



EDUCATION				
Program		Institution	CGPA/%	Year of Completion
B. Tech in Chemical Engineering		Indian Institute of Technology Madras	6.79	2025
12 <sup>th</sup> (RBSE)		G.S.S.S Hanumangarh Town Rajasthan	92.8	2020
10 <sup>th</sup> (RBSE)		G.S.S.S Pilibanga Rajasthan	86.17	2018
Scholastic Achievements	<ul style="list-style-type: none"><li>Solved <b>250+</b> competitive problems of <b>Data structure &amp; Algorithm</b> and <b>SQL</b> on leetcode, Gfg and HackerRank.</li><li>Selected in the <b>Interstate Cultural Tour</b>, organized by the Rajasthan state government. (Only <b>one</b> from <b>every District</b>)</li><li>Received the FFE Scholarship, recognizing outstanding academics with an amount of <b>2.4 lakh</b> and <b>skill trainings</b></li><li>Successfully selected for the <b>Service Selection Board</b>, a recommendation letter for <b>Officer entry</b> in the Indian Army</li></ul>			
COURSEWORK & SKILLS				
Coursework	Full-stack Web development*	Functions of Several Variables	Python in Data science*	DBMS*
	Intro to Data structure & Algorithm	Computational Thinking	Principle of Economics	Series and metrices
Skills & Tools	<b>Programming Languages</b> – C, C++, Python, HTML, CSS, JavaScript ES6, SQL, PHP			
	<b>Libraries &amp; Frameworks</b> - React.js, Bootstrap, Node.js, Express.js, NumPy, Pandas, Matplotlib, PyTorch			
	<b>Tools</b> – Figma, <b>PostgreSQL</b> , MYSQL, Excel, Git, GitHub, Spider, Jupyter Notebook, Tableau, Powerbi, PyCharm			
	<b>Skills</b> - Machine learning, Statistics, Probability, Basic linear Algebra, API integration, <b>Object oriented Programming</b>			
PROFESSIONAL EXPERIENCE				
Full - Stack Intern BASA Lab June '24 – Aug '24	Developing an 8-section website for IIT Madras Professor, showcasing his work and streamline communication with students			
	<ul style="list-style-type: none"><li><b>Designed</b> and successfully <b>implemented</b> a comprehensive 8-section website layout using HTML, CSS, and JavaScript</li><li><b>Built a Research</b> section with <b>6 detailed pages</b> featuring embedded images, using <b>Bootstrap</b> for <b>responsive</b> design</li><li><b>Optimized database tables</b> and relationships to enhance <b>CRUD operations</b>, data retrieval, and management efficiency</li><li>Developed a highly <b>secure</b> News section with a <b>hidden login</b> feature and submission forms using <b>Node.js</b> and <b>MySQL</b></li></ul>			
PROJECTS				
Personal Income Classification	Completed a classification project for predict personal income levels using <b>Logistic Regression</b> and <b>K-Nearest Neighbours</b> .			
	<ul style="list-style-type: none"><li>Analysed a dataset with <b>13 variables</b> and <b>31,978 records</b>, focusing on preprocessing, feature <b>selection</b>, and <b>cleaning</b>.</li><li>Built and compared <b>model accuracy</b> to support Subsidy Inc. in effective subsidy planning and misuse prevention.</li><li>Evaluated and validated model performance, ensuring it met the necessary assumptions for reliable deployment.</li></ul>			
Car Price Prediction	Built a linear regression model using data from 10,000 used cars to predict prices, achieving an R-squared value of 0.85			
	<ul style="list-style-type: none"><li>Thoroughly <b>cleaned data</b> by handling <b>5% missing</b> values and encoding <b>10</b> categorical variables for better model training</li><li>Effectively used <b>pandas</b> and <b>scikit-learn</b> to load and prepare the dataset, reaching a <b>MSE of 2500</b> on the test set</li><li>Applied <b>feature scaling</b> and <b>normalization</b>, improving model performance by <b>15%</b> and enhancing prediction accuracy</li></ul>			
Sales insights Data Analysis	Utilized SQL and relational databases to analyse customer and transaction data, generating key revenue insights.			
	<ul style="list-style-type: none"><li><b>Queried and filtered</b> Chennai market transactions to identify distinct products sold.</li><li>Analysed <b>US dollar transactions</b> and calculated total revenue for current year, including July month, using <b>SQL</b>.</li><li>Aggregated sales data with <b>INNER JOIN</b> and visualized results in <b>Tableau</b> for enhanced reporting and financial reporting.</li></ul>			
Library Management System (OOPs C++)	Developed a Library Management System to automate book and student record management using C++			
	<ul style="list-style-type: none"><li>Implemented using <b>C++</b> and advanced <b>file handling</b>, efficiently managing <b>100+</b> records and also can add new books</li><li>Ensured data integrity with input validation and efficient <b>file management</b>, storing some data directly in the code.</li><li>Designed a <b>user-friendly console-based interface</b> for seamless book issuance, returns, and administrative tasks</li></ul>			
DSA Sort Visualizer	Developed a web application to visualize the working of sorting algorithms <a href="#">Visualiser Frontend Interface</a>			
	<ul style="list-style-type: none"><li>Created intuitive sorting demonstrator for step-by-step envision of Merge sort, Quick sort, Heap sort, and Bubble sort</li><li>Implemented fully <b>adjustable speed</b> and <b>size parameters</b> to handle up to <b>1000 elements</b> with varying <b>1x to 10x</b> speed</li><li>Hosted the <b>interactive web application</b> and <b>deployed</b> the project code repository on <b>GitHub</b> for public access</li></ul>			
POSITION OF RESPONSIBILITY				
D&B Coord Shaastra 2022-23	<ul style="list-style-type: none"><li>Coordinated <b>Robo Ocean 2023</b> competition sponsored by <b>Caterpillar Inc.</b>, engaging <b>80+ participants</b> and <b>20+ teams</b></li><li>Managed competition logistics, ensuring <b>99.9%</b> seamless execution of <b>2 rounds</b>, with <b>100%</b> team participation</li><li>Oversaw <b>team of 5 volunteers</b>, communicating with <b>200+ participants</b>, painted and designed <b>arena</b> in IITM Workshop</li></ul>			
AcadBuddy Saathi	<ul style="list-style-type: none"><li>Guided 2 juniors on course selection, add/drop procedures, and curriculum, improving their decision-making skills</li><li>Proactively provided past resources, answered academic questions, and supported other academic needs</li></ul>			
EXTRA-CURRICULAR ACTIVITIES				
Volunteer	<ul style="list-style-type: none"><li><b>Saathi, IITM</b>: Guided <b>50+</b> freshers during registration; assisted parents with admission process and required doc</li><li><b>Mitr, IITM</b>: Promoted mental health awareness by executing 5 programs in 5 days across various campus locations</li></ul>			
NCC	<ul style="list-style-type: none"><li>Earned a <b>B Certificate (A grade)</b> in NCC and attended a <b>National Camp</b> in Tambaram, excelling in drills and parades.</li><li>Participated in skeet <b>shooting</b> during camp, firing 20+ rounds with 0.22 Deluxe and DBBL guns and other activity.</li></ul>			
Hobbies	<ul style="list-style-type: none"><li>Enthusiastic about <b>sci-fi</b> web series, contributing to open-source projects on GitHub, and exploring various <b>AI Tools</b></li></ul>			
Sports	<ul style="list-style-type: none"><li>Played Kabaddi and cricket in village tournaments, developing teamwork and athletic skills and also like running</li></ul>			