

Madhumitha K

Erode, Tamil Nadu | Email : mithamadhu8785@gmail.com | +91 84385 77395

Links: LinkedIn | Github | Leetcode

Professional Summary

Versatile and detail-oriented Full Stack Developer and Machine Learning Engineer with hands-on experience in building scalable, responsive web applications and deploying intelligent ML models. Adept at integrating frontend and backend technologies with data-driven solutions.

Technical Skills

- Languages: Python, JavaScript, TypeScript, SQL, Java
- Frontend: React.js, Next.js, HTML5, CSS3, Tailwind CSS, Redux
- Backend: Node.js, Express, Django, Flask, REST APIs, MEAN-Stack
- ML/AI: TensorFlow, PyTorch, Scikit-learn, OpenCV, Pandas, NumPy
- Databases: MongoDB, PostgreSQL, MySQL, Firebase
- Tools & DevOps: Git, Docker, AWS, Azure, Linux, CI/CD, Jupyter Notebooks
- Others: GraphQL, FastAPI, Rest AP

Professional Experience

Full Stack Developer Intern | Kalv – UK

Dec 2024 – Present

- Built responsive, mobile-friendly UI layouts using HTML5, CSS3, Tailwind CSS, Flexbox, and Grid.
- Developed interactive React.js components and integrated them with backend REST APIs

Machine Learning Engineer Intern | Cube AI Solutions

May 2024 – July 2024

- Built and deployed ML-powered systems, including hospital doctor availability detection and YOLOv5-based security monitoring.
- Processed healthcare datasets with Pandas and deployed models as scalable REST APIs using Flask and Docker

Projects

Image Classifier

- Designed and trained a CNN for custom image classification tasks.
- Achieved 92% accuracy and deployed via FastAPI for public API access

Voice-based Music Recommendation System

- Built an intelligent music recommendation system operating via voice interaction and NLP-based mood detection (similar to Alexa).
- when the similar person voice is recognized, based on the person mood it recommend the song from youtube and similar sites

Text-to-Image Generator

- Built an intelligent music recommendation system operating via voice interaction and NLP-based mood detection (similar to Alexa).
- when the similar person voice is recognized, based on the person mood it recommend the song from youtube and similar sites

Building bingo game using cursor ai

- A responsive, accessible UI using semantic HTML, modern CSS, and JavaScript—lightweight and framework-free
- Developed in Cursor with GPT-5, focusing on scalable, maintainable code and planned features like multi-card support and sound effects.

Automatic time table

- Smart India Hackathon (SIH) 2025: Designed and implemented an AI/ML-driven platform to analyze real-time data, detect anomalies, and generate alerts for enhanced decision-making. Our project selected in Top 50 out of 300 projects for SIH

Youtube Link: <https://youtu.be/lexotDdNTqY?si=ShCV19snhkY7SB4u>

Education

Bachelor of Engineering (B.E.) in Computer Science (Artificial Intelligence & Machine Learning)

Dr. Mahalingam College of Engineering and Technology, Pollachi, Tamil Nadu

2023 – 2027

CGPA: 8.3/ 10 (semester-5)

HSC | Adharsh Vidhayalaya Matric School, Bhavani| Percentage(89%)

SSLC | Adharsh Vidhayalaya Matric School, Bhavani| Percentage(84%)

Certifications

- Full Stack Web Development – Coursera / Udemy
 - Python for Data Science and Machine Learning – Udemy
 - Python for Beginners – Eureka.
 - Introduction to Machine Learning –Great Learning.
 - Cloud DevOps Workshop – Skill Nation
-

Achievements

- 3rd Prize Winner in Website Development (Frontend role) Competition at Dr. Mahalingam College of Engineering and Technology (2025)
 - 3rd Prize by built a dynamic, responsive stock market web application using HTML, CSS, Python (backend), and MongoDB within a 2-hour timed challenge.
-

Sports

- 1st Prize Winner (2 times) in Anna University Chess Zoom 10 Event
- Secured 1st place in inter-college technical competitions organized by Anna University, showcasing strong problem-solving, web development, and coding skills.