

# Neha Desaraju

✉ neha.desaraju@gmail.com

📍 Austin, TX

☎ 2148374477

in nehadesaraju

## EDUCATION

Aug 2021 – May 2024  
Austin, TX

### University of Texas at Austin

*Relevant coursework:* Intro to Data Analysis, Intro to Scientific Computing, Engineering Physics I & II

Aug 2017 – May 2021  
Coppell, TX

### 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

AWS, Airflow, Kafka, Docker, GCP, Bigquery, Tableau, React, NodeJS, Firebase, Trello, Google Datastudio, KNIME, Flask

## 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 – present  
Austin, TX

### Alois, Software Intern

- Selected as part of a program with Texas Momentum, an engineering and product incubator
- Developing a machine learning model to recommend Alzheimer's content to caregivers
- Architecting 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

- 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**