

Mayank Malik

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Summary

B.Tech CSE student at UPES with strong interests in AI/ML, backend systems, and scalable web platforms. Combines technical development with leadership, operations, and stakeholder management through high-impact university initiatives. Experienced in building production-ready projects, leading teams of 100+ students, and managing execution across fast-paced technical and organizational environments.

Education

UPES Dehradun	Aug 2024 – 2028
Bachelor of Technology in Computer Science Engineering	CGPA: 8.51/10.0
Model School Sec-4, Rohtak	2024
Class XII (CBSE)	76.5%

Experience & Leadership

PR & Sponsorship Head, UPES IET Community

Feb 2026 – Present

- Leading PR, sponsorship outreach, and campaign execution for flagship technical events including **System Crash** (system design simulation) and **Carlsen Checkmate** (structured chess tournament).
- Secured **Unstop** as the “Powered By” sponsor for multiple events through direct outreach, partnership negotiation, and stakeholder management.
- Onboarded **Coffee Dose** as an official sponsor, improving brand visibility and sponsor engagement across online and offline activations.
- Built and currently lead a 13-member PR, Sponsorship, and Social Media Core team from the ground up, handling training, delegation, outreach operations, and execution quality control.

Associate PR & Sponsorship Head, UPES IET Community

Feb 2026 – Feb 2026

- Led end-to-end PR and outreach for **Campus X Corporate**, a placement and career-focused event, driving nearly 150 registrations through targeted digital and on-ground campaigns.
- Anchored the complete event live while managing audience engagement, stage flow, and real-time operational coordination.
- Promoted to PR & Sponsorship Head within one month based on execution quality, leadership, and outreach performance.

PR & Sponsorship Head, IEEE Computational Intelligence Society (CIS) Student Chapter

Apr 2026 – Present

- Leading public relations, sponsorship coordination, outreach strategy, and visibility campaigns for the IEEE CIS Student Chapter at UPES.
- Managing collaborations, event promotions, and communication workflows to strengthen chapter engagement and external presence.

Lead Enabler & Senior Mentor, Career and Services Department, UPES

Sep 2025 – Present

- Serving as the primary bridge between the Career and Services Department and approximately 100 AIML students under the SAMARTH Domain Internship Program.
- Conducted structured interviews and onboarded Enablers responsible for batch-level communication, mentorship, and internship execution.
- Mentoring first-year B.Tech students under the SRIJAN Social Internship Program while supervising execution quality, accountability, and onboarding workflows.
- Selected through direct faculty recommendation based on leadership, operational excellence, and student impact demonstrated across university initiatives.

Lead Change Maker, SRIJAN Social Internship Program

Jan 2025 – Aug 2025

- Managed operations across 3 student batches involving 100+ students and led a team of 5 Change Makers.
- Served as the primary liaison between students, NGO stakeholders, and the Career Services Department to ensure structured execution and issue resolution.
- Coordinated reporting, conflict resolution, inter-batch communication, and internship deliverables throughout the complete internship cycle.

- Oversaw communication and coordination with LD Charitable Trust NGO to ensure student participation, accountability, and timely completion of activities.

PR & Sponsorship Executive, Manthan – The Marketing Club of UPES

Feb 2025 – Present

- Served as the Lead Point of Contact for external teams during **Riwaayat-e-Prastav** at UURJA Fest.
- Managed hospitality, logistics, communication, and sponsor coordination for national-level participating teams.
- Secured external registrations and contributed to visibility campaigns across campus and digital platforms.
- Received strong positive feedback from participating teams for coordination quality and event management execution.

Class Representative, UPES

Aug 2024 – Dec 2025

- Elected Class Representative for combined B.Tech CSE batches, representing approximately 60 students across multiple academic semesters.
- Acted as the primary bridge between students and faculty, handling academic communication, scheduling concerns, and student feedback.
- Coordinated with Course Coordinators and professors to improve communication flow and classroom engagement.

Projects

Waffle Da! Official Ordering Platform

Python, Full-Stack

- Built and deployed a production-ready ordering platform for a live food brand featuring real-time order tracking, push notifications, and a complete admin dashboard.
- Implemented a dual-menu architecture with automatic stall activation during college events; platform has processed 100+ live orders without major operational issues.
- Delivered continuous feature iterations while maintaining system stability and UI consistency in a real-world deployment environment.

ML-Enhanced Dynamic MAC Protocol Optimization

Python, SimPy, Random Forest

- Built a continuous-time physics-aware Discrete Event Simulation framework using SimPy to model Slotted ALOHA and CSMA/CA MAC protocols under dynamic wireless network conditions.
- Engineered a Random Forest classification pipeline that dynamically selected the optimal MAC protocol in real time using collision probability, arrival rate, and node density metrics.
- Simulated RF propagation delay, spatial node distribution, bursty traffic generation, and Binary Exponential Backoff mechanisms to model real-world wireless communication behavior.
- Successfully prevented broadcast storm scenarios under high network load, reducing collision rates to approximately 0.29% during stress-test simulations involving 17,000+ packets/sec.

Delhi NCR AQI Classification Engine

Python, XGBoost, scikit-learn

- Developed a production-grade machine learning pipeline to classify Delhi NCR Air Quality Index into Good, Poor, and Bad health-risk categories using atmospheric and meteorological data.
- Improved model accuracy from approximately 57% to 98% by redesigning the data harmonization pipeline and transitioning from Random Forest to XGBoost with optimized hyperparameters.
- Built automated visualization and evaluation modules including confusion matrices, feature importance analysis, and publication-ready research graphs.
- Designed an interactive CLI inference engine capable of real-time AQI prediction, confidence scoring, and dynamic historical scenario testing.

Skills

Languages: Python, C, SQL, JavaScript

AI/ML: Machine Learning, Generative AI, NumPy, Pandas, Matplotlib, Prompt Engineering

Web & Tools: HTML, CSS, Git, GitHub, MS Excel

Core Concepts: Data Structures and Algorithms, Backend Systems, Stakeholder Management, Leadership, Public Speaking

Recognition

- Promoted to PR & Sponsorship Head within 1 month based on execution impact and outreach performance.
- Selected as Senior Mentor through direct faculty recommendation for leadership and operational excellence in SRIJAN.
- Elected Head Boy at Model School Rohtak, representing 1,160+ students across Nursery to Grade 12.
- Served as Class Representative for UPES B.Tech CSE batches, acting as the primary liaison between students and faculty.