

# Cameron Porteous

📍 Waterloo, ON

☎ 226-600-8775

in linkedin.com/in/cjporteo

M medium.com/@cjporteo

✉ cjporteo@gmail.com

🔗 cjporteo.github.io

🐙 github.com/cjporteo

k kaggle.com/cjporteo

## Languages & Aptitudes

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**Python** (Pandas, NumPy, Keras, TensorFlow, Flask, Matplotlib, Seaborn) • **R** • **SQL** • **Jupyter**

**Web Scraping** (BeautifulSoup, Selenium) • **Linux Shell** • **Tableau** • **HTML** • **CSS** • **Git** • **GCP** • **Docker**

## Technical Skills

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**Regression** (Linear, Lasso, Ridge, Elastic Net, SVR) • **Classification** (Logistic, K-NN, SVM, Naive Bayes, RF, XGBoost)

**Clustering** (K-Means) • **Deep Learning** (CNN, RNN, LSTM, GPT-2) • **Monte Carlo Simulation**

**Hyperparameter Optimization** • **Model Interpretation** (SHAP Analysis, Partial Dependency)

## Professional Experience

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07/2019 – 10/2020  
Kitchener, ON

**Data Analyst, PWO Canada Inc.** 📄

- Developed small-scale Python ETL utilities to wrangle data for downstream analysis and visualization
- Created comprehensive and intuitive BI dashboards using Tableau and presented key insights to production managers
- Increased monthly profit by \$110,000 immediately after providing welding specialists with data visualization tools to track KPI's and identify steel defect patterns
- Generated short-term and long-term forecasts for shop-floor employee demand levels based on future shop orders
- Implemented data aggregation scripts to generate dynamic financial reports from a transaction database, vastly improving productivity within the controlling department

## Education

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09/2014 – 04/2019  
Waterloo, ON

**University of Waterloo,**

*Bachelor of Mathematics: Statistics, Actuarial Science (Finance Option)* 📄

## Machine Learning Projects

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01/2020

**NBA All-Star Predictor** 📄

- Applied gradient boosted tree models to web-scraped NBA datasets, classifying NBA All-Stars with an F1 Score of 81.2%
- Correctly predicted 22/24 players for the 2020 NBA All-Star Game
- Published in Towards Data Science (Medium publication) as a two-part series 📄

05/2020

**S&P 500 Deep Learning Price Action Classifier** 📄

- Investigated potential predictive factors for one-day price movements of the SPX market index, including technical dark pool indicators and CBOE options data
- Constructed an LSTM recurrent neural network in Keras to classify buy/sell/hold signals with validation accuracy of 45-50%

04/2020

**@thoughtfulAi** 📄

- Generates inspirational quotes using a transformer-based language model (GPT-2) and posts them to Twitter 📄
- Model has been adapted and finetuned to a custom dataset containing over 3000 high-quality quotes from various authors
- Deployed on GCP Compute Engine; creates a new post every 8 hours, complete with a high-res backdrop using the Unsplash API

## Competitive Programming

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**Current LeetCode Contest Rating: 1856, Top 4% Globally**

- Authored detailed solution articles for various algorithmic programming problems, totalling over 300 upvotes 📄
- Started coding-related YouTube channel 📄 to share and thoroughly explain thought process for different questions