

# Reetesh Sudhakar

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## EDUCATION

### Georgia Institute of Technology

B.S./M.S. Computer Science, Specializations in Artificial Intelligence, Modeling & Simulation

Atlanta, Georgia

Expected Graduation May 2025

- GPA: 3.94/4.00 – Faculty Honors (2022-23), Dean's List (2021-23), M.S. Specialization in Machine Learning
- Relevant Coursework: Data Structures & Algorithms, Computer Organization & Programming, Applied Combinatorics, Robotics & Perception, Systems & Networks, Design & Analysis of Algorithms, Differential Equations, Artificial Intelligence
- Teaching Assistant (Fall 2023): Objects & Design (System Design, GRASP & SOLID Principles, Object-Oriented Programming)

## EXPERIENCE

### Robinhood Markets, Inc.

Software Engineer Intern

Menlo Park, California

May 2023 – Present

- Developing automated experiment platform health checks and automated pre-AA testing for experiments using Python, Presto, AWS S3, to prevent sample ratio mismatching (SRM) in feature analysis and A/B testing for product teams.
- Visualizing SRM data in a web application page using Typescript, React, and Django, while integrating automated Slack bot notifications and Opsgenie paging to trigger efficient responses to SRMs and other experiment issues.

### Georgia Tech Vertically Integrated Projects

Undergraduate Researcher

Atlanta, Georgia

Jan. 2022 – Present

- Designing a neural model with Nengo to address classic control problems with a neuromorphic approach by using the Open AI Gymnasium environment, comparing performance metrics to deep learning approaches.
- Leading team of five in performing analyses based on environment performance and sensitivity to assess and improve quality of proposed model in comparison with deep learning networks, yielding a 32% improvement using neuromorphic models.

### Siemens Digital Industries Software

Software Development Intern

Remote

Dec. 2021 – May 2022

- Redesigned UX/UI for Siemens Software Center (SSC) in C++ and Qt Stylesheets (QSS) by performing research for optimal Human-Computer interaction. Led development of renderings using Figma and implemented 15+ released SSC features in Qt.
- Developed and deployed unit test frameworks to assist quality testing of installation, delivery, and user interaction features. Utilized the Google Testing Framework for performance testing in an agile development cycle with teams internationally.

## PROJECTS

### UTKFace Image Classification

Jul. 2022

- Created a convolutional neural network (CNN) to train a multi-output image classification model of the UTKFace dataset to classify portrait 20,000+ images of subjects based on race, gender, and sex.
- Leveraged OpenCV and Pandas to pre-process and normalize image data for classification, generating 90% accuracy across features using TensorFlow and Keras, using Scikit Learn and Matplotlib to analyze results and plot training and validation data.

### Instagram Caption Sentiment Analyzer

Jan. 2022

- Scraped 1500+ captions from Instagram posts using Selenium and Chrome WebDriver to provide sentiment analysis of users' accounts on a large scale with configurable sample sizes, normalized with NLTK Tokenize and regular expressions.
- Used natural language processing techniques with spaCy to isolate relevant post information, generating sentiment analysis of scraped user captions using the Google Natural Language API to generate an average sentiment score from a given user.

## ACTIVITIES AND LEADERSHIP

### Delta Tau Delta Fraternity, Gamma Psi Chapter

Director of Member Development

Atlanta, Georgia

Nov. 2022 – Present

- Raised \$33,000+ in funds for Type 1 Diabetes research, health & environmental impact funds, and stroke prevention nationwide.
- Organized development events to strengthen campus relations and enhance leadership and professional skills for 50+ members.

### Fremont Debate Academy

Vice President, Special Projects

Fremont, California

Apr. 2020 – Present

- Implementing 20+ curriculum targets in accordance with 100+ Common Core State Standards to offer introductory debate extracurricular classes to students across 7 Oregon middle schools.
- Working with 10+ volunteer instructors nationwide to introduce and integrate Middle School Public Debate curriculum into elementary schools as a course offering to improve civic engagement, literacy, and communication skills.

## SKILLS

**Technical Skills:** Python, Java, C, HTML, CSS, JavaScript, PyCharm, IntelliJ IDEA, Qt Creator C++, Anaconda, GitHub, Git/Tortoise Git, IBM SPSS Statistics, GraphPad Prism, Metaboanalyst

**Business Skills:** Agile Methodologies, Product Management, Business Analysis, Teamwork, Leadership, Problem-Solving

**Certifications:** Product Management First Steps, Project Management Foundations, Project Management: Technical Projects, Agile Product Owner Role: Foundations, Product Management: Building a Product Roadmap & Building a Product Strategy