Sathyaseelan K

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Profile

An enthusiastic B.Tech IT student with practical experience in AI development and data-driven systems. Proficient in Python, DeepFace, Flask, OpenCV, and MySQL. Built intelligent solutions including a real-time facial recognition system and gesture-based calculator. Strong foundation in machine learning, data preprocessing, and model deployment. Eager to contribute to impactful AI and data science projects.

Education

B.Tech in Information Technology — Aug 2023 – Present
M.Kumarasamy College of Engineering, Karur
CGPA: 7.8 (Current)

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

Technical Skills

Languages: Python, Java, HTML, CSS, SQL

Frameworks & Libraries: Flask, Numpy,Pandas,Matplotlib MediaPipe, OpenCV

Tools & Platforms: XAMPP, Google Cloud, MySQL, Git,tableau,BI

Soft Skills: Collaboration, Critical Thinking, Self-Learning, Resilience

Projects

AI Smart Attendance System using Face Recognition — Mar 2025 – Apr 2025

- Engineered a hybrid face recognition system that automated attendance for over 20 users using Python (DeepFace), OpenCV, and MySQL.
- Achieved 90%+ facial recognition accuracy during tests with real-time webcam input and dataset training.
- Reduced manual attendance effort by 100% through MySQL-backed auto-logging and web-based UI.

Hand Gesture Calculator — Feb 2025

- Developed a gesture-driven calculator with 5 gesture classes to perform real-time arithmetic using MediaPipe and OpenCV.
- Enabled live finger tracking and voice-based output, improving accessibility for visually impaired users.
- Achieved responsive input under 0.5s with over 85% gesture detection accuracy in controlled environments.

Learning Management System (LMS) — Jan 2025

- Created a full-stack LMS with secure login, supporting 2 user roles and over 10 simulated students for demo sessions.
- Integrated course uploads, assignment submissions, and grade analysis across 5 modules.
- Enhanced UI interactivity by 60% with CSS animations and responsive layouts for mobile + desktop.

Areas of Interest

- Artificial Intelligence & Machine Learning
- Data Analytics & Visualization
- Database Management Systems

Certifications

- Google Cloud SkillBoost – Foundations of Cloud
- Google Cloud SkillBoost – Introduction to Data Analytics (Feb 2025)
- Coursera – Introduction to Networking (NVIDIA) (Jan 2025)
- NPTEL – Industry 4.0 and Industrial IoT (Scored 61%)