

ROHIT MITTAPALLI

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Undergraduate looking to use data science and software engineering to empower business

EDUCATION

Georgia Institute of Technology

B.S in Computer Science. Minor in Economics

Graduation: Dec 2020

GPA: 4.00

Certifications: Coursera Deep Learning Specialization, Udacity Data Analyst Nanodegree Program

Achievements: 1st at Citadel DataOpen at Georgia Tech, Vanderbilt Hackathon Most Disruptive Hack and Best Financial Hack, International Student Science Fair representative, National Merit Finalist

WORK EXPERIENCE

WorldQuant

Research Consultant

August 2018 – Present

Working Remotely

BazaarVoice

Data Science Intern

May 2018 – Present

Austin, TX

- Automated 17.6% of all image moderation saving over \$65,000 per year by detecting copyright with 2 machine learning models
- Discovered drawbacks to photo quality rating by humans and created an alternate model with 74% accuracy on AWS SageMaker
- Debugged an ETL script called daily to transfer machine learning model outputs from data source to Amazon Web Services

The Home Depot Search Components Team

Software Engineering Intern

January 2018 – Present

Atlanta, GA

- Empowered Home Depot to objectively improve autocomplete predictions by creating a metric to assess quality and relevancy
- Removed bias from current metrics by using Word2Vec and a RNN for term diversity evaluation instead of Home Depot data
- Provided insight into the autocomplete system by analyzing the impact of recommended term diversity on autocomplete usage

Northwestern University

Research Intern

June 2015 – June 2016

Evanston, IL

- Created models able to increase data speeds by designing bandwidth allocation schemes in a network of femto and macrocells
- Analyzed informational cascades with 2 more nuances than mathematical models by using a markov chain and first step analysis
- Shared work by presenting the Markov chain model at the 700+ person Informational Theory and Applications conference

PERSONAL PROJECTS

Citadel Data Open

February 2018

- Won \$20,000 at a Citadel hosted data open along with a team of 3
- Analyzed city data to optimally place public service buildings in 6 cities across America using heatmaps and a random forest

WeLocate—Vandy Hacks (Most Disruptive Hack by RedVentures / Best Financial Hack by Capital One)

October 2017

- Developed a web app for small business owners to capture relevant data and use machine learning to find startup locations
- Created the machine learning model on AWS and used python scripts for data collection across multiple open APIs

Pokémon Go—Swarm Algorithm

June 2016 – August 2016

- Created a heuristic swarm algorithm to find a Euclidean circuit across my local park to optimize Pokémon Go loot
- Tested algorithm on distance weighted graph of a local park and improved efficiency from 18 to 21 stops in 30 minutes

Home Depot Convolutional Neural Network

November 2017

- Created a convolutional neural network in TensorFlow and Python to categorically sort product images
- Sorted images of chandeliers, windows, lamps and similarly related items with 91% accuracy

LEADERSHIP

FRC Robotics

September 2015 – May 2018

CAD Head, Captain, Adult Mentor

- Led a 55+ member team, organized sessions, managed finances and mechanically supervised for over 500 documented hours
- Increased retention rate by over 200%, increased population from 20 to over 55 members, more than doubled total man hours

Computational Finance Club @ Georgia Tech

November 2017 – Present

Treasurer, Undergraduate Head

- Handled club account with student government, organized budgets, and maintained ledger of voting membership
- Created undergraduate awareness of the club and initiative by hosting joint master and undergraduate computational contests

Automated Algorithms Design – Vertically Integrated Project

January 2018 – Present

- Designed machine learning, genetic, and evolutionary algorithms to outperform optimization methods and existing algorithms
- Predicted the effect of news headlines on stock prices using EMAD genetic programming and bag of words NLP algorithms

SKILLS

Languages: Python, JAVA, C#, SQL, R, HTML/CSS, Spark, Javascript, MATLAB

Frameworks/Tools: Keras, Android Studio, TensorFlow, GIT, AWS ML Studio, Tableau, LaTeX, Maven, Jupyter Notebooks, Bootstrap