

Neha Desaraju

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📍 Austin, TX

in nehadesaraju

🔗 estaudere.github.io

EDUCATION

Aug 2021 – May 2025
Austin, TX

B.S. Computer Science, *University of Texas at Austin*

Relevant coursework: Intro to Data Analysis, Intro to Scientific Computing, Data Structures

Aug 2017 – May 2021
Coppell, TX

High School Diploma, *Coppell High School*

Relevant coursework: Multivariable calculus, AP Computer Science A, AP Statistics

SKILLS

Languages

Python, R, C++, Fortran, Labview, Java, Javascript, HTML5, CSS,
SQL, dbt, git, bash/zsh/unix

Tools

Tensorflow, Pytorch, HuggingFace Transformers, GCP, Bigquery,
Tableau, React, NodeJS, Firebase, Trello, Google Datastudio,
KNIME, Flask, REST APIs, Anaconda, Apache Spark

RELEVANT EXPERIENCE

Feb 2022 – present
Austin, TX

Texas Rocket Engineering Lab, *Hotfire Software Engineer*

- Developing new interface for rocket engine test stand in Labview
- Calibrating pressure, force, and temperature sensors on test stand using regression analysis in Matlab
- Improving version control on all systems, including systems on the remote engine test site

Feb 2022 – May 2022
Austin, TX

Alois, *Software Intern*

- Selected as part of a program with Texas Momentum, an engineering and product incubator
- Developed a machine learning model to recommend Alzheimer's content to caregivers
- Architected model server on torchserve to better communicate with backend and frontend

Jun 2022 – Aug 2022
Dallas, TX

Citi Bank, *ML Intern*

- Worked with internal process automation team to use machine learning to automate data collection
- Developed end-to-end pipeline for automation of information extraction from document images including OCR, natural language processing, and image layout processing techniques
- Tested numerous models across metrics such as label example threshold for a variety of use cases to support proof of concept

Jun 2021 – Sep 2021
Remote

MVM, Inc., *Data Intern*

- Engineered data pipeline to consolidate online marketing data for creative ad agency
- Designed and developing dashboards for ecommerce clients including data from Facebook Ads, Shopify, Google Analytics, and more
- Calculated meaningful insights from consolidated data such as MER, ROI, and conversion rates

Jul 2020 – Apr 2021
Remote

Bluebonnet Data, *Data Fellow*

- Accepted to fellowship program connecting university students and tech professionals with data and tech backgrounds to Democratic campaigns as data analysts
- Worked on Donna Imam's TX-31 Congressional campaign to improve fundraising targeting by housing data and develop SQL database from scratch with API for campaign-collected data
- Analyzed state court opinions and jury data in Texas, Nebraska, California, and Utah to determine judicial racial bias in capital punishment cases

Jul 2020 – Apr 2021
Remote

Harvard Center for Geographical Analysis, *Research Assistant*

- Studied implications of modified SEIR epidemiological models under Harvard postdoctoral fellow Dr. Tao Hu for the COVID-19 pandemic
- Analyzed various COVID-19 machine learning prediction models to determine accuracy and modify to run interactively
- Presented research at a National Science Foundation webinar in February

ADDITIONAL EXPERIENCE

Sep 2020 – Aug 2021
Remote

Sunrise Movement, *Decentralized Communications Coordinator*

- Worked full time at a nonprofit dedicated to organizing for federal and local climate action in the US
- Supported over 20k organizers nationally for communications around a Green New Deal and for the November 2020 election
- Published in The New Republic, Reuters, and Mashable as a national spokesperson

May 2018 – May 2021
Coppell, TX

The Sidekick, *Entertainment Editor*

- Created and led content for student-run online publication and six print issues per year, wrote 70+ stories over two years
- Adapted student life and entertainment coverage and content for virtual newsroom during COVID-19

AWARDS

Apr 2021

Most Creative Hack, *Uncommon Hacks*

Apr 2021

Second Best Sociocultural Project, *Merge Hacks*

Mar 2021

Best in Finance Hack, *Athena Hacks, Bloomberg*