Abhishek **Mallemadugula**

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Summary

Looking for a summer internship opportunity in 2019. Avid participator in multiple hackathons. Passionate about data modeling and machine learning.

Education

Georgia Institute of Technology

Aug 2017 - May 2021

Pursuing a B.S. in Computer Science

- Specializing in Intelligence and Modeling.

Skills

Programming Languages: Python, Java, Matlab, LC3 Assembly, with some experience in Javascript
Web Technologies: HTML5, CSS3, JS, React, Vis, D3, AWS Lambda/EC2
Relevant Coursework: Data Structures and Algorithms | Computer Organization | Machine Learning for Trading | Data Manipulation | Object Oriented Programming | Objects and Design | Probability and Statistics

Experience

Georgia Tech Human Computer Interaction Lab

Jun 2018 - Aug 2018

Technical Intern

- Built a framework for network visualizations.
- Created a SQL database along with a Python API for ease of read/write access from various types of data files.
- Created a backend to process queries from the user using Python using NetworkX
- Built a web app using ReactJS and D3/Vis that communicates with the backend to deliver visualizations to the user.

Algorithmic Trading

Mar 2018- Current

Self Employed

- For the past 7 months, I've been automating my trading strategies on the Forex market with the help of my computing skills.
- Use TradingView and Python through the Quantconnect platform to discern and backtest strategies.
- Use mathematical and financial packages including Ta-Lib, NumPy, Pandas, MatplotLib, etc.
- Use a REST-V20 API from Oanda and AWS Lambda to deploy the strategy.
- My finance background is primary derived from books and online courses.

Projects

Face Check

Sep 2018

HackGSU Project

- Built a ready-to-deploy testing/attendence authentication system based on facial recognition for classrooms.
- The application was built in python using a package called face_recognition.
- The model was trained on the Labeled Faces in the Wild dataset with an accuracy of 99.38%

Project Nucleus

Feb 2018 - April 2018

2018 Kaggle data science bowl

- Attempted to outline nuclei over varied conditions including color, shape, and size.
- Used techniques of image augmentation because we had a small dataset to train on.
- Used techniques of various edge detection methods to identify which section contained the nucleus so we could outline it.

Youtube Caption Analysis

Feb 2018

HackIllinois project

- Attempted to determine the complexity of a YouTube video's topic by analyzing the captions of the video.
- Completed the project using Python using natural language processing libraries such as TextBlob and NLTK.
- Turned the analysis into a web app using Flask.