Santhosh Subramanian

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ABOUT ME

Professional Interests	Machine learning, data science and visualization, modeling & analytics
Technologies	Python, R, PyTorch, TensorFlow, Pandas, SQL, Excel, VBA, and others
Interests	Financial Engineering, Basketball, Football, Chess, Poker, Traveling
Legal Status	US Citizen, Able to start immediately

EDUCATION

University of California, Berkeley   GPA: 3.3/4.0

Bachelor of Arts, Applied Mathematics   Berkeley, CA (Aug 2016 - May 2020)

(Concentration: Financial Engineering)

EXPERIENCE

Private Tutor

Chegg, Varsity Tutors, Private   Atlanta, GA (Oct 2020 – Cur)

- Tutoring students in high-school and undergraduate level math, python & R programming, and data science/machine learning.
- Currently have tutored 32 students and amassed over 300 hours of total tutoring time.

Main Management LLC (Asset Management Firm)

Quantitative Research Intern   San Francisco, CA (Feb 2019 – Feb 2020)

- Created tool in python to scrapes historical ETF data from FactSet and Yahoo Finance and exports reports with company info, ratios, and time series visualizations. Reduced firm's ETF report creation from **2 hours to less than 30 seconds.**
- Built regression models and neural networks to forecast ETF returns using alternative data sources such as Housing Data.
- Based on my forecasting models and research, recommended portfolio manager to short oil (USO) and buy semiconductors (SMH). Since Jan 2020, achieved **245% returns on USO** and **17% returns on SMH.**

Diascan

Co-Founder & Chief Technology Officer   San Francisco, CA (Jul 2015 – Jun 2019)

- Led entire product lifecycle of web based medical imaging software that leverages machine learning and computer vision to help aid radiologists in diagnosing lung cancer more accurately and efficiently.
- Built convolutional neural networks in Keras and PyTorch to detect, segment, and classify cancerous tumors from chest CT scans. Achieved **96% accuracy** in detection and **84% Accuracy** with a **0.77 F1 Score** in classification.
- Pitched to Venture Capital and Angel investors, presented the company and product at conferences and demo days, and handled all funding. **Raised seed round of funding** from CyberLaunch & Angel Investors.

Kiwi Robotics

Autonomous Driving Intern   Berkeley, CA (Aug 2018 – Dec 2018)

- Collaborated with development team of 4 to collect, filter, transform, and analyze captured video data to help delivery robots autonomously navigate accurately and safely across crosswalks.
- Built convolutional networks using Pytorch to predict steering wheel and throttle of delivery robots. Decreased delivery time of the autonomous robots by 14% compared to previous company metrics.

GoFind.ai

Machine Learning + Product Intern   Berkeley, CA (May 2018 – Aug 2018)

- Built deep learning and computer vision algorithms (TensorFlow and OpenCV) to detect license plates in images and videos, increasing detection accuracy by over 15% compared to industry standard methods (OpenALPR) and over 30% compared to previous company standards.
- Responsible for the creation of gofind.ai's license plate detection product. Solely worked on the design and wireframing. Collaborated with the engineering team using JIRA and GitHub to build the product.