Cameron Porteous

Waterloo, ON
226-600-8775
linkedin.com/in/cjporteo
medium.com/@cjporteo
cjporteo@gmail.com
cjporteo.github.io
github.com/cjporteo
kaggle.com/cjporteo

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
- 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

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