

LOKESH JAYANTH S

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EDUCATION

Coimbatore Institute of Technology, Coimbatore,
M.Sc. Data Science (5-year Integrated)
• CGPA: 7.15 (up to 5th Semester)

2023 – Present

CK School Of Practical Knowledge, Cuddalore,
Higher Secondary Certificate
• Percentage: 75%

2022 – 2023

SKILLS

Programming & Frameworks

Python, Flask, Bootstrap

Libraries

Numpy, Pandas, Scikit-learn

Databases

MySQL, MongoDB

Tools & Platforms

Git, Power BI, MS Excel

Area of Interest

Machine Learning, Data Analysis & Visualization, Artificial Intelligence

Other Technical Skills

Web Development, Dashboard Designing

PROJECTS

EyeGuardian AI – Enabled Emergency Detection and Assistance System

Tools– Python, Flask, YOLOv8n, OpenCV, Firebase, Audio Processing, Telegram Bot API, Geolocation API

- Built a real-time detection system that analyzes live video and audio streams to identify fire, smoke, and emergency sounds using a fine-tuned YOLOv8n model and audio feature extraction.
- Designed a dual-server setup where a Flask app manages the UI while a dedicated detection API handles frame processing and computes an emergency score based on fire/smoke, people count, and nearby vehicles.
- Integrated automatic alerting through email/Telegram with instant location sharing, notifying nearby police, hospitals, or emergency contacts, and logged all incidents to Firebase for easy tracking and history.

GlowGuard- AI-Based Skincare Analysis & Recommendation System

Tools & Technologies– Python, Streamlit, Machine Learning, FastAPI, OpenCV, API Integration

- Developed a skincare analysis that processes uploaded selfies to identify skin type and visible skin characteristics using basic computer-vision techniques.
- Combined these image insights with real-time environmental data—UV index, humidity, air quality—and lifestyle inputs to build a more complete skin health profile.
- Developed a responsive multi-screen interface enabling users to upload images, provide details, view results, and revisit their historical evaluations.

Tri-Biometrix- Intelligent Multimodal Biometric Security System

Tools & Technologies– Python, Flask, TensorFlow/Keras, OpenCV, MediaPipe, MFCC, CNN, Streamlit

- Integrated three biometric inputs — face embeddings, voice features, and gesture landmarks — to create a stronger and more reliable authentication process.
- Designed a sequential verification pipeline where each biometric is validated independently, reducing false matches and improving overall security.
- Built a web interface that collects data, triggers the model checks, and provides real-time authentication feedback. make this in two point

CERTIFICATE

- Certificate of Merit – CIT Spark Grant 2025 Finalist, Coimbatore Institute of Technology, 2025
- Python & Django Framework + HTML5 Stack Complete Course – Udemy, issued June 2025
- Certificate of Merit – KRISHNECS 2K24, Vishwa Focus (1st Place), Sri Krishna College of Engineering and Technology
- Certificate For AXIOS 2024, PSG College of Technology, Department of Applied Mathematics and Computational Sciences
- Certificate of Completion for Fundamental AI Concepts, Microsoft, issued August 8, 2024

LEADERSHIP & MANAGEMENT ROLES

Photo Club, Executive Director

2025 – Present

- Directed strategic planning, operational oversight, and event coordination, resulting in a 30% increase in member engagement and the successful execution of more than 10 events

Rotaract Club of CIT, Event Management

2024 – 2025

- Coordinated and executed events with effective planning and teamwork.