

RAGAV VISWANATH

B.Tech CSE, VIT

Full-Stack Developer | Generative AI | Intern @Ford Motors & @AiQod
Google Scholar | ML & DL Researcher | Platform Engineer | DevOps
Azure AI Engineer Associate

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CERTIFICATIONS



AI-102 | AZ-900

IBM Security roles | Google Analytics

HACKATHONS

Won 1st Prize in
2 National level Hackathons

JOURNALS

5 Papers published
SCI & Scopus indexed Journals
Presented @Bangkok

SKILLS

- **ML & GenAI** Engineering
- **Full Stack** – MERN Stack
- **Cloud & DevSecOps**
- **Agile Product Development**

PATENTS

Gesture Controlled Robotic Arm

CLUBS

- Tech Member ZBC & CYSCOM, VIT

LANGUAGES

- English, Hindi, Tamil

Intern Experience

1. **Ford Global Solutions**, Chennai, India **On-Site**
 - **Jan- June'25** : **Platform Engineering** Intern - eCommerce products
 - **Aug- Oct'23** : **DevSecOps** Intern for eCommerce Portal
2. **AIQoD**, Pune, India **Remote**
 - **Aug- Sep'23** : **ML Engineer** Intern – **Generative AI**

Education

- **B.Tech** (CSE – Cyber Physical Systems) **9.2 /10 CGPA**
Vellore Institute of Technology (**VIT**), Chennai - 2021-2025
- Higher secondary (CBSE) – **96.4%** - Mar 2021

Skills

- **Full Stack**: Node.js, Express.js, Flask, Django, Next.js, EJS, React.js, Typescript, MERN, Tailwind CSS, DevOps, Git, CI/CD, GitHub, Rest APIs
- **Programming** : Python, R, Java, C, C++, JavaScript, TypeScript
- **ML Engineering**: GPU optimization, Model Quantization, NLP, Computer Vision, Image generation, PyTorch, Tensorflow, Matlab
- **GenAI**: LangChain, HuggingFace, RAG, AI Agents, Vector DBs
- **Cloud** : GCP, Tekton, Vercel | **DB**: Postgres, Mongo, SQL & Chroma
- **Dev Tools** : Jira, Rally, VSCode, IntelliJ, Hopscotch, PowerAutomate

Projects

- **Remote-Multimodal (Gesture & Voice)** controlled, cost-effective **Robotic Arm** with way point tracking for manufacturing ops.(Arduino)
- **Real-time Nano-Drone** based SOS detection & alerting system
- **Candidate profiling & Job matching platform** leveraging GenAI : [Link](#)
- **FactXpert - LMS APP** with Admin & Student functions/CMS – Next.js & Mongo DB - Won **1st Prize @ National Hackathon** : [Link](#)
- **Facility Management & Maintenance** application : [Link](#)

Publications | Research Works

- International conference @**Bangkok** - Design Drawing Extraction & conversion. Springer, 2024 : [Link](#)
- A new clinical diagnosis system for detecting brain tumour using DL. **SCI Indexed Journal - Impact factor: 5.1 Elsevier**, 2024 : [Link](#)
- Comprehensive Autonomous Vehicle Optimal Routing with Dynamic Heuristics **Taylor & Francis**, 2024 : [Link](#)
- Underwater dehazing, debris detection and geospatial mapping
- Multi-modal Image translation for medical MRI imaging – Novel working solution for paired MRI synthesis & efficient segmentation