LINGHURAJ P R

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Professional Summary

Results-driven AI Engineer with expertise in building intelligent systems, AI agents, and computer vision solutions using Python, YOLO, Django, and Flask, with strong problem-solving and leadership skills.

Projects

AI-BLINDASSIST: Intelligent Vision and Voice-Based Assistant for the Visually Impaired Nov 2025~Dec 2025

- Developed an AI-powered assistant integrating computer vision and speech processing to assist visually impaired users with real-time environmental awareness.
- Implemented object detection and voice interaction using deep learning models to provide audio-based navigation and object identification support.

AI-Powered Pedestrian-Aware Traffic Signal System Sept 2025~Oct 2025

- Developed a real-time pedestrian detection system using YOLOv8 and Flask to dynamically control traffic signals based on live video input.
- Improved road safety and traffic efficiency by integrating AI-based object detection with automated signal timing logic.

InteriorDiffusion: Layout-Preserving Interior Image Editing Pipeline Jan 2026~Apr 2026

- Developing a generative AI pipeline using diffusion models to perform layout-preserving interior image editing and scene transformation.
- Implementing controlled image generation techniques to modify textures, styles, and objects while maintaining spatial consistency.

Patent :

- AI-Powered Pedestrian-Aware Traffic Signal System
  (Docket No : 55345)
- InteriorDiffusion: Layout-Preserving Interior Image Editing Pipeline
  (Docket No : 56302)

Publication :

- InteriorDiffusion: Layout-Preserving Interior Image Editing Pipeline
  (Docket No : 55345)

Education

Sri Shakthi Institute of Engineering and Technology, Coimbatore
B.Tech information Technology
8.16 CGPA ***2022~2026***

Swamy Vivekanandha Matric Higher Secondary School
12th Math/ Physics/ Chemistry/ Biology
85.5% ***2021***

Senthil Public School ,CBSE
10th - **73%** ***2019***

Skills

Programming Languages: Python, JavaScript, Java, SQL, HTML, CSS
AI & Machine Learning: Computer Vision (YOLOv5/v8), NLP, Gen AI, Diffusion Models, Model Deployment, AI Agents, Prompt Engineering
Frameworks & Libraries: Django, Flask, React.js, GraphQL, PyTorch, Scikit-learn, OpenCV, NumPy, Pandas
AI Agents & Intelligent Automation: LLM-based Agents, n8n , API Integration, Tool Calling, AI System Orchestration
Development Tools & Platforms: Git, GitHub, Docker, Linux, Postman
Core Competencies: Leadership, Strategic Thinking, Problem-Solving, Adaptability, Team Collaboration

Achievements

Smart India Hackathon 2024
Role: Team Lead **-Internal Nominees**

Area Of Interest

Artificial Intelligence, AI Agents & Intelligent Automation, Computer Vision, Generative AI, Applied Machine Learning