

EDUCATION & SCHOLASTIC ACHIEVEMENTS					
Qualification		Institute		C.G.P.A. / %	Completion Year
BTech in Chemical Engineering		Indian Institute of Technology Madras		8.33/10	2027*
Class XII (CBSE <sup>1</sup> )		Sanskar Public School		93.00%	2023
Class X (CBSE)		St. Paul's School		96.80%	2021
<ul style="list-style-type: none"><li>Achieved Top <b>3.4%</b> among <b>200,000+</b> candidates in JEE<sup>2</sup> Advanced 2023, demonstrating strong analytical problem-solving skills and mastery</li><li>Secured an AIR<sup>3</sup> of <b>2881</b> (Top <b>0.24%</b>) out of <b>12,00,000+</b> candidates in JEE Mains 2023, demonstrating analytical skills and subject knowledge</li><li>Successfully selected for the prestigious <b>Kotak Kanya Scholarship</b>, recognizing outstanding academic excellence and leadership potential</li></ul>					
PROFESSIONAL EXPERIENCE					
Internships	<b>Python Developer</b> <i>Upskills Campus</i> <i>May'25-June'25</i>	<i>Developed a lightweight <b>file organizer</b> to automate categorization of desktop files, improving workspace efficiency</i> <ul style="list-style-type: none"><li>Implemented extension-based file classification for <b>1000+ files</b> into <b>7+</b> organized categories using <b>os</b> and <b>shutil</b></li><li>Automated dynamic folder creation and efficient file relocation across <b>20+</b> unique and diverse digital file types</li><li>Enhanced user experience through robust <b>error handling</b> and comprehensive validation for invalid directory paths</li></ul>			
	<b>Data Science</b> <i>CNH<sup>4</sup> Industrial N.V.</i> <i>April'25-May'25</i>	<i>Developed a <b>machine learning</b> model to accurately <b>predict tractor purchases</b> based on <b>seasonal and weather data</b></i> <ul style="list-style-type: none"><li>Preprocessed <b>1k+</b> records using one-hot encoding and feature scaling, enabling cleaner input, faster convergence</li><li>Trained &amp; evaluated <b>3 models (Logistic Regression, Random Forest, Gradient Boosting)</b> using <b>80:20</b> train-test split</li><li>Evaluated overall model performance using <b>RMSE<sup>5</sup>, R<sup>2</sup>, classification metrics</b>, and feature importance analysis</li></ul>			
PROJECT WORK					
ML Project	<b>Movie Recommender</b>	<i>Developed a content-based <b>Movie Recommender</b> using metadata from 5,000+ films, suggesting titles via Streamlit</i> <ul style="list-style-type: none"><li>Built a content-based Movie Recommender using <b>TF-IDF<sup>6</sup></b> on <b>5k+</b> movies, generating <b>5K+</b> vectors for comparison</li><li>Computed <b>cosine</b> similarity matrix over <b>25M+</b> combinations, enabling accurate <b>top-5</b> recommendations per input</li><li>Integrated model into responsive <b>Streamlit</b> app with <b>&lt;1s latency</b>, offering real-time suggestions through a clean UI</li></ul>			
DSA Projects	<b>Sudoku Solver</b>	<i>Built an interactive <b>Sudoku Solver</b> using Python, showcasing algorithmic problem-solving with <b>GUI integration</b></i> <ul style="list-style-type: none"><li>Developed a <b>9x9</b> Sudoku interface using <b>Tkinter GUI<sup>7</sup></b>, supporting real-time solving and intuitive input for <b>80+</b> cells</li><li>Applied <b>DFS<sup>8</sup>-based backtracking algorithm</b> achieving consistent solution generation within <b>~1s</b> for valid puzzles</li><li>Integrated comprehensive input validation and <b>robust error handling</b> to ensure puzzle <b>correctness</b> before solving</li></ul>			
	<b>Cash Flow Minimizer System</b>	<i>Implemented a Python system to minimize the <b>financial transactions</b> among banks using diverse payment methods</i> <ul style="list-style-type: none"><li>Reduced the interbank transactions by up to <b>60%</b> via <b>heap-based</b> matching of net balances using <b>priority queues</b></li><li>Designed a highly user-friendly interface for input of banks and transactions with real-time settlement instructions</li><li>Simulated multi-channel payment methods (SWIFT, RTGS, NEFT, IMPS) to enhance banking network applicability</li></ul>			
Web Dev.	<b>Spotify Web Clone</b>	<i>Built a basic <b>Spotify</b> clone using <b>HTML<sup>9</sup></b> and <b>CSS<sup>10</sup></b> to replicate core design elements of a modern streaming platform</i> <ul style="list-style-type: none"><li>Created key <b>UI<sup>11</sup></b> components like <b>navigation bar</b>, <b>album cards</b>, and <b>playback section</b> using clean <b>HTML</b> structure</li><li>Skillfully styled the interface with modern <b>CSS</b>, closely <b>mimicking Spotify's</b> aesthetic layouts, icons, and gradients</li><li>Focused on pixel-perfect alignment and clear visual hierarchy to closely mirror a professional music streaming app</li></ul>			
POSITIONS OF RESPONSIBILITY					
Case Club	<b>Strategist</b> <i>(April'25-Present)</i>	<i>Spearheading a 4-tier team of <b>20+ members</b> to actively foster problem-solving culture and enhance analytical skills</i> <ul style="list-style-type: none"><li>Strategizing <b>PM<sup>12</sup>101</b> YouTube series to simplify PM preparation for <b>5k+</b> students; targeting <b>10k+</b> views via content</li><li>Actively boosting social media presence with reels and updates; aiming for <b>3x</b> engagement and <b>25K+</b> monthly reach</li></ul>			
	<b>Associate</b> <i>(May'24-April'25)</i>	<i>Worked in a team of <b>16</b> to actively promote structured thinking and problem-solving culture across the institute</i> <ul style="list-style-type: none"><li>Co-authored the <b>3rd edition</b> of IITM <b>Consulting</b> and <b>Product Management</b> Case Books with cases from top firms</li><li>Successfully conducted Pan-India <b>business case competition</b> with Traya, achieving a <b>4x</b> increase in participation</li></ul>			
Skill Development Cell	<b>Deputy Head</b> <i>(April'25-Present)</i>	<i>Designed strategies for <b>Bluebook automation</b>, <b>Career Fest logistics</b>, and club collaborations to scale SDC impact</i> <ul style="list-style-type: none"><li>Proposed <b>Bluebook automation</b> for <b>9000+</b> students using Forms, validations, and <b>AI</b> tools to cut <b>80%</b> manual work</li><li>Strategically planned <b>3-day Career Fest</b> with <b>10+</b> club tie-ups, targeting <b>5000+</b> students via multi-channel outreach</li></ul>			
	<b>Manager</b> <i>(May'24-April'25)</i>	<i>Coordinated, ideated, and executed events for the career growth of <b>13000+</b> students and the research scholars</i> <ul style="list-style-type: none"><li>Assisted in creating the <b>SDC Bluebook</b>, compiling key resume tips and insights from <b>100+</b> successful candidates</li><li>Helped organize and fully verify <b>300+</b> mock resumes to ensure readiness for internship and placement processes</li></ul>			
COURSES & SKILLS					
Functions of several variables		Computational Programming & Process Simulation Lab		Computational Techniques	
Series and Matrices		Programming, Data Structures and Algorithms		Programming in Python	
Principle of Economics		Introduction to Programming in C		Machine Learning Foundations*	
Software	MATLAB, Aspen, Jupyter, Canva		Programming Language	Python, C++, C, HTML, CSS, SQL	
Miscellaneous	MS Excel, Github, VS Code, ML		Libraries & Frameworks	Pandas, NumPy, Matplotlib, Tkinter	
EXTRACURRICULAR ACTIVITIES					
<b>Inter IIT 7.0</b> <i>(Culturals Meet)</i>		<ul style="list-style-type: none"><li>Selected from <b>150+</b> applicants to represent IITM in Inter-IIT <b>Street Play Contingent</b>, showcasing great acting skills</li><li>Chosen for a lead role from <b>50+</b> candidates in a performance before <b>1000+</b> students, showcasing stage presence</li></ul>			
<b>Culturals</b>		<ul style="list-style-type: none"><li>Won <b>1st place</b> twice in <b>Inter-Hostel Stage Plays</b>, successfully leading a team and consistently showcasing creativity</li><li>Walked as <b>model</b> at IIT Madras <b>Research Park's</b> Diwali event, showcasing confidence, stage presence, teamwork</li><li>Served as <b>solo MUA<sup>13</sup></b>, leading and managing the entire team for the <b>Fashion Contingent</b> at <b>Festember</b>, <b>NIT Trichy</b></li><li>Secured <b>2nd position</b> in Ethnic Day dance (Rajasthani folk) among <b>20+ teams</b>, performed before <b>1000+ audience</b></li></ul>			
<b>Sports</b>		<ul style="list-style-type: none"><li>Captained a 12-member team to <b>Gold</b> in <b>Inter-Hostel Kho-Kho</b> at <b>Schroeter</b>, showcasing leadership and team coordination</li></ul>			
<b>Miscellaneous</b>		<ul style="list-style-type: none"><li>Assisted as <b>TA<sup>14</sup></b> for <b>GN6106</b>, actively evaluating assignments and mentoring <b>12</b> students to improve performance</li></ul>			

1. Central Board of Secondary Education | 2. Joint Entrance Examination | 3. All India Rank | 4. Case New Holland | 5. Root Mean Square Error | 6. Term Frequency-Inverse Document Frequency | 7. Graphical User Interface | 8. Depth First Search | 9. Hypertext Markup Language | 10. Cascading Style Sheets | 11. User Interface | 12. Product Management | 13. Makeup Artist | 14. Teaching Assistant | \*Ongoing