



EDUCATION AND SCHOLASTIC ACHIEVEMENTS

Program	Institute	% / CGPA	Year
B.Tech in Chemical Engineering	Indian Institute of Technology, Madras	7.09	2026
Class XII (BSEB ¹)	College of Commerce, Arts and Science, Patna	81.4 %	2021
Class X (CBSE ²)	Aadarsh Vikas Vidyalaya, Patna	90.0 %	2019

ACHIEVEMENTS

- Chosen as **delegate** for **HPAIR Conference in Japan**, representing in a **global** forum for leadership and international collaboration in **2025**
- First Runner-up** in Future Insights Challenge by **Textify Analytics** for advanced data analysis, 5 - 10 year forecasting, and Industry insights
- Selected to present a **Research paper** at prestigious **CompFlu-24³ International Soft Matter Research Conference, IIT Hyderabad in 2024**
- Ranked **87th** at State and 1474th at the National level in **Mathematics** by the Science Olympiad Foundation, demonstrating excellence.

PROFESSIONAL EXPERIENCE

Cybersecurity Intern (Under Prof. N.S. Narayanaswamy) (June'25 – Present)	<i>AI/ML based solution capable of detecting phishing domains and pages for specific target organisations.</i>
	<ul style="list-style-type: none"> Implemented domain similarity, WHOIS, DNS, and age verification, with 92% suspicious phishing domains detected Built advanced parsing-based web crawling with form detection and SSL validation, detecting 88% malicious pages Applied robust screenshot-based pattern recognition with ML model, increased phishing detection coverage by 65%
	<i>Automated project tracking in Monday.com for real-time updates and enhanced stakeholder visibility</i>
Project Monitoring & Analytics Intern (ACR Office, ICSR IITM) (May'25 – Aug'25)	<ul style="list-style-type: none"> Built data-driven project management systems via Monday CRM, streamlining fund tracking, allocation deployment Automated the intel workflow analytics reporting dashboard using AI for real-time system performance monitoring Analysed critical process dependencies and stakeholder data to improving the key strategic decision-making path
	<i>Optimized UV-curable resin to produce high-fidelity porous 3D-printed substrates with improved structural integrity</i>
R&D⁴ Intern (Under Prof. Abhijit) (May'24 – July'24)	<ul style="list-style-type: none"> Optimised UV-curable resin formulations with silica additives, enhancing 3D printed substrate strength & precision Conducted rheology, SEM, and wetting experiments to evaluate the structural integrity and material performance Calibrated 3D printing parameters for porous substrates, improving dimensional accuracy and mechanical stability

TECHNICAL PROJECTS & HACKATHONS PROJECTS

GENAI	Stakeholder Assist Chatbot	<i>Q&A chatbot leveraging LLMs and RAG to automate domain-specific query handling and information access.</i>
		<ul style="list-style-type: none"> Built a domain-specific Q & A chatbot using LangChain and OPENAI to handle multi-turn project queries efficiently Implemented a RAG pipeline using Pinecone & HuggingFace embeddings for accurate semantic search across data Heroku, Flask, integrating ConversationBufferMemory for multi-turn contextual responses, streamlining workflow
AI / ML	Market Trend Forecasting	<i>Stock Price Forecasting Using Long Short-Term Memory (LSTM) Neural Networks for Time-Series Analysis</i>
		<ul style="list-style-type: none"> Built the deep learning pipeline with multi-layer LSTM to forecast Companies prices from 10 years of historical data Engineered time-series features like 100-day moving averages and applied MinMaxScaler for the faster convergence Achieved an impressive R² score of 0.98 and visualized predictions, residuals, and trends using Matplotlib for analysis
Workflow Automation	RiskGuard Credit Card Risk Analysis	<i>Designed machine learning model that enables financial institutions to identify high-risk customers vulnerable to fraud</i>
		<ul style="list-style-type: none"> Pre-processed 1.8M records with SMOTE and PCA, resulting in 35% decrease in training time and 15% boost in recall Utilised feature engineering techniques: WoE and IV to optimise performance and reduce credit default rate by 21% Built credit scorecard with decision trees, achieving 0.5 Gini coefficient & improving high-risk identification by 40%
Workflow Automation	EventEase Power Automate	<i>Automated event workflow using Microsoft Forms → Power Automate → SharePoint → Power Apps → Certificates</i>
		<ul style="list-style-type: none"> Automated personalized confirmation emails in Power Automate, triggered instantly on Microsoft Form submission Built scheduled automation to update attendance via QR check-in and deliver personalized certificates post-event
Workflow Automation	Visionary Agent n8n AI Agent	<i>Developed a AI agent in n8n that functions as a virtual marketing team, automating end-to-end content creation</i>
		<ul style="list-style-type: none"> Built a AI marketing agent that automated creation of blogs, LinkedIn posts, videos, and image assets across channel Optimized workflows by 80% through integration of OpenAI, Runway, 11Labs, and G Suite for real-time automation

RELEVANT SKILLS AND COURSEWORK

Design Thinking Strategies for Road Safety	Machine and Deep Learning	Prompt Engineering	
Computational Techniques, POE	Data Structure and Algorithm*	Data Science: Analysis & Visualisation	
Skills	KPI & Metrics Analysis, CNNs, LSTM, NLP, RAG, Reinforcement Learning	Programming Languages	Python, C/C++
Technologies	MS-Excel, Pandas, NumPy, Matplotlib, Figma, Docker, Pinecone, Flask, Scikit-learn, Seaborn, BeautifulSoup, NLTK, LangChain, LangGraph, MongoDB, Keras, TensorFlow, Postman, Git, MATLAB, PowerBI, HuggingFace, n8n, CrewAI		

POSITIONS OF RESPONSIBILITY

Quality Management System Manager <i>Shaastra⁵</i> (June'24-June'25)	<ul style="list-style-type: none"> Orchestrated ISO 9001 Certification document compilation, encompassing task progress updates and action reports Applied the PDCA cycle (Plan-Do-Check-Act) to define and execute tasks, ensuring systematic and efficient processes Streamlined info-management by implementing efficient data systems, increasing data accessibility and accuracy
Publicity & Marketing Coordinator <i>Shaastra</i> (June'22 – May'24)	<ul style="list-style-type: none"> Identified optimal online platforms to effectively reach and engage targeted audiences for publicity of Shaastra'24 Planned and executed Spark⁶ quiz event in Patna to promote Shaastra, garnering participation from 500+ students Conducted risk analysis for Publicity team, gaining insights from all feedback on 20+ events via sentiment analysis
Manager <i>Entrepreneurship-Cell⁶</i> (June'23-May'24)	<ul style="list-style-type: none"> Managed media coverage and created reels for Speakers, boosting the E-Summit 2024⁷ participation across India Created launch videos, Theme concepts, and merchandise, enhancing engagement and branding for E-Summit 24 Ensured cohesive event ambience and aesthetics for E-Summit 2024, creating a memorable attendee experience

EXTRA-CURRICULARS

National Cadet Corps (NCC)	<ul style="list-style-type: none"> Earned NCC 'B' certificate (B grade) with the Sergeant Rank, demonstrating leadership, dedication, and discipline Independence Day in 2023, our platoon at IITM won esteemed 1st prize for the Best Marching among 8 platoons
Facilitator	<ul style="list-style-type: none"> Facilitated life skills & teamwork sessions for 100+ first-year students, fostering leadership, growth & collaboration
Teaching Assistant	<ul style="list-style-type: none"> Guided 12 mentees and collaborated with the faculty mentors to ensure smooth academic course communication
Content Creator	<ul style="list-style-type: none"> Directed & scripted short films at IITM TV, managing cinematography, production, post-production & storytelling

*: Ongoing course | ¹: Bihar School Examination Board | ²: Central Board of Secondary Education | ³:International Research Conference. | ⁴: Research and Development | ⁵: Student-run technical festival of IIT Madras | ⁶: School Outreach Program | ⁷: Student-run annual flagship entrepreneurship fest of IIT Madras | ⁸: The Official Media Body of IITM