

Siraa Singh Monga

3rd Year, Statistics

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TECHNICAL SKILLS

Languages: Python, R, SQL, MATLAB, CSS

Libraries: NumPy, Pandas, Matplotlib, scikit-learn, seaborn, tidyverse, ggplot2

Tools: Git, VS Code, IntelliJ, Jupyter Notebook, Power BI, Tableau, R Studio, MySQL, MS Office Suite

Awards: Winner nwplus Hackcamp for Best Future Startup

PROJECTS

Skillful | Winner nwplus Hackcamp, Best Future Startup | *ExpressJS, MongoDB, OpenAI* Nov 2024 - Nov 2024

- Developed **Skillful**, a community-driven skill-bartering app with dynamic front-end interactions using **JavaScript**.
- Built RESTful API endpoints using **Node.js** and **Express.js** to manage user profiles, skill matching, and messaging.
- Built a secure matching system using **Auth0** and **MongoDB** for scalable user data and skill trade history.

University Ranking Analysis | *R, Python, ggplot2, dplyr* Sep 2024 - Dec 2024

- Designed **linear regression models** to assess global university ranking factors on key metrics including international student proportions, faculty-student ratios, and gender balance.
- Conducted **model diagnostics, variable transformations, and model selection** to enhance predictive accuracy, leveraging principles of linear modeling and **Principal Component Analysis**.
- Utilized residual analysis and influential point identification to refine models and improve the interpretability of results.

Income Disparity Analysis | *R, Python, Logistic Regression* Sep 2024 - Dec 2024

- Achieved **83.32% accuracy** in predicting income using logistic regression on the Adult Income dataset.
- Built a **logistic regression model with backward selection** to predict income, and the significance of predictors.
- Evaluated model performance using a **confusion matrix, AUC-ROC curves** and derived actionable insights on socio-economic patterns.

EXPERIENCE

Undergraduate Research Assistant, Madzvamuse Lab May 2024 - Jan 2025
UBC Department of Mathematics Vancouver, BC

- Engaged in research focused on **Bayesian Methods, Ordinary and Partial Differential Equations**, to develop a model for predicting cell life expectancy under the supervision of **Dr. Anotida Madzvamuse**.
- Enhanced **ODE** and **PDE** models and Python scripts to stimulate cell population dynamics.
- Collaborated with graduate researchers** to enhance the efficiency and accuracy for model-fitting to reproduce research outputs.

Data Analyst, SM Exports May 2023 - Aug 2023
Import-Export Company Remote, India

- Analyzed multi-source sales and **procurement data to generate insights** that improved supplier negotiations and forecasting accuracy.
- Collaborated with finance and logistics teams to clean, consolidate, and report data for quarterly reviews, **reducing manual reporting time by 60%**.

Head Of Communications Aug 2023 - Apr 2024
UBC Vaccine Literacy Club Vancouver, BC

- Directed the Marketing and Communications Committee, devising comprehensive strategies to enhance community involvement and broaden the organization's reach through innovative channels.
- Revamped online platforms using **JavaScript** to enhance visibility and user experience, boosting community interaction.

EDUCATION

University of British Columbia Vancouver, BC
Bachelor of Science in Statistics (Thematic Concentration in Economics) Expected May 2027

- Relevant Courses: Statistical Inference, Finding Relationships in Data, Introduction to Probability, Elementary Statistics, Applied Linear Algebra, Introduction to Mathematical Computing, Intermediate Micro and Macroeconomics.
- Activities and societies: UBC Department of Mathematics, UBC Vaccine Literacy Club, Science Undergraduate Society, Alma Mater Society, Orientation Leader 24W, UBC Student Housing, UBC TACS (Tax Assistance Clinic).