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Sathyaseelan K

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Summary

B.Tech Information Technology student passionate about Artificial Intelligence and Data Science. Experienced in developing AI-based applications like facial recognition attendance and gesture calculators using Python, OpenCV, and MySQL. Strong in backend systems, cloud deployment, and real-world AI problem-solving.

Education

B.Tech in Information Technology *Aug 2023 – Present*
M.Kumarasamy College of Engineering, Karur
CGPA: 7.9 (Current)

Higher Secondary Certificate (HSC) *Jun 2022 – Jun 2023*
Chelammal Vidhyaashram, Trichy
Grade: 86%

Skills

- **Languages:** Python, Java, HTML, CSS, SQL
- **Frameworks & Libraries:** Flask, NumPy, Pandas, Matplotlib, OpenCV, MediaPipe
- **AI/ML:** DeepFace, FaceNet, Computer Vision, Data Analytics
- **Databases:** MySQL, SQLite
- **Tools & Cloud:** Git, XAMPP, Google Cloud
- **Soft Skills:** Teamwork, Problem-solving, Analytical Thinking

Projects

Re:Vive – AI, NLP, and AR Cultural Discovery Platform *Jun 2025 – Present*
- Built an AI-driven cultural discovery platform integrating storytelling, NLP, and AR experiences.
- Used Flask, Google Cloud APIs, and multilingual dataset integration for interactive cultural content.

AI Smart Attendance System (Face Recognition) *Mar 2025 – Apr 2025*
- Developed a hybrid face recognition attendance system using DeepFace, Flask, and MySQL.
- Integrated Google Cloud Vision API for improved facial verification accuracy.

Learning Management System (LMS) *Jan 2025*
- Built a role-based LMS for students and administrators with course, assignment, and attendance management.
- Used Flask, HTML, CSS, and SQLite for backend and data handling.

Hand Gesture Calculator *Aug 2024 – Sep 2024*
- Designed a Python-based calculator using OpenCV, MediaPipe, and pyttsx3 for gesture-based interaction.
- Added voice feedback for real-time calculation results.

Certifications

- **Google Cloud SkillBoost – Foundations of Cloud (2025)**
- **Coursera – Cybersecurity for Everyone (2025)**
- **Coursera – Introduction to Networking (NVIDIA, 2025)**
- **NPTEL – Industry 4.0 and Industrial IoT (2024)**
- **NPTEL – Introduction to Internet of Things (2024)**
- **Oracle Certified:** Data Science Professional, Cloud Database Service (2025)

Areas of Interest

Artificial Intelligence, Data Analytics, Cloud Computing, NLP, and Computer Vision.

Languages Known

Tamil (Native), English (Fluent)