

SOWMYA MAHANTHI

B.Tech – Artificial Intelligence & Data Science

KIET for Women, Kakinada

Aspiring Software Developer | Python | Full Stack | AI/ML

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<https://leetcode.com/u/sowmya4554sp/>

PROFESSIONAL SUMMARY

Aspiring Software Engineer skilled in Python, Full Stack Development, and AI/ML with hands-on experience in developing scalable web applications and real-time intelligent systems. Strong problem-solving abilities demonstrated through consistent LeetCode practice and project development. Passionate about learning modern technologies, solving real-world problems, and contributing to innovative software solutions.

SKILLS

- **Languages:** Python (Primary), JavaScript
- **Frontend:** HTML, CSS, React.js
- **Backend:** Node.js, Express.js, Flask, REST APIs
- **Databases:** MongoDB, MySQL
- **Machine Learning:** TensorFlow, YOLO, Pandas, NumPy
- **Tools & Platforms:** Git, GitHub, Postman, VS Code, Render
- **Core Concepts:** Object-Oriented Programming (OOP), Problem Solving, Debugging, Team Collaboration
- **Soft Skills:** Communication, Presentation, Adaptability, Quick Learning

PROJECTS

Trackify Finance – Expense Management Application

- Developed a full-stack MERN application with JWT authentication and secure REST APIs.
- Designed backend services for transaction processing, validation, and error handling.
- Developed RESTful APIs using Node.js and integrated backend logic with frontend.
- Deployed frontend application using Render.
- **GitHub:** https://github.com/Sowmya1431/finance_tracker

Gesture Controlled Media Player

- Processed real-time video data using OpenCV and implemented gesture classification logic in Python.
- Implemented hand tracking, gesture classification, and action mapping pipeline.
- Optimized detection accuracy and reduced latency through preprocessing techniques.
- **GitHub:** https://github.com/Sowmya1431/gesture_controlled_media_player_desktop

Crowd Count Video Analytics

- Performed data processing and model inference using YOLO for real-time analytics.
- Built React dashboard for live visualization and analytics.
- Improved system reliability by debugging and resolving integration issues.
- **GitHub:** https://github.com/Sowmya1431/Crowd_count_video_analytics

INTERNSHIPS

Infosys Springboard – Python Full Stack Intern

Oct–Dec 2025

- Developed REST APIs using Flask and integrated React frontend components.
- Performed testing, debugging, and API validation.
- Followed Git-based version control and documentation practices.

Edunet Foundation – Applied AI Intern

2024–2025

- Worked on data preprocessing, model training, and evaluation.
- Assisted in integrating machine learning workflows into applications.

EDUCATION

B.Tech – Artificial Intelligence & Data Science

2022–2026

KIET for Women, Kakinada

Percentage: 75%

Intermediate – MPC

2020–2022

Percentage: 92%

SSC

2020

Percentage: 85%

CERTIFICATIONS

- Python Foundation – Infosys Springboard
- Machine Learning Foundations – IIIT
- MERN Stack – Infosys Springboard