



EDUCATION AND SCHOLASTIC ACHIEVEMENTS			
Program	Institute	% / CGPA	Year of Completion
Dual Degree in <b>Biological Sciences</b>	Indian Institute of Technology, Madras	<b>7.85</b>	2026
Class XII	Rosary Matriculation Higher Secondary School	85%	2020
Class X	Rosary Matriculation Higher Secondary School	95%	2018
<b>Scholastic Achievements</b>	Achieved <b>99.1</b> percentile in Tamil Nadu SSLC, and honored with the prestigious Tamgrads Scholarship. (2018)		

COURSEWORK & SKILLSET				
<ul style="list-style-type: none"> <li>Machine Learning Techniques</li> <li>Deep Learning</li> </ul>	<ul style="list-style-type: none"> <li>Reinforcement Learning</li> <li>Recommender Systems</li> </ul>	<ul style="list-style-type: none"> <li>Python for beginners</li> <li>Programming in C++</li> </ul>	<ul style="list-style-type: none"> <li>Bioinformatics</li> <li>Biostatistics</li> </ul>	<ul style="list-style-type: none"> <li>Computer Simulations</li> <li>Principles of Economics</li> </ul>
<b>Programming Languages:</b> Python, C, C++, Java, SQL		<b>Tools:</b> Excel,numpy, pandas, tensorflow, scikit-learn, Jupyter, PyTorch, Git		

RESEARCH EXPERIENCE	
Walmart Centre for Tech Excellence Project Associate	<b>Joined as a Project Associate under Prof. Rakhi Singh, leading MSME Survey &amp; Data Analysis for Policy Recommendation</b> <ul style="list-style-type: none"> <li>Analyzed previous surveys and research papers on Discrete Choice Experiments for <b>survey design and data analysis</b></li> <li>Will process the raw data and apply <b>machine learning techniques</b> to analyze it, generating data-driven insights</li> </ul>
Ashok Leyland Product Development (June'23 -July'23)	<b>Reduced the probability of road accidents by developing driver intoxication detection technology in steering wheel</b> <ul style="list-style-type: none"> <li>Used <b>SVM algorithm</b> to analyze PPG sensor data, predicting driver intoxication with an impressive accuracy of <b>95%</b></li> <li>Achieved a <b>30% increase</b> in the <b>sensitivity of the sensor</b> with multiple sensor integration &amp; continuous monitoring.</li> </ul>
ISMO Biophotonics Industrial Intern (Dec'22 - Jan'23)	<b>Evaluated the potential efficacy of microfluidic chips to culture cancer cells to test drugs for personalized treatment.</b> <ul style="list-style-type: none"> <li>Conducted research on 2D &amp; 3D cell culture models to analyze the feasibility in simulating tumor microenvironment</li> <li>Explored <b>10+</b> imaging and analytical techniques to assess the characteristics &amp; behavior of cancer cells.</li> </ul>

PROJECTS	
Sentimental Analysis	<ul style="list-style-type: none"> <li>Executed sentiment analysis on Amazon reviews utilizing <b>NLTK</b> for initial text processing and sentiment analysis with <b>VADER</b>, and <b>transformer-based model (RoBERTa)</b> provided by Hugging Face enhancing model accuracy.</li> <li>Evaluated model performances, highlighting the effectiveness of transformer models over traditional methods.</li> </ul>
Customer Churn Prediction	<ul style="list-style-type: none"> <li>Built a <b>neural network</b> for customer churn prediction, achieving <b>80%</b> accuracy in identifying attrition patterns.</li> <li>Implemented feature engineering techniques and normalization processes to enhance the model's efficiency, such as <b>one-hot encoding</b> of categorical variables and normalization of continuous variables using <b>Min-Max scaling</b>.</li> <li>Compiled the model with <b>Binary cross entropy</b> as the loss function and <b>Adam optimizer</b> for updating weights.</li> </ul>
Breast Cancer Prediction	<ul style="list-style-type: none"> <li>Developed a data <b>preprocessing pipeline</b> for the Wisconsin Diagnostic Dataset to enhance model performance.</li> <li>Implemented machine learning algorithms including <b>Logistic Regression, Random Forest, XGBoost, Gradient Boosting, &amp; Naive Bayes</b>, achieving a maximum accuracy of <b>96%</b>, which helps enhance clinical decision making.</li> <li>Evaluated model performance by producing detailed metrics such as <b>confusion matrices</b> and <b>classification reports</b>.</li> </ul>
Customer Segmentation	<ul style="list-style-type: none"> <li>Developed a customer segmentation model facilitating <b>targeted marketing</b> and personalized customer service.</li> <li>Optimized <b>K-means clustering</b> for classification by income and spending, using <b>elbow method</b>, for optimal clusters.</li> </ul>

PROFESSIONAL EXPERIENCE	
Procter & Gamble Product Supply (May'24)	<b>Among the top 50 candidates, out of 7k+ Applicants across India, selected for the P&amp;G Spotlight'24: Product Supply.</b> <ul style="list-style-type: none"> <li>Optimized the working of a <b>12-step gamified chain</b> across a period of <b>3</b> days as part of the National Level program.</li> <li>Examined the Pampers &amp; Tide plants; Analyzed the assembly line efficiency identifying key areas for improvement.</li> </ul>
Apollo Hospitals Management Trainee (June'24 - Sept'24)	<b>Led a team of 4 interns to manage the marketing and public relations endeavors for Apollo hospitals for 4 months.</b> <ul style="list-style-type: none"> <li>Leveraged <b>social media analytics and AI tools</b> to improve SEO and SMO, ensuring data-driven decision-making.</li> <li>Secured coverage in 15+ media outlets by strategizing marketing initiatives for 2 International Conferences at Apollo.</li> </ul>

POSITIONS OF RESPONSIBILITY	
Placement Cell	<b>IPR Coordinator (May'23 -Mar'24)</b> <ul style="list-style-type: none"> <li>Facilitated placements and internships of <b>1500+ IITM students</b> in 50+ business, finance, analytics, and tech firms.</li> <li>Led outreach to <b>100+</b> banks &amp; achieved a <b>30%</b> inc in conversions by improving the corporate mailing strategy.</li> <li>Spearheaded the <b>1st batch</b> of Auxiliary Coordinators to expand outreach with new innovative mediums effectively.</li> </ul>
	<b>Dept Coordinator (Apr'22 - Mar'23)</b> <ul style="list-style-type: none"> <li>Achieved a <b>43%</b> increase in the number of offers provided to the final and pre-final year students of Biotechnology.</li> <li>Guided <b>25+</b> final-year students applying for placements and pre-final-year students for internships throughout.</li> </ul>
<b>Saarang-FinanceCoordinator (Apr'22 - May'23)</b> <ul style="list-style-type: none"> <li>Executed an important role in structuring the budget of <b>~INR1.9 crores</b> for Saarang 2023, with over <b>70k+ in footfall</b>.</li> <li>Managed the <b>top 31 restaurateurs</b> of Chennai for sponsorship deals, generating over <b>INR16.5 Lakhs</b> in revenue.</li> </ul>	

EXTRACURRICULARS & CO-CURRICULAR	
Hackathon	<ul style="list-style-type: none"> <li><b>Placed first</b> among <b>40+</b> participants in the '<b>Spot the Crack</b>' hackathon conducted by <b>Artificial Intelligence club, CFI*</b></li> </ul>
Choreo	<ul style="list-style-type: none"> <li><b>Placed first</b> among <b>15+</b> teams in the inter-hostel Competition "Loop Dance" at <b>LitSOC 2021-22</b>, leading a team of 10.</li> </ul>

## Millenium Fellow

- Headed the **EmpowerVillage** project, facilitating the empowerment of **20+** rural women living in Chennai's outskirts.