

Amrithesh S Menon

amrithesh23@gmail.com — 9961120659 — LinkedIn: amrithesh-s-memon

Professional Summary

Passionate software developer with expertise in Machine Learning, Deep Learning, and NLP. Skilled in Python, C, C++, Java with experience in web and app development. Strong analytical and problem-solving skills with a focus on efficiency and scalability. Proactive, detail-oriented, and an excellent communicator.

Education

Vellore Institute of Technology – Chennai

B.Tech Computer Science (AI & ML) — CGPA: 9.10 — Expected 2027

Bhavan's Vidya Mandir, Girinagar

CBSE 12th (2023) — Computer Science with Math

Skills

- **Programming:** Java, Python, JavaScript, C++, C, Swift, Kotlin, SQL, NoSQL
- **Tools:** Git, AWS, Firebase, Spring Boot, Flutter, React.js, Node.js
- **AI & ML:** TensorFlow, PyTorch, OpenCV, YOLO, BERT, NLP, Model Optimization
- **Computer Vision:** Object Detection, Image Processing, Lane Tracking
- **Software Development:** Scalable App Development, API Design, Agile Methodologies

Projects & Research

ChatBot using Rasa (Python, Rasa, TensorFlow, Flask, Docker)

Developed an AI-driven chatbot with 90%+ intent recognition accuracy. Integrated WebSocket API for real-time responses and deployed using Docker.

Movie Recommendation System (Python, Scikit-learn, Flask)

Built a recommendation engine using TF-IDF vectorization and cosine similarity. Designed a Flask-based UI and achieved 85% accuracy in personalized suggestions.

Advanced Driver Assistance System (ADAS) (OpenCV, TensorFlow, YOLO)

Implemented YOLO-based object detection for lane tracking and hazard detection, reducing false detections by 30%.

Music-Enabled Chat App (In Progress) (React.js, Firebase, WebRTC)

Developing a chat app that enables synchronized music streaming, integrating Spotify API and WebRTC for seamless communication.

Driver Drowsiness Detection (Research)

Building an AI-powered fatigue detection system for drivers using deep learning-based facial analysis.

Competitions & Achievements

- Top 5 in Pitch-A-Thon, an entrepreneurial pitch competition.
- Participated in CookOff's 2024, a competitive coding hackathon.
- Competed in RAScade, an AI & robotics-focused hackathon.

Certifications

Advanced Driver Assistance Systems (ADAS) – Udemy

Completed coursework on deep learning-based ADAS solutions.

Languages

English (C2) — Hindi (C2) — Malayalam (B2) — Spanish (B1) — German (A2)