**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