Ananya Mangal

B.Tech Information Technology | CGPA: 9.188   ananyamangal_23it016@dtu.ac.in
Delhi Technological University (Formerly Delhi College of Engineering)   GitHub   LinkedIn
5x Hackathon Winner, 1x Startup Scaled, SIH'24 National Winner   +91 8700825181

EDUCATION

Qualification	Institute	Year	CGPA/%
B.Tech in Information Technology	Delhi Technological University	2023–27	**9.188**
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%
  - Worked in a team of **12+** interns and junior developers to build and test internal tools for cybersecurity monitoring.
- **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

- **Smart Home Energy Management and 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:** Microsoft Azure, Git, GitHub, AWS, Firebase, MongoDB, Postman, Hardhat, Twilio, Vercel, Render, Figma
- **Concepts:** Machine Learning, Blockchain, Object-Oriented Programming, Operating Systems, DBMS

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.