



EDUCATION			
Institute	Program	CGPA	Year
Indian Institute of Technology, Madras	Dual Degree in Department of Biotechnology	7.77*	2027
Narayana Junior College, Vijayawada	Class XII (State board)	96.6%	2022
Narayana CO School, Nellore	Class X (State board)	99.5%	2020
RESEARCH AND PROFESSIONAL EXPERIENCE			
FACT App, ABPUA ¹ Growth intern Jun'23 – Jul'23	Delved into diverse facets of a government-affiliated startup and played a pivotal role in its exponential growth		
	<ul style="list-style-type: none">Mentored over 100 juniors with their JEE Examination and JoSAA counselling and provided expert assistanceImproved app UI/UX with various teams, increasing user adoption by 25% and community engagementProduced promotional contents to drive ASO² and user acquisition, mentoring 130+ students in JEE counselling		
Research Project* IIT Madras May'25 - Present	Working on Driver Analytics Platform to enhance driver safety and efficiency under guidance of Prof. Babji Srinivasan		
	<ul style="list-style-type: none">Analyzed eye gaze patterns of a control room worker using VETA¹ to optimize attention and workflow efficiencyMinimizing accidents by 22% using DAP that uses AI and sensors to detect DUI, seat belt use, PPE & driver identityDeveloping a PPE² detection system with MobileNetV2 and YOLOv8, targeting 95%+ accuracy for 18+ PPE types		
PROJECTS			
Product Marketing Analysis	Modeled marketing diffusion and strategies using transport phenomena concepts Prof. G K Suraishkumar		
	<ul style="list-style-type: none">Analyzed product marketing strategies like personalized email campaigns and targeted social media advertisingIdentified a potential 20% increase in overall market appeal based on customer behavior insightsRecommended user journey improvements which resulted in a 30% boost in customer engagement		
Adaptive ML-driven Liver-on-a-chip	Enhanced liver-on-chip model accuracy by 18% via AI-driven adaptive feedback Prof. Vignesh muthuvijayan		
	<ul style="list-style-type: none">Proposed adaptive liver-on-a-chip system with optical oxygen and glucose sensors and Random Forest modelEnabled real-time biomarker monitoring and reduced the need for animal testing by 50% in key toxicity studiesDesigned a dynamic microenvironment framework using microfluidics and multi-cell co-culture for improving drug testing precision, maintaining long-term liver functionality and reducing animal model dependence		
Unified Digital Health Platform	Proposed this platform to increase healthcare accessibility to all Prof. VR Muralidharan and Prof. G Venkatesh		
	<ul style="list-style-type: none">Built a digital health platform with EHRs⁵ and smart scheduling, cutting wait times by 30% and costs by 20%Collected data from 20+ healthcare professionals, 200+ patients and college students for adoption insightsValidated the platform's financial viability and scalability through CBA⁶, resulting in ₹10+ crore annual savingsProposed policies to bridge the 60% urban-rural care gap and enforced data privacy compliance measures		
Clinical Analysis of Ovarian cancer patients	Analyzed impact of various treatment methods on patients survival using ML models Prof. Meiyappan		
	<ul style="list-style-type: none">Preprocessed the TCGA-OV⁷ dataset, retaining 218 samples with 6 features after cleaning and normalizing dataApplied Random Forest, XGBoost and Logistic Regression to assess age importance in ovarian cancer survivalAchieved an ROC-AUC⁸ score of 0.824, with precision of 0.852 and recall of 0.819 using Random Forest		
POSITIONS OF RESPONSIBILITY			
Placement Cell BT - Coordinator May'24 - Apr'25	<ul style="list-style-type: none">Contributed to achieving 1500+ Phase 1 placement offers and 650+ total internship offers for students of IITMServed as Point of Contact between companies and 70+ IITM students, facilitating placements and internshipsCoordinated with company HRs of day 2 and day 3 during placements thus generating 10+ unique offers		
	<ul style="list-style-type: none">Received ISO 9001:2015 certificate for documenting and overseeing Sangam and Lit-soc competitionsConducted in-depth risk analysis of all events and shows, high-end documentation like KPI¹⁰ and Data Analysis		
Student Relations Coordinator Jun'23 – Jan'24	<ul style="list-style-type: none">Led publicity and outreach initiatives for Saarang, the largest student-run Cultural festival in India at IIT MadrasDesigned over 10+ compelling promotional assets (brochures, handbooks, posters) to elevate brand presenceCompiled a database of 400+ colleges to strategically pitch and maximize footfall for online Milan and Saarang		
	<ul style="list-style-type: none">Designed the Club's logo and created 5+ promotional posters for branding and publicity of various eventsContributed to event and financial management as part of a 15+ member team organizing over 10 eventsAssisted in conducting 2 flagship events that attracted 250+ participants each, supporting event logistics		
Biogen, Shaastra Coordinator May'23 – Apr'24	<ul style="list-style-type: none">Successfully conducted a Research based competition as part of a 13-member team for Shaastra in 2022 and 2023Managed logistics and communication efficiently for 600+ participants throughout online and offline event roundDeveloped problem statements addressing challenges in Lung Cancer and Stem Cell & Regenerative Medicine		
	<ul style="list-style-type: none">Developed the iGEM Wiki page and project presentation videos for the Annual Grand Jamboree event 2023Designed posters for promotional content in social media handles and events as a part of a 7-member teamWon a Gold Medal at the iGEM 2023 Grand Jamboree among 400+ teams spanning 50+ countries		
RELEVANT COURSEWORK AND SKILLS			
Product & Business courses: <ul style="list-style-type: none">Figma basicsBusiness strategy (miro)Marketing managementBusiness Analytics & Text Mining Modeling using PythonBlender*Product management: building a product* Mathematical courses: <ul style="list-style-type: none">Functions of Several VariablesSeries and MatricesProbability, Statistics and Stochastic Process		<ul style="list-style-type: none">BiostatisticsTransport Phenomena in Biological Systems Computational courses: <ul style="list-style-type: none">Introduction to Programming (C language)Numerical methods for biologyProgramming in PythonComputational Tools: Algorithms, Data Structures and ProgramsAnalysis and Interpretation of Biological DataTechnology and Public Policy	
		Programming Languages/Utilities: C, SQL, Python, MATLAB Tools/Frameworks: Figma, Miro, Flutter Libraries: NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn Softwares: Sketch up, MATLAB, AutoCAD, MS Office, Adobe, Blender	

EXTRA - CURRICULARS	
Social Activities	<ul style="list-style-type: none"> Served as Cultural Captain for 2 years, overseeing the successful execution of events and annual festivities Organized essay, dance and singing competitions along with a sports event on International Sports Day Mentored 2 new undergraduates in adjusting to campus life and overcoming academic or personal challenges
Sports	<ul style="list-style-type: none"> Among Top 10 out of 80+ to be selected for National Sports Organization (NSO) Throw ball
Culturals	<ul style="list-style-type: none"> Learned Bharatanatyam for 6 years in school and continued it in college through the NCA program Secured 1st place in the Ethnic Day Dance Competition for 2 consecutive years as part of a 15+ member team Completed structured violin training under the L-TAP¹³ curriculum, developing musical and performance skills
(*) - Ongoing, ABPUA ¹ - Akhil Bharatiya Prathibha Utthan Abhiyan, ASO ² - App Store Optimization, VETA ³ - Visual Eye Tracking Analytics, PPE ⁴ - Personal Protective Equipment, CBA ⁵ - Cost-Benefit Analysis, TCGA-OV ⁷ - The Cancer Genome Atlas (Ovarian cancer), QMS ⁹ - Quality Management System, KPI ¹⁰ - Key Performance Indicator, KKTC ¹¹ - Karka Kasadara Tamil Club, iGEM ¹² - International genetically engineered machines, L-TAP ¹³ - Leisure time activity program	