



Zohaib Syed

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OBJECTIVES

Seeking an impactful role on a data and analytics team where I can leverage my versatile data analytics skills and strong foundation in mathematical analysis to support critical business decision-making

EDUCATION

University of Minnesota

St. Paul, MN

Data Visualizations and Analytics Certification (Expected)

Feb 2019

Intense 6-month certification program covering advanced analytics, data visualization, and data science leveraging the latest tools and methodologies (e.g., advanced statistics, machine learning, R, Python)

Minnesota State University

Mankato, MN

Bachelor of Science in Mathematics with minor in Economics

May 2018

Advanced and graduate-level coursework (2+ years) with a deep emphasis on mathematical analysis. Topics extensively covered included Real Analysis, Complex Analysis, Measure Theory, and Partial Differential Equations

SKILLS

- *Disciplines:* Mathematical Analysis, Numerical Analysis, Measure Theoretic Statistics, Sentiment Analysis (Twitter, Yelp, etc.), GIS
- *Tools:* Hadoop, Flask, Shiny, Heroku, Tableau, Wolfram Mathematica, Excel/VBA
- *Languages:* Python, R, Javascript, SQL (as well as popular libraries)
- *Databases:* MongoDB, MySQL, SQLite
- *Libraries:* Pandas, Matplotlib, D3, Plotly, Leaflet, Splinter, Tweepy, and more
- *Other:* Fluent in English, Hindi, Urdu, and conversational Spanish.

SAMPLE OF RELEVANT PROJECTS

Mathematical algorithm optimization for multi-function healthcare worker scheduling

Mathematical algorithm development for a real, modern-day version of this age-old problem. Formulated practical strategies to balance accuracy and efficiency (i.e., a near-optimal solution without going through the typical exhaustive search)

- Summarized Report: https://github.com/ZohaibS/NSP/blob/master/Scheduling_Nurses.pdf

Automated data scraping, storing, and rendering

Scraping web for recent news, weather, and image data of the Red Planet and then rendering it for users in a local browser window (in clean HTML)

- *Tech Used:* Python, Splinter, BeautifulSoup, Flask, MongoDB, PyMongo, Jinja2
- *Static (past) Report:* https://zohaibs.github.io/mars_scraper/index.html
- *Code:* <https://github.com/ZohaibS/A-Glance-at-Mars>

Data analysis and visualization (using public APIs)

Web application that analyzes weather patterns of 500 randomly selected cities (based on coordinates), with further potential for deep insights during critical seasons (e.g., El Nino)

- *Tech Used:* Python, Pandas, Matplotlib, OpenWeatherMap APIs
- *Past Report:* https://zohaibs.github.io/Visualization_One/dashboard/v1_landing_page/viz_1_lp.html
- *Code:* <https://github.com/ZohaibS/WeatherPy/blob/master/WeatherPy.ipynb>

LEADERSHIP & VOLUNTEERING

Southern Minnesota Regional Science Fair

2014-2017

Consistently volunteered at elementary and middle school science fairs. Engaged students in STEM topics and judged entries at each fair