

Michealea Faustine

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Profile

Data Analyst with a BSc in Mathematics from UBC and hands-on experience in SQL, Python, R, and Tableau. Proven ability to extract actionable insights through statistical modeling, data visualization, and optimization. Strong communicator with experience working in collaborative and remote settings. Passionate about transforming data into strategies that support organizational decision-making.

Education

University of British Columbia, BSc in Mathematics Sept. 2021 – May 2024

Relevant coursework: Probability, Applied Machine Learning, Linear Programming, Statistical Inference, Relational Databases, Econometrics, Mathematical Modelling

Green River Community College, AS in Computer Science Sept. 2019 – May 2021

Projects

Employee Scheduling Optimization Jan. 2024 – Apr. 2024

- Analyzed shift types, employee skills, training levels, and daily demand to structure data for an optimization model
- Developed and implemented an Integer Linear Programming (ILP) model in Python with PuLP, reducing processing time from hours to seconds
- Structured the Jupyter Notebook and coordinated team progress for streamlined project execution

Revenue Modeling Oct. 2023

- Developed a mathematical model to estimate the total annual revenue for an ice cream shop based on temperature, precipitation, and customer spending, using statistical techniques to simulate customer behavior and weather impact
- Applied Monte Carlo simulations to generate random samples of key variables and estimate the distribution of potential annual revenue outcomes
- Calculated key statistical metrics including mean, variance, skewness, and confidence intervals to quantify the model's output and assess risk and uncertainty in revenue predictions

Restaurant Branch Management Jul. 2023 – Aug. 2023

- Organized a detailed ER diagram, identified candidate and primary keys, and normalized the tables, reducing inconsistencies and redundancy
- Designed the GUI layout using Java and implemented JDBC for database connectivity
- Facilitated efficient data movement within the system, ensuring seamless communication between the user interface and the Oracle database using SQL

Experience

Volunteer – Data Collection & Preprocessing, GCRI Dec. 2024 - Mar. 2025

- Researched and compiled potential data sources relevant to multi-hazard risk analysis (e.g., floods, wildfires, droughts), including GCRI datasets, open-source databases, and satellite sources
- Assisted in organizing data sources for further preprocessing and model input relationships

Gator Activities Board Member, Green River Community College – Auburn, WA Aug. 2020 – Jun. 2021

- Coordinated and scheduled over 10 campus events, ensuring all required forms were processed through the Student Life Office and reaching out to other departments for collaboration and support
- Utilized Microsoft Teams, Word, and Outlook for team communication and event planning

Technologies

Programming Languages: Java, SQL, Python, R

Technologies: Visual Studio Code, Jupyter Notebook, GitHub