Geoffrey T. Perrin

Github: github.com/gperrin12 | geoffperrin@gmail.com | 734.674.5481 | New York City, NY

SUMMARY:

SKILLS:

Programing Languages: Random Forest Regression and Classification Analysis, Neural Networks with Keras,
Programing Tools: R, Python, Pandas, ArcGIS, Tableau, Alteryx, SAS, Stata, SQL, Amazon EC2, and Amazon RDS for PostgreSQL

EXPERIENCE:

NYU Center for Urban Science and Progress
Graduate Student September 2016 – Present
New York City, NY
-Masters' thesis project consists of predicting potholes and bike lane condition through computer vision algorithms (using python libraries opencv, networkx, and osmnx) and a custom built data infrastructure (Amazon EC2, Amazon RDS for PostgreSQL, and Apache Airflow). My role also includes presenting our results using Tableau.

NYU Center for Urban Science and Progress
Graduate Research Assistant November 2016 – Present
New York City, NY
-Working under a MacArthur Fellowship developing analyses for various NYC government agencies. For DSNY, I helped clean the data and build a neural network model predicting household waste generation.
-For NYPD, I helped clean the data and build a random forest classification model predicting propensity to report a shooting incident.
-For the Mayor's Office of Technology and Innovation (MOTI), I led a presentation and discussion regarding low-cost sensor building to community members in Brownsville, Brooklyn.

Detroit Land Bank Authority
Bloomberg Fellow July 2016 – Present
Detroit, MI
-Built random forest classifier predicting whether or not a home is occupied.
-Built random forest classifier predicting whether or not a home should be demolished. Both these models are applied to every residential parcel in the city of Detroit.
-Both models are substantial improvements over previous door-to-door canvasing methods. Conference presentations forthcoming.

Levi Strauss & Co.
Senior Analyst July 2013 – July 2016
San Francisco, CA
-Performed statistical analyses on point of sale, inventory, and shipment data for all brands at Levi Strauss & Co. Looked at problems ranging from predicting distribution center load times to coming up with more accurate sales times series forecasting models using ARIMA and TBATS models in R.

Acumen
Quantitative Analyst II January 2012 – July 2013
San Francisco, CA
-Built logit classifier model to detect Medicare Fraud

EDUCATION:

New York University, Center for Urban Science and Progress
Masters of Science September 2016 – August 2017

University of Michigan, College of Literature, Science, and the Arts
Bachelor of Science September 2005 – May 2009