Cameron Porteous

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Languages & Aptitudes

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

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

07/2019 – present
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

09/2014 – 04/2019
Waterloo, ON

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

Machine Learning Projects

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

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