

JASJEET SINGH

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EDUCATION

Bachelor of Science (Computing Science)

(Final semester)

University of the Fraser Valley, Abbotsford

- **GPA:** 3.33. *Dean's list*
- **Relevant Courses:** ML | AI | Robotics | OS | DSA | Design and Analysis of Algorithms | Databases and DBMS

SKILLS

Languages: Python | Java | SQL | R | C++ | C#

Tools: Git | Google Firebase | Google Maps API | Unity | Jupyter Notebook | Eclipse | Android Studio | MS Excel

Frameworks: Numpy | Pandas | Tensorflow | Keras | SciKit-Learn | Matplotlib | Seaborn

EXPERIENCE

Machine Learning Intern

October 2023 – December 2023

RBC - Borealis AI - Let's Solve it Mentorship

Vancouver, Canada

- Organized and led development of models to predict wildfires in Canada utilizing ML models - *XGBoost, Random Forest, Multilayer Perceptron*. Achieved **85% accuracy** through hyper-parameter tuning.
- Conducted data preprocessing, data visualization & model evaluation using *Pandas, Numpy, Scikit-Learn, GeoPandas, Folium, Matplotlib & Seaborn*.

Technical Support

August 2021 – April 2022

Concentrix

Chilliwack, Canada

- Assisted clients with technical products or services.
- Identified, investigated, researched, and provided resolution to user questions and problems.
- Troubleshoot basic and routine customer issues, including hardware, software or other designated client products.
- Followed appropriate escalation path to resolve technical issues, including making follow-up outbound calls to customers or other parties as needed.

Quality Control and Assurance

April 2022 – December 2022

Inchol Solutions

Coquitlam, Canada

- Conducted front and back-end testing for data quality assurance, including manual data validation.
- Managed defect tracking and collaborated on technical documentation, including manual defect identification.
- Collaborated with developers and hardware team to ensure new feature functionality, including manual validation.
- Demonstrated detail-oriented approach within compressed timelines, including manual testing efforts.

PROJECTS

Crime Rates and Income Levels in British Columbia Analysis

- Assessed the correlation between median income and crime rates across jurisdictions using *R* and *Microsoft Excel*.
- Identified crime patterns and ranked cities as low, medium and high risk using Linear Regression, Logistic Regression and K-means clustering.

Fake News Headline Detection (presented at University of Kent webinar)

- Developed NLP model to detect fake news headlines, achieving an **accuracy of 87%** using *Tensorflow & Keras*.
- Researched and prepared dataset for training & evaluation. Prevented model overfitting by employing Early Stopping.

Municipal Issues Reporting App

- Spearheaded development of an Android App that allows users to report and vote on local issues(e.g. potholes, graffiti).
- Implemented user authentication, real-time data storage using **Google Firebase** to manage user data and issue reporting securely and efficiently. Integrated **Google Maps API** for location based-issue tracking and directions.

Database Management System for Cab Company

- Conducted user requirements collection and analysis, designing an Entity–Relationship (ER) model for Cab company.
- Implemented the database tables, established referential integrity, and ensured 3rd normal form (3NF) through normalization techniques.