Purva Pratapwar | ME22B179 | IIT Madras | [LinkedIn](#) | [Github](#)

EDUCATION AND SCHOLASTIC ACHIEVEMENTS

Program	Institution	CGPA / Percentage	Year
B.Tech in Mechanical Engineering	Indian Institute of Technology Madras	7.32/10	2026
XII (CBSE)	Vishwanath Appa Hurne College	87.83%	2022
X (CBSE)	Mahatma Phule English School	98%	2020

Scholastic Achievements	
Scholastic Achievements	● Secured Taluka Rank of **3** in class X and gained **100%** in Maths. ● Attained **190/200** in Computer Science in Class XII. ● Attained qualification for Stage-2 of **Homi J. Bhabha Balvaidnyanik exam.** ● Secured **98.40 percentile in JEE Mains,** attained category rank of **1247 in JEE Advanced**. ● Scored **99.2** percentile in **State Common Entrance Test Cell (CET).** ● Amongst top scorers in **NSSE(National Talent Search Exam)** twice. ● Bagged **Gold, Silver, and Bronze** Medals in **SOF** exams. ● **Bronze Medal** in BDSE(Brain Development Scholarship Exam).

SKILLS

- **Coding Skills:** Python, C++(basics), DSA in Python, HTML, CSS, Linux OS (Bash Module), C++**
- **Tools & Softwares (Technical):** Git, GitHub, Latex, Excel, PowerPoint, AutoCAD, MS Word, VScode, GeoGebra.
- **Tools & Softwares (Design):** Canva Pro, Figma, Illustrator, Photoshop, MS Clipchamp.

PROJECTS

Tic Tac Toe *Self Project*	● Developed an interactive tic-tac-toe game using **Python**. ● Utilized basic **sequential decision-making algorithm** to make the game **user-friendly**.
Portfolio *Self Project*	● Created a responsive collapsible **personal portfolio website** ([Link](#)) ● Developed frontend of a website using **HTML, and CSS** ensuring a functional website. ● Designed a user-friendly interface for gathering **input from users.**
Cash Flow Minimizer *Self Project*	● Built a system that **minimizes cash flow** in group of people. ● Utilized basic **min-max algorithm** to minimize the cash flow in the group. ● Utilized a **2-dimensional array** representing a transaction matrix between people
Ball Screw Design System *Course Project* *(Measurements, Instrumentation and Control)*	● Led comprehensive analysis of **Ball Screw Design System** by researching on the system. ● Developed **Matlab codes** for relevant graphs, and designed **Simulink Model** of the system. ● Deployed the model based on how **controllers and stepper motors** drive the system. ● Developed a standard **report** on the given thesis including all the necessary **derivations**
Aircraft Bin Mechanism *Course Project* *(Kinetics and Dynamics of Machinery)*	● Developed a **physical model** of the mechanism inside of aircraft bin using laws of physics**.** ● Created a **Matlab code** for the simulation and animation of the mechanism. ● Included codes for calculation of the derivates of motion like acceleration, velocity, etc.

RELEVANT COURSEWORK

ID2090	A **Scientific Computing Course** (used Linux OS) completed in Semester 1.		
Computer Science	Introduction and basics of **C++ Language** (completed in 12th grade)		
Functions of Several Variables	Principle of Economics	Series and Matrices	Differential Equations

POSITION OF RESPONSIBILITIES

Co-Curricular Secretary	**TechSoc** *Current*	● **Design Core** of the Branding Vertical of TechSoc Team. ● Will be leading the **2-tier** team's vertical of the club **single-handedly**.
	Shaastra O&IP *Dec22'- Jan23'*	● **Volunteer** of Shaastra (Tech-fest) Operations & Infra Structures Team. ● Handled **on-ground operations** in Tech Fest, Shaastra.
Student General Secretary	**Extra Mural Lectures(EML) Team** *Apr23'- present*	● **Creative Cell Coordinator** at Extra Mural Lectures team. ● I have been a **team leader** and held up an event solely. ● Conducted **15+** events of renowned personalities like **Dr. S Somnath, K. Annamalai.** ● Garnered an **overall footfall of 5000+** people as a **Creative Cell Coordinator.** ● **Moderated** the lecture by Dr.Prakash Baba Amte & Dr. Mandakini Amte.
	Saathi Team *(current)*	● **Super-Coordinator of Design & Publicity Vertical** of team Saathi.
	SGS ExecutiveTeam *May23'-April24'*	● **Member of the Student Executive Committee (SGS) Team.** ● Helped in the **management** of the Institute level events.
Cultural Secretary	**Drama Club** *May23'-April 24'*	● **Coordinator of the Drama Club** in the Institute. ● **Handled PR and Publicity tasks** for **5+ events** among the events held by the Club.

EXTRA-CURRICULAR ACTIVITIES

Literary and Speaking Arts	● **Inter-IIT (2023)** Street Play participant. ● Part of **10+ drama events** in school, one of the **lead actors** of Initiator Event of Drama Club.
Sports	● **District-level** long-run winner and secured **1st place** in Kabaddi.
Other	● Secured **2nd** and **3rd** place in dance competitions and sketching competitions. ● Won "**Student of The Year**" Award twice, served as **Team leader** for **3** years in school.

[1] SQL - **ongoing [2] Crowdfunding Intern at Muskurahat Foundation - **ongoing