SREEHARI SURESH

AI Engineer | ML Engineer | Computer Vision Specialist | GenAI Engineer

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Portfolio | GitHub | LinkedIn

PROFESSIONAL SUMMARY

Applied AI Engineer with hands-on experience building Computer Vision, Machine Learning, Generative AI, NLP, and intelligent automation solutions. Experienced across the AI development lifecycle, from data preparation and model development to optimization, deployment, and building AI-powered applications. Worked with real-time vision and embedded systems as well as LLM applications, chatbots, business automation, APIs, and software workflows.

CORE SKILLS

AI & ML: Machine Learning • Deep Learning • PyTorch • TensorFlow • Scikit-Learn • Model Evaluation • NLP

Computer Vision: YOLO • Object Detection • OpenCV • Image Processing • Tracking • Pose Estimation • Real-Time Inference

Generative AI: LLMs • RAG • AI Agents • LangChain • Prompt Engineering • LLM Chatbots • TTS

Embedded & Deployment: Raspberry Pi • TensorRT • ONNX • GPU Optimization • LiDAR • Edge AI • Real-Time Deployment

Software & Automation: Python • Flask • REST APIs • Databases • Google Apps Script • Google Sheets • Shopify • WhatsApp Automation

Engineering: Git • GitHub • Linux • NumPy • Pandas • Dataset Annotation • Precision / Recall / mAP

WORK EXPERIENCE

Freelance AI Engineer

Aug 2025 – Present

- Delivered AI and ML solutions across Computer Vision, NLP, Generative AI, and intelligent automation use cases.
- Built LLM-based chatbots and scripted conversational workflows for practical customer-facing use cases.
- Built a WhatsApp business automation system using QuickReply, Google Sheets, Google Apps Script, and Shopify integration, covering lead qualification, personalized product recommendations, customer/order management, follow-ups, appointment handling, and operational SOPs.

AI Intern – Campervan Factory Pvt. Ltd., Chennai

Nov 2024 - Jul 2025

- Designed and deployed a hybrid LiDAR + camera obstacle detection system for caravan safety applications.
- Integrated Raspberry Pi, LiDAR sensors, and camera modules for real-time inference, visual/audio alerting, and field validation.
- Achieved 92% detection accuracy across urban and forest environments.
- Reduced power consumption by 25–35% through intelligent camera activation logic and iterative performance tuning.

AI Intern – ISMO Bio-Photonics Pvt. Ltd., Chennai

Aug 2024 - Nov 2024

- Developed YOLO-based object detection pipelines for dynamic video environments.
- Reduced median inference latency from 14 ms to 4 ms, a 71% improvement, using GPU acceleration with ONNX and TensorRT.
- Curated and labeled 2,500+ images for training and evaluation and built real-time video tracking pipelines with performance benchmarks.

Data Analyst Intern – Kanini Software Solutions Pvt. Ltd., Coimbatore
Jul 2022 - Aug 2022

- Assisted in data cleaning and exploratory analysis using R and Excel.
- Supported internal reporting and visualization workflows.

EDUCATION

Master of Science (M. Sc) - Artificial Intelligence
Sri Ramachandra Institute of Higher Education and Research - Chennai 2023 - 2025

Bachelor of Science (B. Sc) - Artificial Intelligence and Machine learning
Sri Saraswathi Thyagaraja College - Pollachi 2020 - 2023

PROJECTS

Intelligent Traffic Management System | Computer Vision

Built a live-video traffic management prototype that counts vehicles and dynamically adjusts signal timing. Achieved 98% detection accuracy in controlled tests while prioritizing high-volume lanes and enforcing minimum wait times.

Hybrid LiDAR + Camera Safety System | Embedded AI

Built a real-time obstacle detection and alerting system for caravan safety, combining sensor data with camera-based detection and intelligent camera activation for lower power consumption.

AI Voicebot / LLM Chatbot | Generative AI

Developed a conversational system supporting text and voice interaction, combining NLP, deep learning, LLM conversational workflows, and text-to-speech, with Flask used for local deployment and testing.

Automated Fake Currency Detection | Computer Vision

Developed an automated Indian currency verification prototype using ORB feature matching and SSIM comparison of security features, achieving 94% detection accuracy.

Additional ML Prototypes

- Medical Image Analyzer
- Bone Break Classification
- Sentiment Analysis Engine
- Image Steganography
- Game Avatar Control
- Traffic Sign Detection
- Heart Health Prediction
- AirMouse Cursor Control

CERTIFICATIONS & TECHNICAL ACTIVITIES

- Data Analytics Job Simulation from **Deloitte**!
- Generative AI Mastermind from **Outskill**!
- NUNNARI Labs — Machine Learning & Deep Learning Workshop (Score: 86%), 2022
- Microsoft — Classroom on Artificial Intelligence, 2023
- GUVI(HCL–IITM Incubated) — AI Learnathon Participant (large-scale AI/Python Learning Initiative)
- DevFest 2022 — Google Developer Group, Coimbatore (Participant)
- Website hosting and design for Tech event "ZEST NOVA