ROHIT MITTAPALLI

rohitmittapalli.com · 630-777-4728 · rmittapalli3@gatech.edu · github.com/Rohit42 · US Citizen

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

EDUCATION

Georgia Institute of Technology **Graduation:** Dec 2020
B.S in Computer Science (Intelligence & Theory Concentrations) | Minor in Economics **GPA**: 4.00/4.00
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
Coursework: Intro to Artificial Intelligence, Computer Organization & Programming, Data Structures & Algorithms

WORK EXPERIENCE

WorldQuant **August 2018 – Present**
Research Consultant | Virtual Research Center *Working Remotely*

BazaarVoice **May 2018 – August 2018**
Data Science Intern | Content Integrity Team *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 **January 2018 – May 2018**
Software Engineering Intern | Search Components Team *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 **June 2015 – June 2016**
Research Intern | Under Dr. Randall Berry *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

VeriResume **June 2018 - Present**

- Developing an online platform to add applicant driven verification to resumes via document upload and manager feedback
- Marketed product using website (veriresume.co) to drive newsletter and gain feedback from recruiters

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**

- Designed 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

LEADERSHIP

Alpha Kappa Psi – Professional Business Fraternity **January 2018 – Present**
Director of Investments

- Managed a stock portfolio of $15,000+ along with 3 other directors, receiving and filtering input from the 85+ brother fraternity
- Hosted personal finance workshops to guide members through investment strategies and educate them in related industries

Computational Finance Club @ Georgia Tech **November 2017 – Present**
Undergraduate Head, Treasurer

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

Automated Algorithms Design – Vertically Integrated Project **January 2018 – May 2018**

- 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: 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, React.js