

TEJAS SINGH

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HIGHLIGHTS OF QUALIFICATION

- Proficient in Python, R, and SQL for statistical analysis, machine learning, and data management
- Experienced with Tableau, Power BI, and Excel for dashboards, KPI tracking, and visualization
- Knowledge of regression, classification (KNN, decision trees, logistic), clustering, PCA, and hypothesis testing from academic and research work
- Applied A/B testing, sampling, and statistical inference in course projects and research experiments
- Hands-on exposure to AWS S3 for cloud-based data storage and retrieval
- Strong communication and collaboration skills, presenting insights clearly to technical and non-technical audiences

EDUCATION

Bachelor of Science - Mathematics & Data Science | University of British Columbia | Expected Graduation: May 2027

- International Major Entrance Scholar \$80000, top international student award
- Statistical Inference, Econometrics, Machine Learning, Data Structures, Database Systems, Optimization

RESEARCH EXPERIENCE

Data Science Researcher - Computational Biology Lab, UBC | Vancouver, BC | August 2025 - April 2026

- Conducting research on large-scale biomedical datasets using Python, R, and SQL, applying regression, classification, and hypothesis testing to identify patterns in irregular data.
- Designed preprocessing and engineering pipelines to improve the accuracy and robustness of predictive models on complex biological data.
- Delivered insights through Tableau and Matplotlib visualizations, supporting faculty with evidence-based decision-making for biomedical studies.

Undergraduate Research Assistant – Madzvamuse Lab, UBC Department of Mathematics | Vancouver, BC | August 2025 – April 2026

- Researched Bayesian methods, ODE/PDE models, and statistical inference to simulate biological systems and predict cell life expectancy.
- Wrote Python scripts for model validation, implementing cross-validation, error analysis, and hypothesis testing to evaluate predictive accuracy.
- Collaborated with graduate researchers on improving efficiency of mathematical models, and communicated results through technical reports and academic presentations.

INTERNSHIP EXPERIENCE

Data Science Intern - CanaSelect | Montreal, QC | September 2024 – December 2024

- Developed SQL-based ETL pipelines to automate data ingestion, reducing manual effort by 20%, improving data reliability across departments.
- Analyzed large financial and operational datasets using Python (pandas, scikit-learn) and R, applying regression, logistic models, PCA, and clustering techniques to identify revenue drivers and uncover hidden performance patterns.
- Built and deployed interactive dashboards in Tableau and Power BI, integrating AWS S3 data sources, and presented results to managers with actionable recommendations that supported business decisions.

General Associate - Aritzia | Vancouver, BC | August 2023 – September 2023

- Supported inventory tracking, reconciled transaction logs, and prepared weekly reports
- Maintained organized digital logs and enhanced customer interaction on floor

Analyst Intern (Real Estate) - M3M Properties | Gurugram, India | May 2022 - August 2022

- Analyzed real estate pricing and demand trends using SQL and Excel to identify market opportunities
- Created Power BI dashboards summarizing regional performance for leadership review
- Optimized SQL queries and automated reports, reducing turnaround time by 12%
- Supported strategic planning with data-driven insights into housing and real estate markets

PROJECTS

Tableau Next Hackathon – Global Financial Health Score (Devpost)

- Leading a student team to build a financial health scoring model for countries using World Bank economic indicators
- Developed Python and R pipelines to compute composite scores from multiple datasets, slack for collaboration & analysis
- Built an interactive Tableau Next dashboard with Salesforce Data Cloud to visualize country-level trends
- Directed project scope, team roles, and technical design to deliver measurable business impact

Heart Disease Detection using R (DSCI 100)

- Analyzed health records to identify significant predictors of heart disease using logistic regression
- Produced bar plots and a confusion matrix to evaluate feature importance and classification performance

Wine Quality vs. Acidity Comparison (UBC STAT 201)

- Used datasets of red and white wine to test how pH, sulphates, and citric acid affect quality ratings
- Performed hypothesis testing and visualized trends using boxplots and correlation matrices

Stock & Revenue Data Visualization Project (IBM) https://www.coursera.org/account/accomplishments/verify/V7M86N83R3XB?utm_product=course

- Created data visualizations using Matplotlib to compare revenue and stock data over 8 quarters
- Analyzed a dataset of approximately 2,000 records using Python and Pandas to highlight trends and differences

EXTRACURRICULARS: Active in UBC BizTech and Data Science clubs, Volunteered as a peer mentor for first-year students. Led multiple teams in hackathons