

## Robotics and Technology Pursuits

### Background:

I have been involved in robotics since the 2<sup>nd</sup> standard, first working with Lego Mindstorm and then progressed into Arduino and more sophisticated microcontrollers.

I have been interested in technology from a young age, learning programming and participating in computers Olympiads from the age of 11.

### Awards and Honours:

**First Tech Challenge International Robotics Competition 2023** (*Semi-finalist, Most Successful Team to be entirely student-run, Head of Software, Head of Fundraising, Co-Head of Community Service*)

- Built an autonomous and tele-op robot with a gripper and lifter to lift cones and place them on poles in a team of 8.
- Reached the semi-finals as the most successful team to be entirely student-run
- Headed fundraising team to raise funds for the parts of the robot
- Headed software team, coding the robot in Java to have an autonomous mode
- Used Machine learning in Python to recognize the cones
- Co-headed community service team giving food to the homeless during the pandemic

### **IIT Bombay E-yantra Robotics Competition 2020**

- Coded in robotics simulations in Python during the pandemic.

**Robotex International Robotics Competition 2018, 2019** (*Two-time National Round qualifier, National Round Rank #1, Team Leader*)

- Built an autonomous line-following robot using the Arduino microcontroller in a team of 3 people.
- Ranked 4<sup>th</sup> in India in 2018
- Ranked 1<sup>st</sup> rank in India in 2019, setting course record.
- Served as the team leader of team 'Trial and Error' in 2019.

### **Harvard CS50x and CS50P Programming Courses**

- Completed Harvard's "Introduction to Programming" -10 week course
- Learnt Python, C, SQL, JavaScript, HTML and CSS