Colin Salama

Data Scientist

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EDUCATION

- **Swarthmore College**
  B.A. in Mathematics & Economics
  Relevant Courses:
  Data Structures and Algorithms, Mathematical Statistics, Advanced Econometrics
  August 2015 to June 2019

SKILLS

- **Languages**
  Expert: Python, SQL
  Familiar: R, Stata, C++, C, Java, HTML, CSS

- **Modeling**
  Regression Analysis, Classification, Dimensionality Reduction, Clustering, Deep Learning, Reinforcement Learning

- **Tools**
  Pandas, NumPy, Spark, MySQL, Docker, scikit-learn, XGBoost, MatplotLib, Tableau, Tensorflow, Gensim, Keras-RL, OpenAI Gym, Beautiful Soup, Multiprocessing

PROJECTS

- **Trading Engine**
  Built a reinforcement learning algorithm trained to make the optimal series of buy, sell, and hold decisions for a stock.
  Python, Tensorflow, Keras-RL, Numpy

- **Wiki-Recommender**
  Built an app using natural language processing and dimensionality reduction to give the user a list of Wikipedia article recommendations from any given English Wikipedia page.
  Python, Gensim, Pandas, Multiprocessing

- **Bubble Predictor**
  Built and tested classifiers to predict if a public stock is in a bubble using fundamental and technical indicators.
  Python, Pandas, scikit-learn, XGBoost

- **NBA Spread Prediction**
  Built an NBA score predictor in order to improve spread betting predictions and a simple web scraping tool to pull in data from oddsshark.com.
  Python, scikit-learn, Beautiful Soup, Pandas

EXPERIENCE

- **Metis**
  Data Scientist
  Metis is a top-tier, project-oriented, data science bootcamp. Independently built and delivered four research projects from end to end. Studied topics including supervised learning, unsupervised learning, and reinforcement learning.
  January 2021 to March 2021

- **InMarket (formerly NinthDecimal)**
  Manager, Measurement Partnerships
  Primary contact with multiple Fortune 500 clients on advertising measurement and evaluation. Presented to C-suite executives quarterly on optimization strategies for their advertising budget. Advised the product team on potential improvements.
  September 2020 to December 2020
  Associate Account Manager, Measurement
  July 2019 to September 2020