Muhammed Ahmed

https://mahmed13.github.io/

Email : mahmed13@uga.edu

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 (Remote) — *Fall 2018*
  - **Customer Lifecycle Stages**: Probabilistic e-commerce customer lifecycle stages model. Currently being deployed to 60,000+ active e-commerce users.
- **MailChimp** — Atlanta, GA
  Data Science Intern — *Summer 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.
- **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

- **UGAHacks 3** — 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
  Jr. Entrepreneur — *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.

Projects

- **NFL Predictions**: Retrieved and processed all player game logs, combine, and injury data for every player. Our XGBoost ensumbling 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.
- **Graphical GPA**: iOS Application programmed in Swift 2 and Objective-C that uses a UITableViewController to display user′s computed semester and overall GPA then plotted using iOS Charts framework. 500+ downloads.

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*

Programming Skills

Languages: Java (6 years), Python (3 years), C++, C, SQL, R, UNIX, iOS/Swift, LaTeX
Frameworks: Scikit-Learn, Pandas, Numpy, Tensorflow, Jupyter Notebooks, Google Cloud Platform