Cody **Fizette**

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Work Experience

Remedy Partners
New York, New York

Junior Data Scientist
Aug 2018 - Present

- Developed XGBoost model to predict patient discharge location using current and historical medical information. Worked on series of classifiers to predict future medical procedures at a patient level.
- Used AWS Athena to query medical claims and construct tabular datasets from time-series data.
- Owned and developed a library of tools to facilitate rapid model prototyping and organized metric reporting. Integrated with MLFlow to allow users to easily share results and ease knowledge transfer.
- Performed process mining using CSPADE and BupaR. Identified statistically significant sequences of medical codes to be used as features in future models. Findings also used to drive scoping sessions with product and clinical teams. Packaged process to be easily used by other team members.
- Worked alongside engineering team to deploy models and debug pipelines.
- Helped develop internal best practices to ease deployment and code maintenance.

Remedy Partners
New York, New York

Data Science Intern
Jun. 2018 - Aug. 2018

- Developed improved regression model to predict skilled nursing facility length of stay using scikit-learn and XGBoost.
- Gained experience in using AWS EC2 to train models and perform computationally expensive operations.
- Conducted data exploration in Jupyter. Revealed key insights into inefficiencies regarding patient release.
- Created visualizations to present model performance and other statistics.
- Presented results and findings to company-wide audience including upper management.

Research

Binghamton University Biological Soft Matter Mechanics Lab
Binghamton, New York

Undergraduate Researcher
Jun 2016 - May 2017

- Developed MATLAB script to analyze fluid rebound mechanics using high speed video.
- Optimized program to quickly analyze hundreds of images and measure several variables as a function of time.
- Created Excel templates to automate data analysis.

Projects

Self-Driving RC Car
Summer 2017

Written in Python with Keras and OpenCV

- Used a convolutional neural network to create a self-driving RC car capable of navigating simple roadways.
- Designed efficient workflow to capture, label, and organize thousands of training images.
- Tuned neural network architecture, training parameters, and roadway design to minimize training data required.

Education

New York University
New York, New York

M.S. in Data Science
Expected May 2021

- Relevant Coursework: Machine Learning, Big Data

Binghamton University, State University of New York
Binghamton, New York

B.S. in Biomedical Engineering, Minor in Math
2018

- GPA = 3.83/4.0

Skills

Programming	Python, SQL, Java
Machine Learning	Scikit-Learn, Tensorflow, Pandas, NumPy, NLTK
Cloud	AWS, EC2, Athena, S3