

SANIA SINHA

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EDUCATION

- **B.S.: Michigan State University, Honors College** September 2021-May 2025
Computer Science & Math with minor in Data Science & CMSE & Cognitive Science [**GPA: 4.0**]

EXPERIENCE

- **Professorial Assistant** under Dr. Parisa Kordjamshidi September 2021- present
 - Mastered annotation for spatial role labelling and other medical domain purposes
 - Collaborated with [art research project](#) on making 3D visualization of word embeddings based on people's descriptions of a comfort object [1st place at UURAF]
 - Leading survey paper on compositional learning
- **President, AI Club** at MSU January 2022- present
- **Research Assistant, College of Human Medicine** January 2023- present
 - Automatic Speech Recognition and data annotation
- **Research Assistant, Biosystems and Agricultural Engineering** August 2023- present
 - Computer Vision project on prediction of immunofluorescent imaging
- **Admin and Ambassador, Women in Engineering** September 2022- present
- **Research Intern, Indian Institute of Technology, Kharagpur** January-December 2022
- **Calculus Tutor, CoRe, College of Engineering, MSU** September 2022- May 2023

PROJECTS

- **Hack to Enable 2021 6th position: [Cam Braille](#)**, An accessibility themed project of fingertip camera built to help blind people, which can read text and audio-dictate it to a connected audio device (*team project*)
- **Top 5 projects in MSU EGR 100: [Halloween Mask](#)**, A LED mask built with Arduino and Adafruit Gemma; selected for poster presentation at Michigan State event (*team project*)
- **Global Nominee, NASA SpaceApps 2023: [GitLinked](#)**, A social media and collaboration platform for developers (Top 32 in Open Science Marketplace Challenge) (*team project*)
- **Honorable Mention, ShellHacks 2023: [IncluScript.AI](#)**, live transcription and summarization for a seamless classroom experience for students with learning disabilities
- **[Next on Netflix](#)**: Led a multi-approach project on recommendation systems (*team project*)
- **[WebDevKids](#)**: An introduction to Web design & development (for Spartan Girls Who Code)
- **[Speech Recognition](#)**: Exploration of ASR (*team project*) [for CSE 404, top 2 class projects]

SKILLS

- **Languages:** Python, Java, JavaScript, HTML, CSS, C++, R, Apps Script, C, Dart, Assembly
- **Tools/Frameworks:** Git, GitHub, Gitlab, Unix, Arduino, Django, Flutter, NextJS
- **Skills:** Data analysis & Machine Learning (NumPy, Matplotlib, PCA, SVM, Word2Vec, etc)
- **Other Skills:** Project presentation, Content writing, Leadership, Public speaking
- **(Spoken) Languages:** English, Bengali, Hindi (native speaker proficiency in all)

HONORS & AWARDS

- Dean's List Fall 2021, Spring 2022, Fall 2022 & Spring 2023
- MSU UURAF 2023 First place winner in Digital Humanities
- Dean's Showcase of Stars 2021 & 2022
- 6th position, Hack to Enable 2021, Hackerearth; Top 10 team, <ION>athon 1.0, Hackerearth
- Cole Excellence Award 2022-23, Honors Excellence Award
- 99.25% (All India Rank 3), Highschool graduation exam (ISC 2021)