
EDUCATION**B.Tech. in Information Technology**, D. J. Sanghvi College of Engineering**2021-2025**

EXPERIENCE**Software Engineer at EY** (*Official Designation: Senior Analyst Tech*)**July 2025 - Present**

- Built and shipped an internal AI-powered testing platform using Python, Flask, PostgreSQL, React, and LangChain, reducing client testing turnaround by 70% (40 to 12 days) across a portfolio of public, private, and IPO-bound clients.
- Engineered a RAG-based backend pipeline using LangChain and M365 Copilot APIs to process unstructured client evidence, generate source-grounded test documentation, and identify code/script logic deviations from defined SOPs.
- Collaborated with engagement teams across EY Sweden and EY Malaysia to deliver cross-border testing solutions, coordinating technical requirements, implementation efforts, and software deliverables across multiple time zones.

SWE Intern at Mobiuso**January 2025 – July 2025**

- Architected and developed a full-scale HRM system from scratch as the sole developer, designed a modular architecture to implement comprehensive HR functionalities with seamless integration across multiple modules.
- Implemented HRM using Flask, PostgreSQL, and JWT-based authentication for the backend, alongside a responsive frontend built with React and Tailwind CSS, ensuring scalability and efficient data handling.
- Worked solo on Twilio to Zoom migration on one of the main project Buzz Skyscape (React).
- Built a LangChain pipeline to extract structured SOAP notes from doctor-patient prescription documents.

SDE Intern at ParkIt - Smart Parking Solutions**June 2023 – August 2023**

- Modernized legacy mobile and web applications through framework upgrades and frontend re-engineering, improving usability, maintainability, and user experience.
- Owned end-to-end iOS operations, including application deployment, release management, maintenance, troubleshooting and production support.
- Interacted with clients to understand their unique requirements, customizing software applications, accordingly, leading to increase in client retention and revenue growth.

PROJECTS**Mental Health Assistant** | (*Application+ ML model*) | *Project duration - 2 years* | **Research Paper Published**

- Developed a Flutter-based mental health application integrated with a machine learning recommendation engine that delivered personalized resources and activity recommendations based on user behaviour.
- Tech Stack: Flutter, Firebase, Machine Learning Model.

Contextually Aware Anomaly Detection in Surveillance System | *Project duration - 1 year* | **Research Paper submitted**

- Designed a context-driven surveillance pipeline integrating ML-based models and backend for real-time firearm anomaly detection.
- JSON-based data flow, and contextual classification; maintained backend for efficient log storage and retrieval.
- Tech Stack: Python, Flask, Firebase, REST APIs, Roboflow, OpenCV, NumPy, JSON.

AI-Personalized Collaborative Study Platform | **National Hackathon Winner** | (*Application+ ML model*)

- Developed a Flutter-based collaborative learning platform with Firebase backend and Vertex AI integration for AI-driven study group recommendations.
- Personalized AI-Powered Study Groups: Tailoring study sessions to individual learning styles, ensuring a customized approach for every student.
- Tech Stack: Flutter, Firebase, Vertex AI, Python, Flask.

SKILLS

- **Technical Skills:** C, C++, Java, Python, Dart, JavaScript, RESTful APIs, SQL, Authentication (JWT, OAuth 2.0), bcrypt Password Hashing.
- **Frameworks & Technologies:** Node.js, Express.js, Flask, Django, React, Flutter, HTML, CSS, Tailwind CSS
- **AI / ML:** LLMs, Retrieval-Augmented Generation (RAG), Prompt Engineering, LangChain, Agentic Workflows, Power Automate, Scikit-learn, Pandas, NumPy
- **Databases:** MySQL, MongoDB, PostgreSQL, Redis
- **Tools/IDE:** Git, GitHub, GitLab, Docker, Android Studio, Jira, AWS (EC2, S3), Postman, Swagger, Google Cloud Console, Firebase
- **Core CS Fundamentals:** Data Structures & Algorithms, Object-Oriented Programming (OOP), Operating Systems, Computer Networks, Database Management Systems (DBMS), System Design, Design Patterns
- **Soft Skills:** Leadership, Teamwork, Adaptability, Strategic Problem-Solving, Communication, Ownership

ACHIEVEMENTS

- **Secured 1st Place at Unscript Rookies Hackathon** for designing and developing a full-stack surplus food management solution to streamline inventory tracking and food redistribution across NGOs within few mile radius.
- **Problem Statement Winner and overall Secured 2nd Place at VCET Hackathon** with 60+ teams participating from all over India. Over 36 hours hackathon that stretched into 40+.
- **IEEE Brainwaves Chairperson (2024)** - Led a team of passionate individuals in organizing and executing technical workshops, hackathons, and events focused on emerging technologies and innovation.
- **Published Research Paper in Educational Administration:** Theory and Practice (E-ISSN: 2148-2403, P-ISSN: 1300-4832)
- **Built and maintained a college application (DJCSI)** as part of the application development committee, reaching 15,000+ downloads across platforms (app store and play store).