

# Sathvik Manthri

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in [LinkedIn](#)

[GitHub](#)



## Education

### Bachelor's degree in Mathematics and Computing

B-Tech program

CGPA (Sem 1-4 : 7.5)

Indian Institute of Science

2022 - 2026

### College

Telangana State Board of Intermediate Education

Percentage : 98.9

Alphores Junior college

2020 - 2022

### Schooling

The Board of Secondary Education, Telangana ; Classes:6-10

GPA : 10

Alphores High School

2015 - 2020

## Internships/Projects

### Research Intern

June 2024 - Present

→ Indian Institute of Technology (IIT), Indore

- I'm currently working on Multi-Task Learning techniques using Audio datasets

### Research Intern

May 2024 - August 2024

→ Indian Institute of Technology (IIT), Indore

- Contributed to the "Deep Learning for Genetic Studies" project, focusing on developing deep learning models and attention mechanisms for predicting gaps in genome sequences.

### Design Intern

May 2024 - June 2024

→ Coboticca Automation Private Limited

Mumbai, Maharashtra

- Designed a prototype for the storage and dispensing component of a home service robot, aimed at assisting elderly individuals with timely medication intake.
- Developed the robot's functionality to provide daily reminders and dispense the correct medication along with a glass of water, enhancing the independence and well-being of senior citizens.

### Interplanetary Rover Development

August 2023 - March 2024

→ Team Vicharaka @ IISc Robotics club

- Designed a rover with a 100kg payload, featuring autonomous navigation and a robotic arm for soil sample collection.
- Developed a complete CAD model of the rover in Fusion-360 and performed stress analysis and simulations in Gazebo. (3D model - [Rover](#))

### Course Project on State Space Models and HiPPO framework

May 2024

[Report](#), [Code](#) and [Presentation](#)

### SaiMan

June 2023

- Experimented with encrypted characters and pixelated canvases to add privacy to text messages and images - [SaiMan](#)

## *Responsibilities/Achievements*

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### **Team Vicharaka @ IISc Robotics Club**

*August 2023 - Present*

→ *Team Lead of Mechanical team and a member of Software team*

- Led the Mechanical sub-team in designing a rover by analysing different rovers present out there and referring to various papers related to the rover's stability, wheel design, etc and built 2 prototypes from scratch in our own workplace.
- Successfully held the Open Day 2024 @ IISc by showcasing our rover to the public - [Vicharaka @ OpenDay2024](#)
- Official magazine of IISc published an article on the success of our club - [Red Rover](#)

### **Databased @ IISc CS club**

*May 2023 - February 2024*

*Member and Co-lead of Design Team*

- Displayed interactive and fun projects on Open Day 2024 @ IISc - [Databased @ Open-Day2024](#)

## *Technical skills*

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### **Programming Languages/Tools**

C, C++,  $\text{\LaTeX}$ , Python & its libraries - PyTorch, Pandas, Numpy, Scipy, Tensorflow, HTML, CSS,

## *Certificates*

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- [Fundamentals of Accelerated Computing with CUDA C/C++](#)
- [Research Internship Completion Certificate @ IIT Indore](#)
- [Industrial Internship Completion Certificate @ Coboticca Automation](#)