# Muhammed Ahmed

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### **EDUCATION**

# University of Georgia

Athens, GA

B.Sc. in Computer Science; GPA 3.64 Certificate in Applied Data Science, Artificial Intelligence Pathway

Expected Fall 2018

# EXPERIENCE

Mailchimp

Data Science Intern

Atlanta, GA

Summer & 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 model written in Python. Derived from estimated customer lifetime value. Currently being deployed to 60,000+ active e-commerce users.

### Quinn Research Group

Athens, GA

Machine Learning Researcher

Fall 2017 - Fall 2018

o Deep Portfolio Asset Management: Time-series forecasting using deep reinforcement learning algorithms on cryptocurrency exchange assets. Simulated a 32x return on back-tested periods between 2015-2016.

#### HACKATHONS AND LEADERSHIP

### HackHarvard 2018

Harvard University

Best Use of Algolia's Search API

Fall 2018

• SimpliCT: Web platform for connecting patients with uncured diseases to clinical trials. Utilizes Algolia's search API and various Google Cloud Services. Available in any language.

# PennApps XVIII

University of Pennsylvania

Top 30 Hack (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 used 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.
- **Uber Data Analytics Challenge**: Anomaly detection using Uber ride data modeled as a Barabási-Albert mechanism. Optimized ride request times. Constructed a random walks matrix.

### Advanced Technology Development Center

Georgia Institute of Technology

Startup Accelerator

Spring 2018

### Deep Learning @ UGA

Athens, GA

Vice President

Spring 2018 – Fall 2018

• Identified and booked speakers with impressive work in deep learning. Expanded our outreach to other interest/research groups and doubled our meeting attendance in one semester.

# 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: Python (3 years), Java (6 years), C++, C, SQL, R, UNIX, Swift, IATEX

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