# 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**](https://www.youtube.com/watch?v=O6LL2OkiANU)[**News**](https://www.youtube.com/watch?v=O6LL2OkiANU)[**Headline**](https://www.youtube.com/watch?v=O6LL2OkiANU)[**Detection**](https://www.youtube.com/watch?v=O6LL2OkiANU)[**(presented**](https://www.youtube.com/watch?v=O6LL2OkiANU)[**at**](https://www.youtube.com/watch?v=O6LL2OkiANU)[**University**](https://www.youtube.com/watch?v=O6LL2OkiANU)[**of**](https://www.youtube.com/watch?v=O6LL2OkiANU)[**Kent**](https://www.youtube.com/watch?v=O6LL2OkiANU)[**webinar)**](https://www.youtube.com/watch?v=O6LL2OkiANU)

* 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.