Muhammed Ahmed

https://mahmed13.github.io/

Email : mahmed13@uga.edu
U.S. Citizen

EDUCATION

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

EXPERIENCE

Mailchimp — Atlanta, GA
Data Science Intern — *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*
- **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, LaTeX
Frameworks: Scikit-Learn, Pandas, Numpy, Jupyter Notebooks, Google Cloud Platform, TensorFlow