

S HARI PREETHAM

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EDUCATION

JNTUH-UCESTH

Btech *GPA: 7.5*

Hyderabad

2021 - 2025

Narayana Junior College

Intermediate MPC *GPA: 972/1000*

Hyderabad

2019 - 2021

EXPERIENCE

DRDL-DRDO

Project Intern

Hyderabad

Sept,2023 - Nov,2023

- Developed Python-based solutions to address critical aerodynamic heating challenges in MIRVs (Multiple independently targetable reentry vehicles) at DRDL. Transformed trajectory calculations and aerodynamic heating assessment by creating optimized code using NumPy, SciPy, and advanced numerical methods. Improved accuracy and efficiency significantly compared to previous MATLAB code. Enhanced the code's versatility to simulate various conditions, providing crucial insights into skin temperature and transient heat behavior, which were previously unattainable

IIT-BHU

Additive Manufacturing using 3D printing techniques

Varanasi

June,2023 - June,2023

- I gained proficiency in CAD modeling, including techniques like Stereolithography. I developed skills in reverse engineering and conducted simulations to optimize models. Additionally, I explored topology optimization and deepened my understanding of diverse 3D printing technologies and their practical applications.

SKILLS

CAD:	Fusion 360, Solidworks, AutoCAD
Ansys:	FEA, CFD
3d-printing:	SLS, STL, FDM
Programming Languages:	Python, JavaScript
Technologies:	React.js, Node.js, MongoDB, Git

PROJECTS

Made a Web3.0 fitness application AKA TrackMaster _ 3.0 Python, TensorFlow, HTML, CSS, JavaScript, Node.js, MongoDB, Open-CV

This is a full-stack project that uses computer vision, machine learning models from TensorFlow and AI algorithms to authenticate a user's workout activity and recommend workout and diet plans. I used Technologies like HTML, CSS, Bootstrap, JavaScript, Open-CV, TensorFlow, Node.js, MongoDB, Mongoose, passport.js etc. to make this project

Designed and developed a quadruped spider robot Arduino

Worked with different kinds of Arduino Boards, Bluetooth and WiFi modules. Programmed the robot's movement considering combinations of kinematic calculations, gait generation, and control algorithms. Used inverse kinematics to determine leg positions, coordinating leg movements to create stable gaits.

Netflix Full stack Clone React.js, Redux, HTML,CSS, Firebase

<https://netflix-clone-5dc59.web.app>

Successfully finished a full-stack development course, mastering React.js, Redux, Firebase, and Google Authentication. Designed a user-friendly Netflix-like interface, highlighting advanced proficiency in CSS and JavaScript

OTHER LEARNING EXPERIENCES

Setup a Mocktail Stall during my 1st year of undergraduate course

Made 10,000 rupees in sales in less than 6 hours. Managed sponsorship's, negotiated deals, executed marketing strategies, and designed eye-catching posters in past roles. Excited to bring leadership, creativity, and proven experience to future opportunities.