

Muhammed Ahmed

<https://mahmed13.github.io/>

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U.S. Citizen

EDUCATION

- **University of Georgia** Athens, GA
B.Sc. in Computer Science; Institution GPA 3.64 Expected Fall 2018
Certificate in Applied Data Science, Artificial Intelligence Pathway

EXPERIENCE

- **MailChimp** Atlanta, GA
Data Science Intern Summer 2018 - Fall 2018
 - **Contact Rating:** Subscriber engagement scoring system guided by my data research, statistical analyses, and user-defined use cases. Currently being deployed as an engagement metric to 14+ million active users.
 - **Customer Lifecycle Stages:** Probabilistic e-commerce customer lifecycle stages model. Currently being deployed to 60,000+ active e-commerce users.
- **Quinn Research Group** Athens, GA
Machine Learning Researcher Fall 2017 - Fall 2018
 - **Deep Portfolio Asset Management:** Time-series forecasting using deep reinforcement learning algorithms on cryptocurrency exchange assets. Simulated a 32x return on backtested periods between 2015-2016.

OTHER EXPERIENCE

- **PennApps XVIII** University of Pennsylvania
Top 30 Hacker (of over 200 submissions) Fall 2018
 - **FullyFit:** Used live brainwave and activity data from the Muse Headband and Fitbit to create a wellness hub iOS app. Machine learning assisted fitness goal achievement. Brainwave activity to assess mental state and monitor sleep cycles.
- **UGAHacks III** University of Georgia
Hackathon Winner Spring 2018
 - **Google Assistant Challenge:** Voice activated book recommender for the Google Home the using Google Cloud Services, Dialogflow, and GoodReads.com data.
 - **Aspirent - Uber Data Analytics Challenge:** Anomaly detection using Uber ride data modeled as a Barabási-Albert mechanism. Optimized ride request times given an individual's source and destination. Constructed a random walks matrix that outputs the probability of a destination given the source location.
- **Advanced Technology Development Center** Georgia Institute of Technology
Participant Spring 2018
 - **Startup Accelerator:** Worked alongside entrepreneurs and mentors at Georgia Tech's ATDC. Gained insight into the business canvas model and customer archetype through customer discovery.

LEADERSHIP

- **Deep Learning @ UGA** Athens, GA
Vice President Spring 2018 - Fall 2018
- **University of Georgia Rugby Club** Athens, GA
Social Chair Spring 2017 - Fall 2017

PROJECTS

- **NFL Predictions:** Retrieved and processed all player game logs, combine, and injury data for every player. Our XGBoost ensembling beat out some paid online predictors on unseen data.
- **Bitcoin Volatility:** Explained Bitcoin's price volatility using a combination of economic features. Our KNN Regression was able to interpolate the unseen data points with a 5-fold cross-validation score of 0.95.

PROGRAMMING SKILLS

Languages: Java (6 years), Python (3 years), C++, C, SQL, R, UNIX, Swift, L^AT_EX

Frameworks: Scikit-Learn, Pandas, Numpy, Tensorflow, Jupyter Notebooks, Google Cloud Platform