

JAISUN RATTU

Vancouver, BC ♦ 236-833-9313 ♦ jaisunr@icloud.com ♦ [linkedin.com/in/jaisun-rattu](https://www.linkedin.com/in/jaisun-rattu)

EDUCATION

University of British Columbia

Bachelor of Science, Double Major in Computer Science and Mathematics

Vancouver, BC

May 2025–Present

Langara College

Associate of Science, Computer Science

Vancouver, BC

September 2022–April 2025

SKILLS

Languages: C++, Java, Python

Frameworks/Libraries: scikit-learn, pandas, NumPy, Matplotlib, Flutter, Firebase

Tools/Technologies: Git/GitHub, Bash, LaTeX, VS Code, Microsoft Office

PROJECTS

Credit Card Default Classifier | Supervised Machine Learning

- Built a credit risk prediction model using a Kaggle dataset of 30,000 clients, analyzing financial and demographic features to predict default likelihood
- Designed an end-to-end machine learning pipeline in scikit-learn integrating data preprocessing, feature engineering, and model training (Logistic Regression, Random Forest, SVM)
- Performed hyperparameter tuning via randomized search with 10-fold cross validation, achieving 80% accuracy and a 0.55 F1-performance with top model
- Applied insights from a research paper to guide feature selection and evaluation strategy

Document Clustering Analysis | Unsupervised Machine Learning

- Explored unsupervised learning techniques to cluster text data from Wikipedia articles and Food.com recipes
- Applied K-Means, DBSCAN, and Hierarchical Clustering using sentence embeddings generated from a pre-trained transformer model to capture semantic meaning
- Tuned hyperparameters and visualized cluster structures to reveal interpretable categories like desserts, beverages, and savory dishes

School Bus Tracking App | Full-Stack

In Progress

- Building a tracking app for 1000+ students at Saint Georges School to improve transportation reliability and safety
- Implemented Google maps API integrated with custom-built GPS tracker for real time bus tracking and route visualization
- Utilized Firebase for user authentication, database management and automated bus alerts

EXTRACURRICULAR ACTIVITIES

Brand Representative - The Calendar UBC

Help organize and execute large-scale campus events, including the club's largest with 3,000+ attendees; contribute to event planning, setup, take-down, and creative direction to enhance student engagement.

Co-Founder - Langara Fashion Club

Founded and led a fashion club from scratch to build community and foster creativity; recruited and managed members across multiple teams, conducted interviews, and organized campus fashion events.

Member - UBC Varsity Outdoor Club

Planned and lead group hiking and camping trips; assisted in the construction and maintenance of the VOC's Phelix Hut to support community engagement with the outdoors.