Abhishek **Mallemadugula**

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Summary

Current computer science candidate at the Georgia Institute of Technology. Driven student who's involved in several projects and an avid participator in hackathons. Passionate about data modeling and machine learning, but open to exploring new areas of CS. I'm looking for a summer internship opportunity that allows me to take part in building exciting things!

Education

Georgia Institute of Technology *Expected May 2021*

Pursuing a B.S. in Computer Science

- Specializing in machine learning, modeling, and other applications of data

Skills

Programming Languages: Python, Java, Matlab, with some experience in Javascript
Web Technologies: HTML5, CSS3, JS, React, Vis, D3
Relevant Coursework: Data Structures and Algorithms | Computer Organization | Data Manipulation | Object Oriented Programming | Objects and Design

Experience

Georgia Tech Human Interaction Lab *Jun - Aug 2018*

Worked to develop 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.

Projects

Beta Zero *Sep 2018 - Current*

In conjunction with the Agency - a team at Georgia Tech that educates our community about intelligent computing.

- Currently working on a chess bot using **self-play** and **general reinforcement**. The goal is for the bot to beat us!
- inspired by https://arxiv.org/pdf/1712.01815.pdf

Project Nucleus *Feb - April 2018*

This project was done in a team of 4

- Participated in the 2018 Kaggle data science bowl.
- Used techniques of **computer vision** such as **image augmentation** and various **edge detection** methods.
- Also explored how to apply an implementation of **Mask R-CNN** on **Keras** and **Tensorflow** to identify different segments of our training images.

Youtube Caption Analysis *Feb - April 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 several **natural language processing** libraries.
- Made the analysis into a web app using **Flask**
- The project was successful in determining complexity of videos that had captions that were accurately punctuated.