Ethan March

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Education

Northeastern University, Boston, MA — Sep. 2015 - Expected May 2020
Khoury College of Computer and Information Sciences
Bachelor of Science in Data Science, Mathematics Minor — GPA: 3.6 / 4.0

Relevant Courses: Data Collection and Analysis, Database Design, Statistics and Stochastic Processes, Information Presentation & Visualization, Machine Learning and Data Mining I, Large Scale Information Storage and Retrieval, Bioinformatics Computational Methods I

Technical Knowledge

Languages: Python (PyData stack), SQL, R, Java
Databases: MySQL, Redshift, PostgreSQL, MongoDB, Redis
Other: Tableau, Alteryx, Git, Excel, Jenkins, Pivotal Tracker

Experience

Skillz Inc., San Francisco, CA — July 2018 - Dec. 2018
Data Science Co-op

- Planned, implemented, and deployed novel system for determining a game's skill factor using Python, Redshift and Jenkins
- Designed experiments to test modifications to player matching in production environment
- Researched player skill level inference using machine learning
- Visualized data using matplotlib for analysis of the health of player matching systems

Suffolk Construction, Boston, MA — July 2017 - Dec. 2017
Business Data Analyst Co-op

- Designed and published Tableau dashboards for company KPI's and project assessments
- Integrated internal and external data to develop features for machine learning models of job site safety
- Managed Alteryx processes for data collection and data cleaning
- Produced ad-hoc analyses, visualizations, and tools for department heads and executives

City of Syracuse – Mayor's Office, Syracuse, NY — May 2017 - July 2017
Open Data Intern

- Helped build and launch DataCuse, Syracuse's first open data portal, on the ArcGIS Open Data platform
- Automated ETL processes using Python to support open data initiative
- Created visualizations to provide context to city data with Vega
- Wrote introductory tutorials on Python for data processing and visualization

Projects

Predicting Medical Appointment No-Shows — Apr. 2018

- Used R to create logistic regression and boosted decision tree models with publicly available data
- Final model was able predict no-shows for medical appointments on new data with an AUC of ~ 0.7

StatsModels to CoreML Converter — Sep. 2017

- Fork of Apple's coremltools package that adds support for converting models from the StatsModels Python package into Apple's CoreML format