

SUMIT MALI

Virar, Maharashtra

+91-9511759204 sumitmali2003@gmail.com LinkedIn GitHub Portfolio

Aspiring Full Stack Developer with hands-on experience building scalable MERN stack applications using MongoDB, Express.js, React.js, and Node.js. Passionate about developing secure REST APIs, responsive web applications, and solving real-world problems through clean and efficient code.

Education

Vidyavardhini's College of Engineering and Technology

B.E. in Computer Engineering | GPA: 7.2/10.0

Y.B. School & Jr College

Higher Secondary Certificate (HSC) | 89.33%

Sep. 2022 – May 2026

Vasai, Maharashtra

June 2020 – March 2022

Aurangabad, Maharashtra

Technical Skills

Languages: Java(OOPs), JavaScript, Python, SQL

Frontend: HTML5, CSS3, React.js, Bootstrap, Tailwind CSS, Redux Toolkit

Backend: Node.js, Express.js, REST APIs, JWT Authentication

Databases: MongoDB, MySQL, PostgreSQL

Cloud & DevOps: AWS, Docker, Git & GitHub, MongoDB Atlas, Render, Netlify

APIs & Security: Passport.js, Google Maps API, Cloudinary

Others: DSA, OOPs, DBMS, ML & DL Basics, SDLC, Debugging, Software Testing Basics, Problem Solver

Experience

Edunet Foundation Associate With AICTE

April 2025 – May 2025

AI & ML Trainee Intern

Remote

- Developed and deployed an animal-classification deep learning model using Python and Streamlit for real-time image prediction.
- Built a CNN-based computer vision pipeline to classify waste images for smart recycling applications.
- Deployed both AI solutions as interactive web applications, covering the complete workflow from model development to deployment.

VaultOfCodes

Sep. 2024 – Oct. 2024

Python Programmer Intern

Remote

- Developed a Python-based Personal To-Do List application with persistent file storage and interactive command-line functionality.
- Published the application on Netlify, gaining hands-on experience with deployment workflows and version control.

VCET Solechthon

2022 – 2025

Autonomous Drive Team Lead

Vasai, Maharashtra

- Led an 8-member Autonomous Systems subsystem within a 30+ member engineering team developing a Level-2 autonomous vehicle.
- Independently researched and integrated LiDAR, cameras, actuators, and embedded hardware for autonomous navigation.
- Co-developed an ADAS lane-changing system integrated with an SAE Solar Electric Vehicle, securing AIR 1 nationally at SEVC 2025.
- Coordinated software, computer vision, and IoT hardware development using Python, ESP32, Arduino, and Raspberry Pi.

Projects

Intelligent Audio-Video Dubbing with Wav2Lip | *Python, Deep Learning, ASR, NMT, Computer Vision*

2025 – 26

- Engineered a five-stage multilingual (Hindi ↔ Marathi) video dubbing pipeline using ASR, Neural Machine Translation, Voice Cloning, and Wav2Lip.
- Processed 20–25 evaluation videos, achieving approximately 85–90% lip-sync accuracy while preserving speaker identity.
- Optimized the full pipeline for high-fidelity lip synchronization via the Wav2Lip framework.

Listing Web Application | *MongoDB, Express.js, React.js, Node.js, REST APIs, Bootstrap, Cloudinary*

2024

- Developed a full-stack MERN web application with JWT authentication, session management, and role-based access.
- Integrated Cloudinary for scalable image upload/management and Google Maps API for location-based browsing.
- Implemented RESTful API endpoints with Express.js, enabling seamless CRUD operations across the application.

Human Screaming Detection System | *Python, CNN, Signal Processing, Data Handling, Visualization*

2024

- Developed a CNN-based audio classification system trained on 150–160 samples, achieving nearly 90% detection accuracy.
- Applied signal preprocessing and feature extraction techniques to enable real-time emergency scream detection.

Achievements & Certifications

Achievements: AIR 1 – SEVC 2025 (Autonomous Lead) | AIR 1 – ESVC 3000 | AIR 6 – SEVC 2024 | 2nd Place – Projecthathon, Atharva College | VNPS Winner 2026, VCET | Best Paper Presentation at IEEE Conference 2026

Certifications: Full-Stack MERN Developer – Apna College | Java Developer – Apna College | Java & Python Programming – Infosys Springboard

Copyright & Publications

Copyright holder for **Intelligent Audio-Video Dubbing with Wav2Lip** | Presented a research paper at **IEEE** Conferences

Leadership & Community

Joint Secretary (CSI VCET) | 2025–26 **Admin Head (VCET Literati Club)** | 2023–26