Cameron Porteous

Junior Data Scientist

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

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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
- Implemented data aggregation scripts to generate dynamic financial reports from a transaction database
- Generated short-term and long-term forecasts for shop-floor employee demand levels based on future shop orders

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

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

PROJECTS

NBA All-Star Predictor (01/2020) ↗
- Applied gradient boosted tree models to 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 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
- Deployed using Flask and hosted on Heroku

COMPETITIVE PROGRAMMING

Current LeetCode Contest Rating: 1856 ↗
Top 4% globally

SPARE TIME

Section Hiking · Travel · NBA · Investing