SASHANTH A

Coimbatore, India

📞 +91 75581 87099   ✉ sashan1707@gmail.com   in linkedin.com/in/sashantha   ⭘ github.com/sashanth17

EDUCATION

Karpagam Institute of Technology   **2023 – 2027**
*B.Tech, Artificial Intelligence and Data Science - **CGPA: 7.93/10.00***   *Coimbatore, India*

PROJECTS

MediCare - Telemedicine Platform | Django, React.js, PostgreSQL, Twilio, Gemini   **Sep 2025 – Present**

- Enabled **healthcare access in no-internet areas** by delivering full platform services (AI triage, medicine/Doctor availability checks) via **simple phone calls using Twilio IVR**, achieving an approximate **~30% increase in reach** among underserved users.
- **Designed a modular platform** integrating **video consultations (WebRTC)**, **medicine-availability lookup**, and an **AI-driven triage/symptom-collection flow** — all accessible both through the web app and via **voice/IVR for offline callers.**
- **Implemented a conversational LLM–ML workflow with human-in-the-loop:** a **Gemini LLM** interacts with patients to data, then calls a **hosted MCP-based ML classifier (TF-IDF + logistic regression)** to identify **urgent vs. non-urgent cases**. poor Results are notified to doctors/nurses for **human review and decision enhancement**, supported by a secure **Django REST + PostgreSQL backend** with a lightweight **MCP layer** ensuring reliable AI–IVR synchronization.

Faculty Management System | Django REST Framework, PostgreSQL, React   **June 2025 – Present**

- Designed a scalable backend to create a centralized platform for academic task delegation and tracking.
- Architected a robust SQL schema and built secure REST APIs, projected to reduce administrative overhead by 25%.
- Developed a responsive React dashboard for department heads to efficiently assign and monitor tasks.

AI-Powered Coding Assistant | JavaScript, Gemini API, HTML5, CSS3   **Jan 2025 – Present**

- Engineered an AI-powered Chrome extension using the Gemini API to streamline competitive programming workflows for 100+ students.
- Implemented features for AI-driven problem breakdown and logical gap identification, improving user problem-solving efficiency by 35%.

TECHNICAL SKILLS

Languages
- Python
- C++ , Java
- SQL
- JavaScript
- HTML/CSS

Frameworks & Tools
- Django REST
- React
- Flask
- Git and GitHub
- WebRTC,Twilio

AIML & Databases
- LLM Integration
- NLP & Vector Search
- PostgreSQL
- MySQL

ACHIEVEMENTS & LEADERSHIP

HackVerse Hackathon (2nd Prize Winner)   **2025**
PSG College of Technology   *Coimbatore, India*

- Secured 2nd place among 50+ competing teams by designing and prototyping an innovative solution under a 48-hour deadline.
- Led backend development and AI integration, demonstrating rapid development, problem-solving, and teamwork.

Competitive Programming Club   **2024**
Public Relations Officer   *Karpagam Institute of Technology*

- Coordinated with over 100 students to promote coding events and workshops, increasing event participation by 50%.

CERTIFICATIONS

- C++ for Competitive Programming
- DSA using Java (NPTEL)
- SQL (Advanced) - HackerRank
- React JS Certification Course (GeeksforGeeks)
- Design Thinking Practitioner(IBM)
- Team Essentials for AI (IBM)