Education

Georgia Institute of Technology

Atlanta, Georgia

MASTER OF SCIENCE IN COMPUTATIONAL SCIENCE & ENGINEERING

Aug 2017 - Dec 2019

GPA: 3.90

• Coursework: Computer Vision, Deep Learning, Numerical Linear Algebra, Machine Learning for Trading

Georgia Institute of Technology

Atlanta, Georgia

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Aug 2013 - May 2017

• Coursework: Machine Learning, Natural Language Processing, Robotics & Perception

Skills

Programming Python, C, C++, SQL, Java, Golang, JavaScript, HTML, MATLab

Frameworks PyTorch, Scikit-Learn, Pandas, OpenCV, SimPy, Spark **Other** AWS, GCP, Docker, Kubernetes, REST APIs, LaTex

Research

The REDUCE Project

Dr. Munmun De Choudhury

GT SOCIAL DYNAMICS & WELLBEING LAB

Jul 2019 - Present

- Created language model embeddings for social media data to feed into time-series model to forecast weekly suicide attempts
- Trained regression model using language features from millions of Tweets to serve as one learner in final ensemble approach

Facebook SUMO Challenge

Dr. Frank Dellaert & Dr. Ren

RESEARCH ASSISTANT

Sep 2018 - Mar 2019

- Trained a Faster-R-CNN network on 360 Degree RGB-D images to localize bounding boxes in 2D
- Recovered 3D bounding box predictions from 2D object detections for 100+ categories to place 2nd in SUMO Challenge
- Contributed to baseline methods for SUMO dataset paper with collaborators from Stanford and Princeton.

Experience

Georgia Institute of Technology

Atlanta, Georgia

HEAD TEACHING ASSISTANT FOR INTRO. TO ARTIFICIAL INTELLIGENCE

Aug 2019 - Dec 2019

- Managed a team of 17 Teaching Assistants responsible for all grading and projects for 450 undergraduate students
- Developed entirely new mass auto-grader system with built-in plagiarism detector to reduce grading time for each TA by 85%
- Created extensive new review guides for all core course concepts: Graph Search Algorithms, Reinforcement Learning, Probabilistic Inference, Neural Networks, and Decision Trees
- Served as guest lecturer on Particle Filtering for a class section with 300 students
- · Organized and lead review sessions with co-TAs to better prepare students for exams and projects

The Home DepotSmyrna, Georgia

COMPUTER VISION INTERN

SOFTWARE ENGINEER

May 2019 - Aug 2019

Jun 2017 - Jun 2018

- Fine-tuned 20+ models to extract fine-grained features from furniture images to enable training of a generative model that could produce aesthetically compatible furniture collections
- Developed a reusable framework for quickly aggregating images from the various data sources, performing data cleanup and augmentations, fine-tuning ResNet/VGG models, and evaluating using F1 scores and confusion matrices

DukeTIPHouston & Atlanta

INSTRUCTOR Jun 2018 - Jul 2018

- Taught a total of 40 students for four weeks across two courses: Modern Programming and Artificial Intelligence
- Designed syllabi, conducted parent-teacher conferences and crafted assignments spanning five core topics: Fundamentals of Python Programming, Web Development, Graph Search Algorithms, Machine Learning, Natural Language Processing

Pindrop Atlanta, Georgia

- Automated a data collection task that consumes 90 days' worth of data for researchers to create adaptive fraud detection models
- Optimized memory consumption for a new service to use 75% less memory than previous implementations
- Created new framework for continuous deployment of fraud detection models to production systems

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