

Ananya Mangal

B.Tech Information Technology | CGPA: 9.188

Delhi Technological University (Formerly Delhi College of Engineering)

5x Hackathon Winner, 1x Startup Scaled, SIH'24 National Winner

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EDUCATION

Qualification	Institute	Year	CGPA/%
B.Tech in Information Technology	Delhi Technological University	2023–27	9.188 /10
AISSCE (Class XII)	Glorious Public School, Rohini, Delhi	2023	92.6%
AISCE (Class X)	Heritage Experiential Learning School, Gurgaon	2021	99.0%

EXPERIENCE

- **Software Developer Intern, Technobile Systems Private Limited – "NxgSecure"** (June'25–Present)
 - Contributed to a **threat visualization dashboard** using **React.js** and **Chart.js**, for real-time monitoring of incidents.
 - Improved **UI responsiveness** and accessibility on NxgSecure's website, cutting load times by 25%.
 - Collaborated on cybersecurity tools improving incident detection time by 15% through optimized visualization.
- **Software Engineering Intern, Innomick Technologies** (October'24–January'25)
 - Developed a **WhatsApp-based AI chatbot** using **Twilio**, **SQL**, and **Python** to handle customer queries for a client.
 - Designed backend logic to automate over **80%** of interactions, reducing average response time by **60%**.
 - Integrated **SQL-based query routing** and complaint categorization for accurate tracking and streamlined resolution.
 - Enabled support for **1,000+** users through automated chat flows and streamlined escalation management.

ACADEMIC PROJECTS

- **ML-Driven Home Energy Usage Optimization System** [Live Demo](#) | [GitHub](#)
 - Built an **ML** and **MySQL** based system to optimize home energy usage through real-time data and analytics.
 - Achieved a **23%** cost reduction using ML-driven **appliance scheduling** and **87%** accurate **peak load prediction**.
 - Tracked live consumption across **100+** devices using a responsive **Next.js** dashboard with sub-300ms queries.
 - Deployed **FastAPI** backend on Render, **MySQL** on Railway, and frontend on Vercel with secure REST APIs.
- **Blockchain-Integrated Drug Supply Chain Optimization System** [Live Demo](#) | [GitHub](#)
 - Engineered a decentralized inventory system on **Polygon** Blockchain with smart contracts for secure drug tracking and automated payments among **20+** stakeholders in the supply chain reducing manual errors by **75%**.
 - Built a **Next.js** dashboard for real-time tracking of 100+ inventory items, orders, and deliveries, complemented by a predictive demand forecasting model ($R^2 = 0.957$) and **OSM** based live order tracking using **QR codes**.
- **FirePulse: AI Powered Video Streaming Platform** [Live Demo](#) | [GitHub](#)
 - Created a **React.js** dashboard for cross-platform content viewing, using RESTful APIs for aggregation.
 - Launched real-time synced Fire TV watch parties for up to **10** users using **Socket.io**, including **scene prediction**, **ML-based movie recommendations**, and personalized suggestions based on friends' viewing history.

ACADEMIC ACHIEVEMENTS AND AWARDS

- **Smart India Hackathon 2024 Winner** (PS : SIH 1627) — among **80K+** teams and **4.9 lakh** participants across India.
- Winner, **Hack4Change by Google** — Awarded **2.5 lakh** prize for legal aid software among **500+** competing teams.
- 1st Prize, Code Cubicle Hackathon at **Microsoft** — Built a women's safety route app, winning among 300+ teams.
- **Rank 1** at Code4Cause Hack with India NSUT — Developed NewsMate, an AI-driven civic awareness app.

SKILLS

- **Programming Languages:** C++ (**Data Structures and Algorithms**), Python, **JavaScript**, **HTML**, **CSS**, Solidity, SQL
- **Frameworks and Libraries:** React.js, Next.js, Node.js, Express.js, Flask, OpenCV, Tailwind CSS
- **Tools:** Git, GitHub, AWS, Firebase, MongoDB, Postman, Hardhat, Twilio, Vercel, Render, Figma
- **Concepts:** **Object-Oriented Design**, Operating Systems, DBMS, Machine Learning, **Full Stack Web Development**

EXTRACURRICULARS

- Technical Co-Head at **Society of Robotics DTU**, coordinated Techfest Robotics competition with **200+ participants**.
- Senior Council Member at **Debating Society** (Cognitive Minds), judged and participated in **11+** parliamentary debates.
- Volunteer, NSSS Foundation — **45+** hours of service at a senior care center and **25+** hours of teaching underprivileged children.