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: 3.7 — *Expected Dec 2018*
  Certificate in Applied Data Science

Experience

- **Quinn Research Group** — Athens, GA
  Machine Learning Researcher — *Nov 2017 – Present*
  - **Spot Nuclei. Speed Cures.**: Computer vision nuclei detection which allows for more efficient drug testing on diseases like cancer, heart disease, chronic obstructive pulmonary disease, Alzheimers, and diabetes.
  - **Poloniex Trader**: Time series forecasting using machine learning algorithms on cryptocurrency prices.

Other Experience

- **UGAHacks 3** — University of Georgia
  Hackathon Participant — *Spring 2018*
  - **Google Assistant Challenge Winner**: Voice activated book recommender for the Google Home the using Google Cloud Services, Dialogflow, and GoodReads.com data.
  - **Aspirent - Uber Data Analytics Challenge Winner**: 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 Advanced Technology Development Center. 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. Implements iOS Charts framework to display this data in a scatter plot.
- **Simple B.O.B.**: iOS Application programmed in Swift 2 that tracks Kennesaw States Big Owl Bus and notifies arrival times nearest to students current location.

Leadership Experience

- **University of Georgia Rugby Club** — Athens, GA
  Officer of the Club — *Spring 2017 – Fall 2018*
  - **Social Chair**: Event planning and overseeing all social gatherings instrumental to team bonding, motivation, and success. Raising capital for events from our sizable alumni association. Coordinating with opposing collegiate teams for post-match socials.

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