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; Operating Systems; Stochastic Processes; Intro to Statistics and Data Science
  National University of Singapore - Semester Exchange   Jan 2023 - May 2023
  Relevant Coursework: *Information Retrieval; Simulation, Intro to Quantitative Finance, Sonic Circuits*

SKILLS

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

EXPERIENCE

Esri (*Software Development Intern*)   January 2022 - Present
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, multiprocessing*

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 lead on webpage creation 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

Sentiment Analysis to Compare Characters across Translations of Homer's *Odyssey*   Nov - Dec 2022
  ● *R, Tidyverse ggplot, Python, Pandas, TextBlob, NLTK*
The Impact of Income and Government Expenditure on Education on the Life Expectancy of Countries   November 2022
  ● *R, Tidyverse, ggplot*
  ● Obtained and merged data from the WHO and World Bank to perform visual and statistical analysis related to the
    relationship(s) between GDP, % GDP spent on education, gender, and population size across countries over time.
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

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 middle 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)