

# NANDINI NEMA

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## EDUCATION

**Bachelor of Technology in Information Technology, Honors in DevOps** Aug 2023 – Jun 2027  
SVKM's Dwarkadas Jivanlal Sanghvi College of Engineering, Mumbai, India CGPA: 9.45/10.0  
**Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Computer Networks, Software Engineering, System Design, Database Systems, Object-Oriented Design

## WORK EXPERIENCE

**Indian Institute of Technology, Bombay** | Full-Stack Development Intern Jan 2025 – Jun 2025

- Developed scalable full-stack applications by building robust backend logic and creating responsive, user-friendly interfaces using modern JavaScript frameworks and best UI/UX practices.
- Optimized RESTful APIs and database queries in Unix/Linux environments, achieving 20% improvement in response times for enterprise-grade applications.
- Collaborated with cross-functional Scrum teams to deliver mission-critical solutions, applying agile methodologies and software design principles for production-ready systems.

**Plasmid Innovations** | Web Development Intern Aug 2024 – Oct 2024

- Designed and developed responsive enterprise web applications using modern JavaScript frameworks, improving user engagement by 35% and supporting 500+ concurrent users
- Applied object-oriented design patterns and software engineering practices to create maintainable, scalable codebases.

## TECHNICAL SKILLS

**Programming Languages:** JavaScript, Java, Python, C++, HTML5, CSS3, SQL, C  
**Libraries & Frameworks:** React.js, Next.js, Node.js, Express.js, Flask, Spring Boot basics, RESTful APIs  
**Cloud and DevOps:** AWS, Docker, Git, Unix/Linux, Distributed Systems, Microservices Architecture  
**Databases:** PostgreSQL, MongoDB, SQL Server, Database Design & Optimization

## CERTIFICATIONS

**Google AI Essentials Specialization – Google** Jul 2025  
**IBM Generative AI Engineer Professional Certificate – IBM** Jun 2025  
**Full Stack Web Developer – Udemy** Jun 2025

## PROJECTS

**Real-Time Explainable Credit Intelligence Platform** | Javascript, Next.js, FastAPI, XGBoost, SHAP GitHub

- Developed a real-time risk scoring engine aggregating 15+ financial sources to quantify credit exposure, achieving sub-30 second score updates for critical market events.
- Built a live analyst dashboard visualizing trends across 9+ risk categories, enabling stakeholders to identify and act on financial anomalies in real-time.
- Implemented Explainable AI to translate ML inferences into narratives, detailing calibrated risk impacts (-25 to +5 points) to support non-technical decision-making.

**Real-Time DDoS Detection & Mitigation Shield** | Typescript, Next.js, FastAPI, Kafka, Docker GitHub

- Architected a real-time Intrusion Detection System to mitigate DDoS attacks on core network infrastructure, including VPN gateways, via deep packet inspection of live TCP/IP traffic.
- Implemented an automated mitigation system using FastAPI and PostgreSQL, leveraging Scapy for network traffic debugging and enabling dynamic Firewall IP blacklisting with instant real-time alerts.

## AWARDS & ACHIEVEMENTS

- Semi-Finalist – Adobe India Hackathon 2025 (Adobe) Aug 2025
- 1st Place – Data 2 Knowledge 3.0 Hackathon (DJ Sanghvi College of Engineering) Mar 2025
- 2nd Place – Frontend Arena Hackathon (Rajiv Gandhi Institute of Technology) Mar 2025
- Top 6 All-India – Smart India Hackathon (National Level) Nov 2023

## LEADERSHIP & EXTRACURRICULAR ACTIVITIES

**DJ InIT.AI** | Chairperson & Full-Stack Web Development Mentor Oct 2025 - Present

- Mentored developers in Full-stack Web technologies, simplifying complex concepts into practical steps to support learning and innovation.
- Directed operations across 4+ departments, coordinating teams to ensure strict adherence to quality and timelines.

**Computer Society of India (DJCSI)** | Technical Writer & Marketing Associate Sept 2024 - Jun 2025

- Authored DJCSI's TechFlix and Protocol Newsletters, featuring 11+ interviews and 18+ articles on tech trends and career insights, demonstrating technical communication skills.
- Coordinated technical extracurricular activities (350+ participants) with focus on community building and networking.