VINODHAN V A

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Executive Summary

Aspiring Generative AI Engineer with hands-on experience building LLM-powered apps, automation agents (n8n), and computer vision models. Skilled in Python, YOLO, prompt engineering, and deploying AI systems with Docker and APIs. Strong ability to build end-to-end AI solutions, experiment rapidly, and deliver real-world prototypes. Passionate about GenAI, machine learning, and modern web technologies, seeking my first industry role to grow and contribute.

Technologies / Skills

- **Programming:** Python, C, Java, MySQL
- **AI/ML:** TensorFlow, PyTorch, YOLOv11, OpenCV, NLP, Model Fine-Tuning
- **Generative AI:** OpenAI, Llama, Ollama, RAG Pipelines, AI Agents (MCP, n8n)
- **Web:** HTML, CSS, JavaScript, React.js, TypeScript, Express.js.
- **Database:** CSV/JSON, Vector DBs (Supabase, ChromaDB, MongoDB)
- **Tools & Cloud:** Docker, Git, Postman, Google Colab, AWS (Lightsail, EC2), Google Cloud APIs, VS Code
- **Soft Skills:** Leadership, Communication(Secretary, KIOT Rotaract Club), Team Collaboration

Projects

AI Virtual Voice Assistant - **"Role: Full-Stack / AI Developer (LLM integration + automation)"** **(LINK)↗**

- Developed a voice + text AI assistant using LLMs, speech recognition, and API workflows to automate tasks and deliver real-time intelligent responses, showcasing end-to-end GenAI system engineering.
- Tools & Technologies: YOLOv11, Python, OpenCV, CSV/JSON Pipelines, ImageAI

FinPilot – AI Financial Assistant - **"Role: Team Lead / Generative AI Developer (Leadership + GenAI app development)"**

- Led development of a Google Gemini–powered financial assistant with chat/voice interfaces and dashboards for anomaly detection, demonstrating strong leadership and GenAI product delivery.Tools & Technologies: Google Gemini, Python, REST APIs, Dashboards, Speech & Chat Interfacess.

HR Agent Pre-Screening Workflow — n8n Automation - **"Role: AI Automation Engineer"** **(LINK)↗**

- Developed an LLM-powered HR pre-screening automation workflow using n8n, integrating structured questionnaires, API orchestration, and intelligent response generation to automate candidate evaluation and reduce manual HR screening time.
- Tools & Technologies: n8n, LLMs (OpenAI/Gemini/Llama), Webhooks, API Integrations, JSON Workflows

Object Detection Using YOLOv11 - Role: Model Developer (ML/CV project — shows model training + automation) **(LINK)↗**

- Built a custom YOLOv11 object detection model with automated CSV/JSON pipelines and OpenCV preprocessing, reducing manual annotation effort by 40% and delivering a scalable CV workflow for future use.
- Tools & Technologies: YOLOv11, Python, OpenCV, CSV/JSON Pipelines, ImageAI

PUBLICATION

A Flexible Multi-Task Structure Contextual Modality Attention-Based Emotion Recognition **(LINK)↗**

Education

Knowledge Institute of Technology, B. E in Computer Science and Engineering		May 2023 – May 2027

- CGPA: 7.50/10.0

Jayarani Matric Hr. Sec. School, Higher Secondary Education – 12th Standard

- Percentage: 66%

Sri Vidya Mandir Hr. Sec. School, Secondary Education – 10th Standard

- Percentage: 75%

Languages

English | Tamil | Hindi