Soha Tariq

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Portfolio: https://sohat7.github.io/Portfolio/

Data analyst who recently earned a certificate in Data Analytics from Columbia University, with a background in mathematics and economics. Experienced in handling large datasets consisting of structured, semi-structured, and raw data. Past work includes collaborating across diverse groups to support detailed and efficient analysis. Strengths include analytical problem-solving, empathic teamwork, and effective communication.

Technical Skills

Languages: Python, R, SQL, HTML5, CSS, JavaScript ES6+
Applications: MySQL, MongoDB, PostgreSQL, GitHub, AWS, Flask, Tableau, VBA
Tools: Excel, APIs, ETL, Hadoop, NumPy, Scikit-Learn, TensorFlow, Pandas, Plotly, Matplotlib

Projects

Credit_Risk_Analysis | GitHub Link: https://github.com/SohaT7/Credit_Risk_Analysis
Analyzes which supervised machine learning model best predicts a high risk loan.
- Role: Sole author
- Tools: Python, Jupyter Notebook, Machine Learning

Mapping_Earthquakes | GitHub Link: https://github.com/SohaT7/Mapping_Earthquakes
Creates map visualizations for earthquakes in the past week, with options to view in 'street', 'satellite', and 'dark' modes, as well as to overlay with tectonic plates and major earthquakes.
- Role: Sole author
- Tools: JavaScript, HTML, CSS

MechaCar_Statistical_Analysis | GitHub Link: https://github.com/SohaT7/MechaCar_Statistical_Analysis
Reviews car manufacture related production data to generate insights that may aid the manufacturing team in the future.
- Role: Sole author
- Tools: R

Relevant Experience

Success Academy   Bronx, NY
Sprint Associate   June 2021 - Nov 2021
- Managed the provision of academic, behavioral, psychological, and socio-emotional support to the students requiring special educational services.
- Monitored the student population of 625 at the school via Excel databases and class observations in order to catch on early those that might require the services.
- Monitored the Intervention Cycles for more than 15 students, with an increase in their graduation rate by about 10%.
- Conducted meetings with NY State Education Department personnel, teachers, and parents, in order to finalize the IEPs (Individualized Education Plans) for 5 students.

Lahore University of Management Sciences (LUMS)   Lahore, Pakistan
Research Assistant   June 2017 - Mar 2018
- Engaged with the community and successfully built a relationship of trust with the locals and 6 local leaders, to better understand the issues faced when participating in the politics of infrastructure.
- Collected qualitative data via interviews and focus groups, coalesced the general trends in the data, and presented the results.
- Conducted a literature review for the study.

Lahore University of Management Sciences (LUMS)   Lahore, Pakistan
Research Assistant   Sep 2013 - Dec 2013
- Collected data, as a team of 9, via surveys, interviews, and focus groups, from 8,000 households in 15 low-income neighborhoods.
- Initiated the mapping of the neighborhoods after the first pilot cycle, which made the data collection process more organized and thus decreased the total time spent collecting data by about 50%.
- Analyzed the quantitative data to derive inferences.

Innovative Development Strategies (IDS)   Lahore, Pakistan
Summer Intern   June 2014 - Aug 2014
- Conducted data collection via questionnaires, interviews and focus groups, in order to study the effects of displacement among the Internally Displaced Peoples (IDPs) in 2014 in Pakistan.
- Prepared and delivered presentations to explain the story the data was telling, to highlight the issues faced by the displaced communities, and to recommend ways to alleviate those issues.

Additional Experience

University of Virginia   2019 - 2020
Teaching Assistant   Charlottesville, VA

United We Reach   2018 - 2019
Curriculum Writer   Lahore, Pakistan

AIESEC in Lahore; AIESEC in Kenya   2011 - 2014
Project Manager   Lahore, Pakistan

Education

Certificate, Data Analytics
Columbia University, New York   Dec 2021 - June 2022

Masters of Arts, Anthropology
University of Virginia, Charlottesville   2020

Bachelor of Science (Honors), Politics & Economics
Lahore University of Management Sciences, Lahore
Minor in Mathematics (Statistics, Calculus) and Anthropology-Sociology   2017