ROHIT MITTAPALLI

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

EDUCATION

Georgia Institute of Technology   **Graduation:** Dec 2020
B.S in Computer Science. Minor in Economics   **GPA:** 4.00
Certifications: Udacity Data Science Analyst Nanodegree Program, Coursera Deep Learning Specialization, Udemy Apache Spark with Java, Udacity Developing Android Apps, Udemy AWS Machine Learning with Python
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   **July 2018 – Present**
Research Consultant   *Working Remotely*
BazaarVoice   **May 2018 – Present**
Data Science Intern   *Austin, TX*
- Automated 22% of all image moderation by detecting copyrighted images with two convolutional neural networks in python
- Implemented a neural image assessment model to rate quality of submitted photos on 1 to 5 star scale using AWS Sagemaker
- Debugged an ETL script called daily to transfer machine learning model outputs from Raven to AWS S3

The Home Depot Search Components Team   **January 2018 – Present**
Software Engineering Intern   *Atlanta, GA*
- Empowered Home Depot to improve autocomplete predictions objectively 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   **June 2015 – June 2016**
Research Intern   *Evanston, IL*
- Created models to optimize 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 Tensor Flow 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 – Present**
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**
Undergraduate Head, Treasurer
- Handled club account with student government, organizes budgets, and maintains ledger of voting membership
- Created undergraduate awareness of the club 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 EMADE genetic programming and bag of words NLP algorithms

SKILLS

Languages: JAVA, Python, C#, SQL, C++, R, HTML/CSS, Spark, MATLAB
Frameworks/Tools: Keras, Android Studio, TensorFlow, GIT, AWS ML Studio, Tableau, LaTeX, Maven, Jupyter Notebooks, Bootstrap