

SHRIRAM HARI

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EDUCATION

Indian Institute of Technology, Hyderabad

Hyderabad, India

Bachelor of Technology, Mechanical Engineering

Oct 2022 – Present

- Coursework: Mechanical Systems, Mechatronics, CAD Modelling, Solid and Fluid Mechanics, Foundry
- CGPA: 8.85/10

D.A.V Boys Senior Secondary School, Chennai

Chennai,

India

- AISSEE - CBSE Class XII
- CGPA: 97%

Jul 2022

SKILLS

- Languages & Software: C, C++, Python, SQL, MicroPython, Embedded C ,Java, Javascript, ReactJS, HTML, Git, Tensorflow, Keras, HuggingFace, Pytorch, ROS, MATLAB, AutoCAD, SolidEdge
- Data Structures and Algorithms : Sorting & Searching, Graph Algorithms, Dynamic Programming, Trees, Heaps.
- Competitive Programming : Code-chef, Code-forces & Leetcode.
- Web Development: Frontend Development using HTML,CSS & Next JS.
Projects: Portfolio website, Travel Rating System
- Game Development: 2-D FPS games built on Unity Engine in C#.
- Machine Learning: Tensorflow, Deep Learning in Computer Vision and Natural Language Processing.
Projects: NightVision camera, Chess Bot, PicaPool (startup)
- Robotics: Microcontrollers, Algorithm Implementation, ROS programming, CAD design.
Projects: Micromouse, Holonomic Drive Bot, Underwater Drone

EXTRACURRICULAR ACTIVITIES

- Western Music, Video Games, Photoshop
- Sports: Cricket, Badminton, Chess

PROJECTS & CONTESTS

1. **Chess Bot:** A computer-vision based robotic arm implementing MCTS and reinforcement learning.
2. **Travel Rating System :** An NLP-based review rating system website trained on large user data.
3. **PicaPool :** An ML based mobile application on ReactJS for pooling using generative AI.
4. **Portfolio Website :** Dynamic website made with HTML, CSS and JS.
5. **3D Tennis Game:** Interactive 2 player tennis game made in Unity Engine and C#.
6. **Micro-mouse :** A micro-sized bot capable of traversing a maze using the flood-fill algorithm.
7. **Holonomic Drive Bot:** An omnidirectional 3-wheeled bot capable of specialized actions in a surrounding.
8. Good performance in **ICPC pre-lims, eYantra** and **Inter-IIT** Tech Meet 12.0.

CERTIFICATIONS

Graph Search, Shortest Paths and Data Structures

Coursera : Stanford University

Neural Networks and Deep Learning

Coursera : Dr. Andrew NG

Generative AI Fundamentals

Google Cloud Skills Boost

Algorithms Part 1

Coursera : Princeton University

RESEARCH INTERESTS

- Reinforcement Learning : Autonomous navigation systems using RL algorithms and control systems.
- Neural Networks : Memory augmented continual learning and regularization techniques.
- DevOps : Automated Deployment & Cost Optimization in Computing services.