

Cameron Porteous

📍 Waterloo, ON

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Languages & Aptitudes

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

Web Scraping (BeautifulSoup, Selenium) • Linux Shell • Tableau • Git • GCP

Technical Skills

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 Tuning • Model Interpretation (SHAP Analysis, Partial Dependency)

Professional Experience

07/2019 – 10/2020
Kitchener, ON

Data Analyst, PWO Canada Inc. 📄

- Developed Python ETL scripts with Pandas to wrangle data for downstream analysis and visualization
- Created comprehensive BI dashboards using Tableau and presented key insights to stakeholders
- Increased monthly profit by \$110,000 immediately after providing welding specialists with data visualization tools to track KPI's and identify operational inefficiencies
- Forecasted monthly labour demand levels using linear regression models, reducing cash burn by over 10%
- Composed data aggregation scripts in Python and SQL to generate reports from a transaction database, vastly improving productivity within the controlling department
- Used matplotlib (Python) to create tailored KDE plots to provide management with statistical guidance during regulatory safety audits

Education

09/2014 – 04/2019
Waterloo, ON

University of Waterloo,

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

Machine Learning Projects

2020

NBA All-Star Predictor, (Python, Pandas, XGBoost, SHAP) 📄

- 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 📄

2020

S&P 500 Deep Learning Price Action Classifier, (Keras, LSTM) 📄

- 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%

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 📄
- 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

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