

Dua Malik

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EDUCATION

The University of Texas, Arlington

M.S. Data Science

- GPA: 4.0
- Organizations/Awards: Society of Women Engineers (SWE), Presidential Honors List

Arlington, TX

August 2022 – Present

The University of Texas, Arlington

B.S. Biology

- Organizations/Awards: Dean's List, President's List, Maverick Advantage Distinction, Magna Cum Laude

Arlington, TX

August 2019 – May 2022

WORK EXPERIENCE

The University of Texas, Arlington

Undergraduate Research Assistant/Project Scheduler

Arlington, TX

January 2021 – January 2022

- Worked in collaboration to build project schedules, ensuring experiments were completed in an orderly fashion, as well as cross-checking with other project schedules to avoid any overlap.
- Used Microsoft Excel to optimize project schedules by organizing tasks in order of importance, tracking completion dates of subtasks, and generating weekly status reports to analyze productivity and highlight areas for improvement.
- Co-led the data collection initiative and performed data cleaning on raw data for data analysis and visualization using Microsoft Excel and SPSS.

LEADERSHIP EXPERIENCE

The University of Texas, Arlington

Academic Tutor/Supplemental Instructor

Arlington, TX

January 2022 – May 2022

- Facilitated group learning sessions for groups of 10+ students weekly to improve retention of material being taught in class.
- Planned and created presentations and study exercises using Microsoft PowerPoint in a creative manner to ensure constant attendance number. Used various methods to keep students engaged such as competitions, and practice-test events.
- Mentored freshmen and sophomore students as they navigated through their academic career.

ACADEMIC PROJECTS

Descriptive Statistical Analysis on Real-World Data (Central Library Case Study and Temperature Analysis Across U.S.A):

- Managed and collaborated with peers to collect real-world data exploring foot-traffic at UTA's Central Library and scraped data from the web to analyze and explore temperature fluctuations nationally.
- Created a project schedule that spanned 1+ month using Microsoft Excel to track progress and visualize group member's role in each area.
- Performed descriptive statistic techniques to find meaningful insights as well as generating a project report that details team approach.

Analyzing and Visualizing IMDB Database Using SQL and Python:

- Worked independently over 2 weeks to create SQL queries analyzing the careers of prolific actors and actresses within the IMDB database – the largest movie database. This study explored how active each actor/actress was during their most active years compared to their entire acting career. Furthermore, actors/actresses who completed the most movies were also compared based on geographic location and the general attitude towards the arts by the general population.
- SQL (*SQLDeveloper*) was used to write queries through the Oracle DBMS, and Python was used for visualization.

Analyzing Motor Vehicle Collisions in the State of New York:

- Worked independently over 3 weeks to extract, clean, analyze, and visualize a dataset containing the motor vehicle collision rate in New York between 2019 to 2021 with over 3 million rows to explore any correlation between rate of collision with vehicle make and/or type.
- Pandas, NumPy, and Plotly were utilized to extract, clean, and visualize data for analysis. The project was completed using Python.

RELEVANT COURSEWORK

Project Management | Data Modeling and Analysis Techniques | Probability and Statistics | Foundations of Computing | Data Mining | Machine Learning | Data Structures and Algorithms

SKILLS & INTERESTS

Skills: Python (Pandas, Scikit-Learn, NumPy, Matplotlib, Plotly) | SQL | Oracle DBMS | Microsoft Office (Excel, PowerPoint) | ArcGIS | HTML | CSS

Interests: Community Outreach, Developing and Maintaining Sustainable Solutions, Geospatial Data Analysis, Working Out, Reading and Creative Writing