

# NANDINI NEMA

Mumbai, Maharashtra | +91-9372523295 | nandininema07@gmail.com | LinkedIn | GitHub | Portfolio | Medium | Credly

## 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, System Design, Database Systems, Computer Networks, Object-Oriented Design

## WORK EXPERIENCE

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

- Architected scalable and fault-tolerant distributed systems in a large computing environment, serving over 10,000 users.
- Optimized RESTful APIs and database queries in a Unix/Linux environment, boosting application response time by 20% for large-scale systems.
- Collaborated with a cross-functional engineering team to deliver mission-critical solutions, applying software design principles to enhance system scalability.

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

- Designed responsive user interfaces improving engagement by 35% and supporting 500+ concurrent users, with customer obsession focus.
- Created scalable solutions and technical documentation for multi-tiered systems collaboration.

## TECHNICAL SKILLS

**Programming Languages:** C/C++, Python, Java, JavaScript, HTML5, CSS3, SQL, Perl  
**Libraries & Frameworks:** ReactJS, Express.js, React Flow, MongoDB, Node.js, React Native, Web3, Flask, LangChain, NumPy, Pandas, TensorFlow, PyTorch, Matplotlib, BeautifulSoup, Scikit-Learn, TailwindCSS, Streamlit, Bootstrap  
**Systems & Tools:** Distributed Systems, Fault-Tolerance, Scalability, Multi-tiered Systems, RESTful APIs, Relational Databases (PostgreSQL), AWS, Docker, Tableau, Git, Unix/Linux, Data Structures and Algorithms, Unity

## CERTIFICATIONS

**Introduction to Augmented Reality and ARCore – Google** Aug 2025  
**Google AI Essentials Specialization – Google** Jul 2025  
**IBM Generative AI Engineer Professional Certificate – IBM** Jun 2025

## PROJECTS

**AgentFlow – Autonomous AI Agent Marketplace** | LangChain, Google Gemini, WebSockets, React Flow GitHub

- Architected a distributed, event-driven platform with an async FastAPI backend and WebSockets, enabling autonomous agents to execute long-running, proactive tasks.
- Developed 10+ specialized agents (e.g., AI Research Assistant) using LangChain and Gemini, engineering a shared RAG pipeline with persistent memory for high contextual accuracy.
- Built a no-code workflow builder with React Flow, reducing manual task execution by 40% by allowing users to visually chain and automate agent workflows.

**Context-Aware PDF Document Intelligence System** | LayoutLMv3, PyTorch, Docker, K-Means Clustering GitHub

- Engineered a hybrid document analysis engine combining a deterministic parser with LayoutLMv3 to extract hierarchical data from complex and scanned PDFs at high speed.
- Implemented a semantic ranking pipeline using BERT embeddings to analyze user intent and prioritize document sections by relevance, boosting information retrieval accuracy.
- Containerized the offline application with Docker, achieving high-throughput processing (<10s for 50 pages) and ensuring scalable, portable deployment.

## AWARDS & ACHIEVEMENTS

- Semi-Finalist – Adobe India Hackathon (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

**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 computer science-related extracurricular activities (Codeshastra XI: 250+ participants, UI/UX Hackathon: 80+ participants) with focus on community building and networking.