualize public health, education, and living standards survey data (300+ surveyed items).
- Prepared/delivered presentations and reports on interactive data visualization in R and Javascript.
- Coded, using OpenDataKit and SurveyCTO, surveys administered in multiple schools.

LEADERSHIP EXPERIENCES

Ad Astra Counselling

Co-Founder & Team Head

Lahore, Pakistan

July 2015 – April 2019

- Founded Ad Astra Counseling, one of Pakistan's most successful private college counselling startups.
- Provided personalized counseling to private clients and students at partnered high schools, helping them secure admissions at dozens of top-tier universities like Harvard, Princeton, and MIT.
- Led team of 12 counselors and helped increase annual revenues from 1M to 7M rupees over 4 years.