Akhil Kemburu

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Education

Carnegie Mellon University *Pittsburgh, PA*

B.S. in Business Administration *Expected: May 2019*

- Majoring in Business Administration, with a concentration in Finance and Business Technology.
- Minor in Computer Science
- QPA: 3.59/4.0

Relevant Coursework

- 15-440: Distributed Systems (Current), 15-388: Practical Data Science, 15-213: Introduction to Computer Systems, 15-210: Parallel and Sequential Data Structures, 15-150: Functional Programming, 36-225: Introduction to Probability Theory (Current), 70-455: Modern Data Management

Experience

JP Morgan Chase & Co. *New York, NY*

Summer Technology Analyst *Jun. 2018 - Aug. 2018*

- Implemented a full stack Python application which allowed traders to create and customize visualization templates for different clients.
- The application used Python Pandas and Matplotlib to visualize the data, while using JupyterLab as an interface to provide the user with controls to customize the visualizations.
- Designed the backend and frontend modules to be loosely coupled by introducing a layer of abstraction, which allows for extensible backend Python modules.

JP Morgan Chase & Co. *New York, NY*

Summer Technology Analyst *Jun. 2017 - Aug. 2017*

- Developed a real-time algo performance visualization application for multiple trading teams, for over thousands of market orders using Kdb and Qlikview.
  - Querying data for over a million rows, every minute
- Optimized backend code for a trading application using python and pandas data frames, cutting down runtime by over fifty percent.
- Created a web application using HTML and AngularJS for traders to use as a portal to access their web-based applications.

Projects

NCAA March Madness Predictor

15-388 Project

- Predicted the results of the 2018 March Madness tournament based on the results of the 2017/2018 NCAA regular season using two different models, ELO and Linear Regression, in Python.
- Found that the Linear Regression yielded a lower mean squared error compared to the ELO Model.

Personal Sleep Tracker

15-112 Term Project

- Written in Python and used OpenCV to detect whether users were either sleepy or awake based on their facial expressions.
- Implemented the k-nearest neighbors algorithm and OpenCV binary thresholding, using users' sleep data.

Honors & Awards

2018 **Dean's List**, Tepper School of Business Dean's List Candidate *Pittsburgh, PA*

2016 **Dean's List**, Tepper School of Business Dean's List Candidate *Pittsburgh, PA*

2015 **Dean's List**, Tepper School of Business Dean's List Candidate *Pittsburgh, PA*

Skills & Interests

Development and Other Skills

- Programming: Python, C, SML
- Database: Microsoft SQL Server and KDB+
- Web Development: HTML5, CSS, Twitter Bootstrap, jQuery, AngularJS
- Other: Microsoft Office