SANJAI M S

Computer Science Engineer & Innovator

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ABOUT ME

Versatile Computer Science Engineering student with a strong focus on AI integration, backend development, and full-stack solutions. Experienced in building practical web applications, intelligent surveillance systems, and automated pipelines. Proven leadership as the President of the Game Development Cell, driving technical events and collaborative projects.

EDUCATION

KPR Institute of Engineering and Technology, India
Bachelor of Engineering - Computer Science and Engineering
Expected Graduation: 2028
Roll No: 24CS181

SKILLS

Programming Languages: Java, Python, HTML/CSS, SQLite3

Backend & API Development: Flask, Supabase, Firebase, Render

AI & Machine Learning: TensorFlow, YOLO, OpenCV, YAMNet, LLM Integration (Gemini, ChatGPT, Llama 3)

DevOps & Cloud: Docker, Kubernetes

Leadership & Collaboration: President of Game Development Cell, Member of Prototype Club and Software Development Club

PROFESSIONAL EXPERIENCE & LEADERSHIP

Starlit Steel Building Solutions Intern Completed by **Jan 2026**

Gained industry exposure and applied technical concepts within a professional engineering and building solutions environment.
Completed internship tasks and demo projects (internship repository) to validate learning outcomes.

KPRIET GAME DEVELOPMENT CELL **PRESIDENT**

Lead the club's initiatives, driving engagement and skill-building in game development.
Co-hosted the "Game Arcade System" event (Feb 2026), managing logistics, team coordination, and technical execution.

KPRIET TECHNICAL WORKSHOPS **ORGANIZER**

Organized a Computer Organization and Architecture (COA) workshop, preparing educational materials, MCQs, and promotional posters.

PROJECTS

Quite Scan / Noise Sense - Intelligent Surveillance System
Tech Stack: Python, HTML, YAMNet, AI Models
Developing an intelligent, sound-activated surveillance system with dedicated backend (Noise_sense) and frontend UI (quiet-scan).
Utilized YAMNet for advanced audio event detection to trigger security protocols based on noise anomalies.

Automated Billing System
Tech Stack: Python, HTML
Architected a complete billing solution by developing a custom HTML billing UI (Billing repo) and integrating it with a Python-based processing engine (Automated-billing-software-backend).

Smart India Hackathon (SIH) Project
Tech Stack : Python
Developed and collaborated on a targeted Python solution (SIH_project) for the national hackathon, successfully passing internal college reviews.

AI & Computer Vision Implementations
Tech Stack: Python, OpenCV, Machine Learning

Face Recognition: Built a Python-based facial recognition system (face_reg) exploring biometric identification.

Smart Parking Demo: Developed a parking detection automation script (parking-demo) applying computer vision concepts to real-world infrastructure issues.

Conversational AI: Created a private message-based chatbot (message_based_chatbot) leveraging Python for automated user interaction.

Visitor and Logistics Management System
Tech Stack : Python, Flask, Supabase
Architected and deployed a full-stack web application to manage visitor logs and logistical data.
Integrated a Supabase backend for robust database management and deployed the application for live access.

Self-Healing Software / Automated Debugging Agent
Tech Stack : Python, AI APIs, LLMs
Designing an automated system that actively monitors executing programs.
Leveraging AI APIs to identify, analyze, and automatically patch code errors in real-time.