

VASUNDHRA SHARMA

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EDUCATION

Vellore Institute of Technology

August 2023 - 2027

B.Tech. in Computer Science and Engineering (Specialization in AI/ML)

Related Coursework: Data Structures, Algorithms, Structured & OOP, Operating Systems, Database Management Systems, Computer Networks, Cloud Computing, Probability & Statistics

GPA: 8.70

EXPERIENCE

Newton School of Coding Club, VIT Chennai

November 2023 - Present

Vice President

- Organizing events for the club and managing various departments.
- Actively participating in events and discussions and focusing on peer learning and teamwork.
- Implementing new strategies and methods for betterment of the club and members.

IEEE Robotics And Automation Society, VIT Chennai Student Chapter

September 2024 - Present

Web Development Member

- Collaborate and contribute in programs and events throughout the year.
- Attending meetings and discussions, and focus on peer learning and teamwork.

The Comedy Club, VIT Chennai

September 2024 - Present

Design Lead

- Designing posts and posters for programs and events conducted throughout the year.
 - Attending meetings and discussions regularly, suggesting events and contributing in Club Expos .
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PROJECTS

InfraSafe: Infrastructure Risk Detection System

- Developed a YOLOv-based deep learning pipeline for detecting structural cracks and assessing severity. Implemented a rule-based risk classifier and built a surveillance car prototype using an ESP32 camera for real-time monitoring. ML model and frontend were developed separately due to time constraints.

Pix2Pix Image-to-Image Translation using PyTorch

- This project implements the Pix2Pix architecture using PyTorch, enabling image-to-image translation with paired datasets. Pix2Pix is a type of conditional GAN (cGAN) that learns a mapping from input images to output images using a U-Net-based generator and a PatchGAN discriminator.
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SKILLS

Languages & Platforms: Python, C, C++, Java, React, Node Js , Figma, GitHub, Linux, macOS, Windows

Skills : TensorFlow, PyTorch, NumPy, Pandas, Regression & Classification, Data Structures & Algorithms

Other Skills: Problem Solving, Leadership, Creative Writing