

Cameron Porteous Data Scientist

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🐙 github.com/cjporteo M medium.com/@cjporteo 🏠 leetcode.com/cjporteo

Languages & Aptitudes

Python (Pandas, NumPy, scikit-learn, Keras, TensorFlow, Flask, Matplotlib, Plotly) • **R** • **SQL** • **Jupyter**
Web Scraping (BeautifulSoup, Selenium) • **Linux Shell** • **Tableau** • **Git** • **GCP** • **Docker** • **Kubernetes**

Technical Skills

Regression (Linear, Lasso, Ridge, Elastic Net, SVR) • **Classification** (Logistic, K-NN, SVM, XGBoost)
Clustering (K-Means) • **NLP** • **Deep Learning** (CNN, RNN, LSTM) • **Monte Carlo Simulation**
Hyperparameter Tuning • **Model Interpretation** (SHAP Analysis, Partial Dependency) • **MLOps**

Professional Experience

03/2022 – present
Toronto, ON

Data Scientist, Aviva Canada Inc. [🔗](#)

- Built automobile insurance pricing model using XGBoost and pyGAM to be deployed in the province of Quebec, responsible for pricing over \$85M in annual premium
- Engineered high-performance data pipelines in Python using Luigi to manage data preprocessing workflows (merging, imputation, feature engineering, etc.)
- Produced analytic data visualizations for key stakeholders using tools including Kepler, Plotly, Matplotlib, and Seaborn

02/2021 – 03/2022
Toronto, ON

Statistical Analyst, Aviva Canada Inc. [🔗](#)

- Developed ML solutions for use in insurance rating, market segmentation, quote conversion, and customer churn modelling
- Worked heavily with gradient boosted tree models, including feature engineering, feature selection, interaction discovery, hyperparameter tuning, and model evaluation
- Collaborated with ML engineering team to develop a scenario-testing tool for internal Pricing teams; currently deployed in three provinces to optimize profit and growth

07/2019 – 10/2020
Kitchener, ON

Data Analyst, PWO Canada Inc. [🔗](#)

- Engineered ETL data pipelines using Pandas to process data for downstream analysis and visualization in Tableau; led to immediate monthly profit increase of \$110K
- Automated report generation using Python/SQL data aggregation scripts

Education

2022 – 2024
Atlanta, GA

Georgia Institute of Technology, Master of Science: Computer Science [🔗](#)
Specialization in Computing Systems

09/2014 – 04/2019
Waterloo, ON

University of Waterloo, Bachelor of Mathematics: Statistics; Actuarial Science [🔗](#)
Double Major; Specialization in Finance

Machine Learning Projects

2020

NBA All-Star Predictor, (Python, Pandas, XGBoost, SHAP) [🔗](#)

- Applied gradient boosted tree models to custom web-scraped NBA datasets, classifying NBA All-Stars with an F1 Score of 81.2%
- Leveraged SHAP analysis and partial dependency contour plots to uncover key insights

2020

@thoughtfulAi, (Python, SQLite, GPT-2, TensorFlow, Transfer Learning, GCP) [🔗](#)

- Generates inspirational quotes using a transformer-based language model (GPT-2) and posts them to Twitter; deployed on GCP Compute Engine [🔗](#)
- Model has been adapted and finetuned to a custom web-scraped dataset

Competitive Programming

Current LeetCode Contest Rating: 1810, Top 6% Globally

- Successfully solved 600+ algorithmic programming problems [🔗](#)
- Authored detailed solution articles for various problems, totaling over 35K views