Curriculum Vitae

Sanchit Ghule

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Online Presence
https://sanchit-ghule.github.io/
https://github.com/sanchit002sanchit002

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Introduction

I attended IIT Madras as a graduate student in metallurgical and materials engineering (graduated in 2021). Since my graduation, I have been involved in assistive technology. Currently, I am working on a project to make STEM-based courses (STEM – Science, Technology, Engineering, and Mathematics) more accessible using audiotactile interactive graphics technology. In my current position, I advocate for the exploration of these assistive technologies as a means to enhance the learning experience of blind or visually impaired students in STEM fields.

https://joyofgiving.alumni.iitm.ac.in/projects/uncategorised/
technology-solutions-to-support-blind-and-visually-impaired-students-to-excel

If you are involved with a school, an NGO, or developing assistive technologies for individuals who are blind or visually impaired, I would be grateful for the opportunity to collaborate with you and explore potential synergies in this field.

Maintaining GitHub projects is something I try to do.

https://github.com/sanchit002sanchit002/

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Research Interests

Our research aims to create educational environments that are both inclusive and accessible by leveraging cutting-edge technology to bridge the gap in information access, promote social engineering to increase the accessibility of STEM-based courses for the visually impaired, and design innovative interfaces that enhance user experience.

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Technical Skills

- Frontend
  - Javascript
  - HTML5
  - React
  - Angular
  - WebAudio
- Backend
  - Bash
  - Node.js
  - Python
  - C++ (novice)
- Operating Systems
  - Linux (Arch, Ubuntu)
  - Windows (WSL2)
- Frameworks
  - Git
  - Docker
  - AWS (receptive)