



EDUCATION AND SCHOLASTIC ACHIEVEMENTS

Program	Institute	% / CGPA	Year
B.Tech in Mechanical Engineering	Indian Institute of Technology, Madras	8.3	2026
XII (SSC)	Sri Chaitanya Junior College	97.9%	2022
Class X (SSC)	Sri Auro Mira High School	10	2020

- Secured an outstanding percentile of **99.5** in **JEE Mains 2022** and achieved an **All India Rank of 2735** in **JEE Advanced**.
- Secured **All India Rank-2332** in **KVPY-2021**, **All India Rank 663** in **TS-EAMCET**. Scored **100%** in Maths, Physics and Chemistry in school.

RELEVANT COURSEWORK & SKILLS

<ul style="list-style-type: none"> Strength of Materials Manufacturing Processes 	<ul style="list-style-type: none"> Manufacturing Technology* Materials & Design 	<ul style="list-style-type: none"> Design of Machine Elements* Kinematics & Dynamics of Machinery 	<ul style="list-style-type: none"> Applied thermal Energy Heat Transfer* 	<ul style="list-style-type: none"> Fluid Mechanics Machine Drawing*
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Languages: C, C++, Python | **Software:** Fusion 360, Solidworks, Autodesk Inventor, ANSYS, CATIA, Blender | **Tools:** Latex, MATLAB, Git, Figma

Libraries: OpenCV, TensorFlow, NumPy, Pandas, Keras, Matplotlib, Scikit Learn | **Others:** 3D Printing, Graphic Design, Team management, Mentoring

PROFESSIONAL EXPERIENCE

Criamos Engineering Intern	Global Design and Manufacturing company committed to deliver high-end precise engineered products through quality <ul style="list-style-type: none"> Worked in an industrial atmosphere on a chemical weighing and dosing system to achieve accuracy with tolerance of 1g. Developed a 3D Model of Small chemical weighing and dosing system to weigh chemicals, used Solidedge software. Successfully conducted a cost analysis for chemical weighing and dosing system for JK Tyres & Industries Ltd.
Encryptix AI&ML Intern	IT services and Consulting Company dedicated to revolutionize business operations through cutting-edge solutions <ul style="list-style-type: none"> Worked on three projects with dedication in machine learning with experts in the field to achieve high accuracies. Email spam detection, Movie-genre classification and Hand-written text generation are the projects I worked on. Additionally worked on an extra project: Credit card fraud detection. Implemented XG-Boost Classification model.
Inbound Aerospace Air Data System Design Intern	An emerging startup from the pre-incubator at IITM that primarily works on Aircraft design and structural analysis . <ul style="list-style-type: none"> Worked with young minds interested and dedicated to transform a startup into a thriving multi-national company. Used MATLAB in revolutionizing design and calibration of the X-33 Flush Air Data Sensing (FADS) System. Added two additional air data measurement ports for accuracy and designed an algorithm to calculate values accurately.
PulseFlow Design Intern	A groundbreaking startup revolutionizing India's energy landscape by pioneering advanced Flow battery technology <ul style="list-style-type: none"> Developed a 3D Model of Lead flow batteries for unmatched grid stability and renewable energy integration. Worked with a group of design enthusiasts to make a compact model reducing space using Autodesk Inventor Software

PROJECTS

Research Project Prof. Manish	<ul style="list-style-type: none"> A parallel platform for Virtual Reality Emulation of Wheelchair Navigation: Collaborated with an esteemed professor to design and prototype a cutting-edge 6 DOF wheelchair platform, revolutionizing rehabilitation efforts. Conducted advanced kinematic and dynamic simulations using ANSYS, ran a cost analysis to reduce cost remarkably.
Research Project Prof. Babji	<ul style="list-style-type: none"> Collaborated with an experienced professor on an innovative Badminton sport analysis project using OpenCV. Developing cutting-edge computer vision techniques to detect players, key points on the court, the shuttle, and the net.
Web-Cutter Mechanism	<ul style="list-style-type: none"> Worked and built a web-cutter mechanism to automatically cut material in portions of predetermined length and width. Utilized MATLAB to meticulously analyze and simulate the links, presenting detailed findings to the course instructor.
Multi-Nozzle 3DP	<ul style="list-style-type: none"> Built a 3D Printer with multiple nozzles to improve efficiency, print multiple materials and save material wastage. Worked with the setup of the motherboard and controlling of motors, nozzles and bed according to given G-Code.

POSITIONS OF RESPONSIBILITY

3 D P C	Strategist & Project Lead	<ul style="list-style-type: none"> Strategizing plans for a visionary team of 39 brilliant students working on revolutionary innovative projects. Guiding 7 selected project members in building a 3D Printer and revolutionizing 3D printing technology. Masterfully orchestrating a substantial budget of 4.5 Lakhs to fuel the club's electrifying projects, events and workshops.
	Coordinator & Project Member	<ul style="list-style-type: none"> Expertly coordinated with an elite team of 8 to dramatically elevate the club's activities and skyrocket its publicity. Contributed as a key project member in developing a groundbreaking Multi-Nozzle 3D printer with multiple nozzles. Developed a 3D Model of a printer using Fusion 360 and worked in controlling various parts using the motherboard. Conducted a workshop in Shaastra annual technical fest of IITM with a footfall of 50,000+ students and professionals.
	Health & Hygiene Secretary	<ul style="list-style-type: none"> Alakananda hostel: Unanimously elected by an electorate of 550+ students from India's best Technical Institution IITM. Expertly managing a substantial 5.5 Lakhs budget to transform the hostel environment, ensuring immaculate garden maintenance, luxurious washroom renovations, and spectacular hostel events to ensure healthy mental and social life.
	Academic Mentor	<ul style="list-style-type: none"> Avanti Fellows: An NGO that works for under-previllaged children which got its mention in G20 Summit 2023. Collaborated with a team of 4 students for mentoring 8 underprivileged students for JEE mains and advanced, resulting in all students clearing the exam and securing admissions in prestigious institutions of India like IITs, NITs, IIITs.
	Team member	<ul style="list-style-type: none"> Tri-Vaktra: A passionate and dynamic community spearheading groundbreaking defense innovations, revolutionizing India's capabilities and making a global impact through an array of innovative projects and cutting-edge technologies. Developing an Aircraft recognition system to detect and track aircraft, significantly enhancing national security.
	Inter-IIT Contingent	<ul style="list-style-type: none"> Participated in Inter-IIT Culturals 2023 conducted at IIT Kharagpur representing IIT Madras in Design and VFX. Achieved an impressive 6th position out of 23 participating IITs from all over India.

*upcoming course