

VENKATESH BADIGER

venkateshbadiger2004@gmail.com — +91 89040 65051 — LinkedIn — GitHub

Profile Summary

Aspiring **AI and Data Science Engineer** with hands-on experience in full-stack web development, secure communication systems, and applied machine learning. Passionate about building scalable, intelligent, and privacy-preserving software solutions.

Education

Ramaiah Institute of Technology (MSRIT), Bengaluru B.E. in Artificial Intelligence and Data Science Roles: MSRIT Quiz Club — Club Coordinator, NSS MSRIT — Core Member	2022–2026 CGPA: 8.0 (till 6th semester)
---	--

Experience

Intra-Institutional Internship, MSRIT <i>Hybrid Web Development (Frontend focus)</i> • Built responsive UI components and optimized load performance and accessibility. • Integrated REST APIs and implemented client-side routing and state handling. • Collaborated with a small team using Git/GitHub and agile code reviews.	2023
---	------

Projects

Secure Messaging System with AES-256 Encryption <i>JavaScript, Firebase, Web Crypto</i> • Developed a real-time messaging platform with end-to-end encryption using AES-256. • Implemented client-side key handling and temporary room lifecycle management to ensure confidentiality. • Delivered a lightweight UX leveraging Firebase Realtime Database for fast message delivery.	2025
Radar Rescuer — Disaster Management Companion <i>YOLOv8, Custom Dataset, React, Geolocation</i> • Trained a YOLOv8 model on a self-annotated dataset to detect trapped humans in debris. • Integrated GPS tracking to display detected coordinates on an interactive React-based map. • Built a working prototype demonstrating real-time detection and geolocation visualization.	2024
AI-Powered Video-to-Text Translator <i>Python, Whisper, Helsinki NLP, Hugging Face, Google Colab</i> • Automated transcription and multilingual translation of video speech with live subtitle generation. • Implemented end-to-end translation workflow with language detection and accessibility focus.	2023

Technical Skills

Programming: Python, C, Java

Web: HTML, CSS, JavaScript, React, SQL, Firebase

Tools: Git, GitHub, VS Code, Jupyter Notebook, Google Colab

Core Areas: Machine Learning, Artificial Intelligence, Computer Vision, Data Science, Cloud Computing, Software Engineering

Achievements

- SAP Labs National Hackfest Finalist (2024):** Finalist (Top 20/1000+) for developing an AI concept using GPR for disaster rescue.
- Smart India Hackathon (2024):** Contributed innovative technical solutions addressing real-world government problem statements.

Certifications (NPTEL)

- **Cloud Computing (IIT Kharagpur)** — Prof. Soumya Kanti Ghosh
- **Computer Vision and Image Processing: Fundamentals and Applications (IIT Guwahati)** — Prof. M. K. Bhuyan
- **Data Science for Engineers (IIT Madras)** — Prof. Ragunathan Rengasamy