Marium Sultan

Phone: 9255779293 ● E-Mail: marium.azam.sultan@gmail.com
LinkedIn: https://www.linkedin.com/in/mariumasultan ● GitHub: MariumS

Education

New York University, Center for Urban Science and Progress — Class of 2019
M.S Applied Urban Science and Informatics — NY, NY
Selected Coursework: *Data Governance, Ethics and Privacy, Applied Data Science, Mapping and Spatial Data Visualization, Large Scale Data Analysis I and II, Principles of Urban Informatics*

Middlebury College — Class of 2016
B.A. in International and Global Studies – South Asia focus — Middlebury, VT

Selected Experience

Legal Hand, Jamaica — March 2018– Present
Client-facing advocate — Queens, NY
-Provide information, resources, and referrals related to family law, public benefits, housing law and immigration.

NYU CUSP/ Department of Health and Mental Hygiene — Feb 2019 – Aug 2019
Researcher — NY, NY
-Cleaned and merged from a half-dozen public and private sources, using pandas, numpy, and geopandas
-Ran random forest, decision tree, and SVM models in Python to predict high-risk violations in childcare centers, resulting in a maximum achieved accuracy of .94
-Created interactive map to aid in spatial conceptualization of the problem, using MapboxGL and JavaScript
-Delivered report describing methods, results, and limitations to stakeholders, with visualizations created in Tableau

Center for K-12 Stem Education — Sep 2018 – June 2019
Middle School STEM Teacher — Queens, NY
-Prepared and taught Science of Smart Cities curriculum, focusing on engineering, physics, programming and mechatronics related to urban logistics

ARGO, Applied Research in Government Operations — Winter 2018/2019
Development Intern — Virtual/ NYC
-Furthered work on a Python library for aggregating American Community Survey statistics to other geographical boundaries (such as water districts).

Consortium for Gender, Security and Human Rights — Spring 2016
Data Management Intern — Boston, MA
-Edited documents and wrote up original research on topics related to war's global effect on women
-Assisted with planning and hosting the annual speaker series
-Prepared and presented training on Zotero and ResearchHub to incoming volunteers

Middlebury College — 2015-2016
Research Assistant — Middlebury, VT
-Coded interview data, researched statistics, edited content, and wrote analytic sections on human rights and fair pay.
-Co-authored the Bill and Melinda Gates Foundation funded paper "The Effects of Per Diems on Community Health Worker Motivation: Evidence from the Global Polio Eradication Initiative"

Achievements
-Finalist for The HackItTogether Women's Hackathon for the concept of a mobile app to link women with other female-identifying travel buddies for safety on similar short trips. (2019)
-First place team in L-Train Shutdown Hackathon for idea to promote flexible office schedules and spaces in order to mitigate rush hour inter-boro traffic (2018)
-First place team in CUSP Hackathon for project on detecting modern slavery (2017)

Skills
-Programing: python, SQL, JavaScript
-Machine Learning: linear/logistic regression, naïve bayes, neural networks, random forest
-Visualization: matplotlib, plotly, carto, ArcGIS, QGIS, Tableau, MapboxGL
-Data Analytics: pandas, geopandas, sklearn, statsmodels, scipy, weka