

Reetesh Sudhakar

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EDUCATION

Georgia Institute of Technology

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

Atlanta, Georgia

Expected Graduation May 2024

- GPA: 3.90/4.00 – Faculty Honors (2022), Dean's List (2021-22), Berlin Summer Abroad Program (May – Aug. 2022)
- Relevant Coursework: Data Structures & Algorithms, Objects & Design, Computer Organization & Programming, Linear Algebra, Discrete Mathematics, Multivariable Calculus, Applied Combinatorics, Robotics & Perception, Systems & Networks

EXPERIENCE

Siemens Digital Industries Software

Software Development Intern

Remote

Dec. 2021 – May 2022

- Redesigned user interface for Siemens Software Center (SSC) in C++ by performing extensive research for optimal Human-Computer interaction. Led development of product renderings using Figma and implemented over 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.

Georgia Tech Vertically Integrated Projects

Undergraduate Researcher

Atlanta, Georgia

Jan. 2022 – Present

- Training a deep neural network (DNN) model on ECG data across 1500+ subjects by performing common processing analyses, including denoising, peak detection, and temporal feature extraction, to optimize classifications for arrhythmia detection.
- Leading team of four in performing analyses based on accuracy, specificity, and sensitivity to assess and improve quality of proposed DNN in comparison with well-known classifiers, using datasets created to study 100+ unique movements and actions.

Oregon Health and Science University

Research and Analytics Intern

Portland, Oregon

Mar. 2020 – Aug. 2021

- Analyzed and reviewed 250+ behavioral assays using 10+ novel protocols, IBM SPSS Statistics, GraphPad Prism, to study possible genetic protective pathways for Alzheimer's development in the Department of Behavioral Neuroscience.
- Facilitated and improved internal data organization standards for mouse colonies using Jupyter Notebooks to track colony upkeep and organization, yielding a 25% increase in efficiency for data retrieval, collection, and analyses across 15 collaborative projects.

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 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.

Sentiment Analyzer Bot

Jan. 2022

- Built Telegram messaging bot to provide sentiment analysis of Twitter users' accounts on a daily level with configurable sample sizes, retrieved using the Twitter API and normalized with NLTK Tokenize and regular expressions.
- Generated sentiment analysis of scraped user tweets using the Google Natural Language API, providing bot users efficiently with an average sentiment from a given Twitter user based on classifications utilizing the Telegram Bot API.

ACTIVITIES AND LEADERSHIP

Delta Tau Delta Fraternity, Gamma Psi Chapter

Director of Philanthropy & Community Service

Atlanta, Georgia

Nov. 2021 – Present

- Organized events to raise \$30,000+ funds for Juvenile Diabetes Research Foundation, heart disease causes, environmental impact funds, and stroke prevention nationwide.
- Held several joint events with organizations across Georgia Tech campus and the Greater Atlanta area to increase participation in philanthropy and community service events and to strengthen campus relations.

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 to introduce and develop Middle School Public Debate curriculum to teachers and volunteer instructors nationwide to introduce debate as a course offering in elementary and middle school districts.

SKILLS

Technical Skills: Python, Java, C++, HTML, CSS, JavaScript, PyCharm, IntelliJ IDEA, Qt Creator, 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