Pranay Gosar

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Education

University of Texas at Austin *Expected: 2024*

- Majors: Computer Science and Economics.
- Coursework: Data Structures, Discrete Math, Macroeconomics.

Texas Academy of Math and Science (TAMS), *3.95 GPA* *May 2021*

- Hosted by University of North Texas; completed 71 college credits towards bachelor's degree.
- Coursework: Microeconomics, Linear Algebra, Intro to Data Science, Computer Science I & II.

Experience

Computer Systems Research Lab, *Undergraduate Researcher* *January 2020 – September 2020*

- Research into the sparsity of convolutional neural networks under Professor Kavi and Professor Gulur.
- Developed a new method that increases computational efficiency while maintaining model accuracy.
- Awarded the TAMS Summer Research Scholarship to continue research full time during Summer 2020.

Human Intelligence and Language Technologies lab, *Undergraduate Researcher* *August 2019 - March 2020*

- Research into creating a model capable of learning directly from human speech under Professor Nielsen.

Extracurricular Activities

Open Source Initiative, *Co-president* *April 2020 – April 2021*

- Led initiative to contribute code to open source projects on GitHub, grew it from 2 to 35 members.
- Led TAMS involvement in projects such as OpenMRS, Ushahidi, and Open Data Kit.
- Led workshops to educate peers about Git and practical programming skills.

Software Development Club, *Co-founder and Co-president* *September 2017 - May 2019*

- Led club meetings, workshops, and tutoring sessions for the AP Computer Science classes.
- Grew the club from 2 to 25 members.

Senior Mentor *April 2020 – April 2021*

- Mentored incoming TAMS students, consulted with them, and helped them adjust to the academic rigor.

Projects

Sustainabrand *Spring 2021*

- Built an app that allows users to identify sustainable alternative brands to ones on their receipt.
- Used computer vision to parse receipts and used embeddings to compile database of sustainable alternatives.

Daybreak *Spring 2020*

- Built dashboard to track the spread of Covid-19.
- Formulated mathematical model to extrapolate Covid-19 data which was accurate for 3 months with 5% error.

Smart Scheduler *Summer 2020*

- Used medical studies to create an algorithm that ordered the user's tasks efficiently, using data on their behavior to optimize their productivity.

Battle Simulator, *3rd place HackTAMS* *Winter 2019*

- Built a Pokémon battle simulator.

Awards

PSAT: National Merit Finalist – one of approximately 15,000 high school students from a total of 1.6 million
Science Olympiad: Second place in Chemistry Lab; Second place Experimental Design; and first place overall in the Louisiana Tech Invitationals.
Hackathons: Third place at HackTAMS, best UI, best design, best use of Wolfram API.

Technical Skills

Programming Languages: Fluent in Java, Python, C/C++, Rust, JavaScript.
Frameworks: Flask, React, Keras, and TensorFlow.