

ABHINAV GANESH

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EDUCATION

The University of Texas at Austin, Austin, TX

May 2025

Bachelor of Science, Computer Science

GPA: 3.9351

Relevant Coursework: *Data Structures; Discrete Math; Computer Organization and Architecture; Matrices/Matrix Calculations; Probability*

SKILLS

Technical/Computer Skills: *Advanced Java, Advanced Python, Basic HTML/CSS/Javascript, Intermediate Data Science, Basic R*
Languages: *Intermediate Spanish, Basic Tamil*

EXPERIENCE

Seton Stroke Institute/Department of Neurology, Austin, Texas

January 2022 - Present

Undergraduate Research Assistant

- Work with clinical trial data regarding stroke patients to develop CT image processing pipeline
- Skills used: *Python, R, pybids, nilearn, ANTs, OpenCV, Docker*

Hutter Research Group, Austin, Texas

August 2021 - Present

Undergraduate Research Assistant

- Perform data analysis and build visualization tools to display gas data to aid analysis of differentiating properties of gas ionization as part of an effort to create a more portable technology to detect gas information.
- Skills used: *Python, Scikit-learn, Seaborn, Pandas, NumPy*

UnitedHealth Group/Optum

June 2022 - August 2022

Intern - Data Engineer Team

- Worked in team of four to develop internal tool used to compare databases. Took the lead on creation of webpage and Spring Boot API.
- Skills used: *Full-stack development (Java, Spring, HTML/CSS/Javascript), SQL*

Texas Convergent, Austin, Texas

August 2021 - December 2021

Incubator Engineer

- Worked with the startup Root Medical Translation to create an audio capture UI for a webapp for translation
- Skills used: *Angular, Azure, TypeScript, CSS/HTML/Javascript*

Data Inspired Young Analysts

June 2021 - July 2021

Student Mentor

- Led sessions, monitored students' progress, and answered questions related to Python programming, the Scikit-learn library, and fundamentals of Data Science as part of DIYA's Summer 2021 Data Science Bootcamp.
- Skills used: *Python, Scikit-learn, Seaborn, Pandas, NumPy*

PROJECTS

StudySmart: A Tool to Extract Targeted Questions from Released AP Exams:

August 2020 - May 2021

- *(Python, Google Sheets API, Tesseract OCR, Natural Language Processing, Scikit-learn, RegEx, Pandas, Tkinter, PandasTable)*
- Under mentorship of Professor Suma Bhat from the University of Illinois at Urbana-Champaign, designed and created downloadable executable application that utilizes Natural Language Processing to categorize questions from previously released AP Exams into units to help students focus on targeting specific areas to improve their scores

Data Inspired Young Analysts *(Python, Pandas, Scikit-learn)*

June 2021 - July 2021

- Predicted funding approval for school projects using data from DonorsChoose using data science and machine learning techniques and presented findings to a group of industry experts.

Magnet Man Game *(Java, Swing Library, Threads)*

February 2019 - April 2019

- Created multiplayer GUI game with horizontal side scrolling where players must avoid stationary and moving obstacles including tracking missiles, teleports, and power ups.

LEADERSHIP & COMMUNITY INVOLVEMENT

UT Austin TIDES - Science Sprint, Austin, Texas

March 2021

- Analyzed campus vehicle usage data to determine the scope of their greenhouse gas emissions and determine more efficient routing methods for campus vehicles. Presented findings to university staff to be incorporated into department policy.

UT Austin Science Olympiad, Austin, Texas

September 2021 - Present

Event Coordinator, Event Supervisor

- Wrote, proctored, and graded Science Olympiad exam for both middle-school and high-school divisions for UT Science Olympiad Invitational

Certificates & Awards

- CITI Certifications - Biomedical Researchers (February 2022), GCP For Investigational Drugs and Medical Devices (March 2022)
- CAS Case Study Competition - Honorable Mention (Spring 2022)