

Sathyaseelan K

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Summary

Penultimate-year B.Tech Information Technology student with strong fundamentals in Data Structures and Algorithms and clean coding practices. Experienced in building real-world, cloud-native applications, with keen interests in Artificial Intelligence, Machine Learning, and Data Science.

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, SQL, C
- **Databases:** MySQL, MongoDB
- **Frameworks & Libraries:** Flask, NumPy, Pandas, Matplotlib, Scikit-learn
- **Cloud & Tools:** MongoDB Atlas, MongoDB Compass, Google Cloud, Git, XAMPP, VS Code
- **AI/ML:** Computer Vision, DeepFace, Data Analytics
- **APIs & Integrations:** REST APIs, Google Cloud APIs

Projects

Megam – AI-Powered Global Air Quality Monitoring Platform 🌐 📄

Nov 2025 – Present

- Designed and developed a large-scale global air quality monitoring platform integrating data from multiple authoritative sources including IQAir, OpenAQ, WAQI, NASA satellite datasets, and weather APIs.
- Implemented machine learning-based pollution forecasting with interactive, global-scale data visualization for real-time insights.

MotorMony – AI-Based Car Recommendation System 🌐 📄

Apr 2025

- Built an intelligent car recommendation system based on user preferences, budget, and feature constraints.
- Applied similarity-based ranking and machine learning techniques to enhance recommendation relevance and decision accuracy.

Re:Vive – AI, NLP, and AR Cultural Discovery Platform 🌐

Jun 2025 – Present

- Developed an AI-driven cultural discovery platform combining immersive storytelling, NLP-based content generation, and augmented reality experiences.
- Implemented Flask-based backend services integrated with cloud APIs and multilingual cultural datasets.

AI Smart Attendance System (Face Recognition) 🌐 📄

Mar 2025 – Apr 2025

- Developed a hybrid face recognition-based attendance system using DeepFace, Flask, and MySQL.
- Integrated Google Cloud Vision API to improve facial detection robustness and verification accuracy.

Certifications

- **Oracle Certified – Data Science Professional** (2025)
- **Oracle Cloud Database Services** (2025)
- **Google Cloud Skill Boost – Foundations of Cloud** (2025)
- **NPTEL – Industry 4.0 and Industrial IoT** (2024)
- **NPTEL – Introduction to Internet of Things** (2024)

Areas of Interest

Artificial Intelligence and Machine Learning, Data Science, Database Management Systems, Computer Networking