Adrian Law

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Education

Boston University (Boston)   2017

B.A. Computer Science and B.A. Economics (3.56 out of 4.0)

Skills

Advanced: Python, Anaconda, Pandas, SciKit-Learn, Matplotlib, Selenium
Intermediate: PySpark, SQL, MapReduce, NodeJS, HTML/CSS, XGBoost
Familiar: Java, Unix, C, R, Docker, d3.js

Experience

Optum (Boston)

Data Scientist, Optum Enterprise Analytics   July 2018 - Present (1 y)
- Designed and engineered ML pipelines and model services related to disease progression prediction, NLP, and data-driven process improvement in clinical and business domains
- Led the development and production-ready delivery of a high visibility client-facing ML application for streamlining and improving the prior authorization process by 23% in FTE workload using Python, PySpark and Flask
- Created a topic detection modeling tool for both clinical and user notes for summarization and key work extraction using Stanford NLP model applications
- Consult and advise clients on technical strategy during project scoping to determine feasibility and execution
- Developed a general ML framework for disease detection and prediction for UHC patients with Python and PySpark

Data Science Associate, Technology Development Program   June 2017 - July 2018 (1 y)
- Completed a 1-year training program for recent graduates to cultivate and exercise technical skills to projects and applications
- Developed a model that led to the identification of 12 new heart attack preconditions for intervention using Python ML tools
- Created and led the adoption an internal data science toolkit web application for data science teams using Django and Docker
- Streamlined a data pipeline for duplicate detection capable of handling 12,000 claims per day using Python and Spark

Intern, Technology Development Program   June - August 2016 (3 m)
- Built an end-to-end enterprise-level agile workspace management web application for all 3 Optum agile office spaces with 300+ employees using MySQL and NodeJS

AECOM (Hong Kong)

Intern, IT/Business Analysis Department   June - July 2015 (2 m)
- Programmed, stress-tested and integrated an Excel VBA application for compiling internal analytics reports on IT support tickets

Projects

MBTA/BPS Bus Route Optimization   2017

Undergraduate Research Project involving bus route utilization optimization using unsupervised ML models and algorithmic optimization methods with public data sources in collaboration with Boston Public Schools

Rotten Tomatoes Movies Recommender   2017

Ensemble learning model for movie and critic recommendations and trend analysis of mass reviews vs. critic reviews using scrapped ratings and reviews from Rotten Tomatoes

Snippet (Song sharing platform)   2017

Social media platform to post and share music "bytes" (soundbites) with Facebook and Spotify integration

Personal

Affiliate of: RHKYC Sailing, Taiwanese American Professionals
Interests: Machine Intelligence @ BU, Badminton, Historical Trivia, Film Buff
Languages: English, Cantonese, Mandarin

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