Cameron Porteous

Data Scientist

Leveraging math and statistics with computation to solve problems, find patterns, and tell stories.

cjporteo@gmail.com

(226) 600-8775

Waterloo, ON, Canada

kaggle.com/cjporteo

linkedin.com/in/cjporteo

github.com/cjporteo

medium.com/@cjporteo

WORK EXPERIENCE

Data Analyst
PWO Canada Inc. ⧉

07/2019 – Present　　　　　　　　*Kitchener, ON, Canada*
Automotive Manufacturing Plant

- Developed small-scale Python ETL utilities to wrangle data for downstream analysis and visualization
- Created user-friendly 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

PROJECTS

NBA All-Star Predictor (01/2020) ⧉
- 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

S&P 500 Deep Learning Price Action Classifier (04/2020) ⧉
- 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%

@thoughtfulAi (05/2020) ⧉
- 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

ScrabbleSpy (10/2019) ⧉
- Word engine built in Python to identify optimal word plays given a set of letter tiles
- Employs a mix of combinatorial and frequency-based solving methods to ensure minimal runtime complexity, given input length
- Deployed using Flask and hosted on Heroku

COMPETITIVE PROGRAMMING

Current LeetCode Contest Rating: 1856 ⧉

Top 4% globally

SKILLS

Python | Jupyter Notebook | R | MySQL | Git

Linux | Data Structures & Algorithms

ANALYTICS & FRAMEWORKS

Pandas | NumPy | TensorFlow | Keras

Matplotlib | Seaborn | BeautifulSoup | Selenium

Flask | Docker | GCP | Tableau

EDUCATION

Bachelor of Mathematics; Honours Statistics, Honours Actuarial Science with Finance Option (Double Major)
University of Waterloo

09/2014 – 04/2019　　　　　　　*Waterloo, ON, Canada*

- Statistical Forecasting
- Quantitative Enterprise Risk Management
- Mathematics of Financial Markets
- Mathematical Statistics
- Computer Simulation of Complex Systems
- Object Oriented Software Development

CLUBS

UW Data Science Club (10/2017 – 04/2019)

UW Intramural Volleyball - Elite (01/2015 – 12/2018)

ACTUARIAL EXAMINATIONS (SOA)

EXAM P - Probability (09/2016) ⧉
Society of Actuaries
- Score: 9/10

EXAM FM - Financial Mathematics (08/2017) ⧉
Society of Actuaries
- Score: 10/10

PROFESSIONAL DEVELOPMENT

Neural Networks and Deep Learning - Coursera (06/2020 – Present) ⧉
Coursera Specialization offered by deeplearning.ai to develop skills in artificial neural networks, deep learning, and backpropagation