

Julian Daduica

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EDUCATION

Master of Data Science (Expected June 2025) | UBC, Vancouver, BC Sept. 2024 – June 2025

- Academic GPA: 4.33
- Relevant courses: Supervised Learning, Unsupervised Learning, Regression, Data Structures and Algorithms, Data Visualization, Statistical Inference and Computation, Spatial and Temporal Models, Web and Cloud Computing

Bachelor of Science, Biochemistry and Molecular Biology | UNBC, Prince George BC Sept. 2019 – April 2024

- Academic GPA: 3.92
- Member of Varsity soccer team for 5 years

RELEVANT SKILLS

Programming languages	R (Tidyverse, dplyr), Python (NumPy, pandas, scikit-learn, Pytorch), SQL
Machine learning	Supervised/ Unsupervised learning algorithms, Neural Networks, LLMs, temporal models
Statistics & Probability	Exploratory data analysis, hypothesis testing, GLMs, Experimental Design
Data Visualization	Altair, ggplot2, Matplotlib, Plotly Dash, Shiny for R
Database Management	SQL, PostgreSQL, MongoDB
DevOps Tools	Git, GitHub, GitHub Actions CI/CD, Docker, Amazon Web Services (AWS), Quarto

PROJECTS

Analyzing Ticket Buyer Trends to Identify Potential Season Ticket Member April 2025 – June. 2025

- UBC Master of Data Science program capstone project in partnership with Canucks Sports and Entertainment.
- Remotely collaborated with three other students to deliver a model along with a data analysis pipeline to perform customer segmentation.
- Performed data cleaning on a dataset of approximately 1.5 million rows and feature engineering to build customer profiles. Applied GMM's for clustering to understand trends in data.

Amazon Prime Customer Insights Dashboard Feb. 2025 – March. 2025

- Developed an interactive dashboard using Dash to analyze and visualize Amazon Prime user engagement and retention behavior.
- Conducted in-depth data analysis to uncover trends in user engagement, content preferences, and subscription renewal patterns. In addition to designing actionable visualizations that support marketing strategy decisions to reduce churn and increase renewal rates.

Credit Card Default Classifier Nov. 2024 – Dec. 2025

- Built machine learning pipelines for credit default prediction using XGBoost and achieved 0.535 F1-score through hyperparameter tuning.
- Engineered features to improve model performance and compared results across multiple classifiers (logistic regression, random forests, and boosted/bagging trees algorithms).

Bioinformatics Study on Assessing Microbial Community Change Dec. 2023 – April. 2024

- Assessed the role of soil bacterial and fungal communities in managed forests of the Pacific Northwest.
- Processed bacterial and fungal DNA data obtained from the Aspen thinning trial.
- Performed statistical analyses on the DNA data to determine the impact of forest management practices.
- Summarized results in a scientific report and discussed findings relative to existing literature.

WORK EXPERIENCE

Laboratory Biochemist | Natural Resources Canada CanmetMINING, Prince George, BC Oct. 2023 – Aug. 2024

- Optimized and documented DNA extraction protocols for samples exposed to pollutants (mine dust).
- Performed screening PCRs for peat samples. Submit extracted DNAs for sequencing and provide raw sequence data.

Arena Maintenance Worker | City of Prince George, Prince George, BC Oct. 2022 - Aug. 2024

- Collaborated with team and supervisors to complete tasks and projects efficiently to ensure smooth operations.
- Demonstrated strong work ethic and reliability by maintaining facilities for city events and sports activities.