

JAYADEEP GOWDA

AI & ML Developer | Robotics | Full-Stack Engineer

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EDUCATION

Bangalore Institute of Technology

Bachelor of Engineering in Robotics and Artificial Intelligence

Bangalore, Karnataka

2023 – 2027

- CGPA: **8.8 / 10** (Current)

JS PU College

Pre-University Course (PUC)

Bangalore, Karnataka

2021 – 2023

- Percentage: **96%**

TECHNICAL SKILLS

- **Programming & Core Tools:** Python, JavaScript, TypeScript, C++, SQL, Git, Docker
- **AI / ML Systems:** Large Language Models (LLMs), NLP, Computer Vision (real-time inference), RAG, vector search, vector databases (FAISS), embeddings
- **Machine Learning (Applied):** Supervised learning, feature engineering, model evaluation
- **Robotics & Edge AI:** Embedded systems, sensors, on-device inference, hardware-software integration
- **Backend & Systems:** FastAPI, REST APIs, event-driven architectures, low-latency systems
- **AI Frameworks & Platforms:** LangChain, Ollama (local LLMs)

EXPERIENCE

Frillary Design House

Digital Content Creator Intern

Bangalore, India

Jun 2025 – Aug 2025

- Optimized technical workflows, improving content publishing consistency by **30%**.
- Reduced manual content handling effort by **25%** through tooling and layout optimization.
- Collaborated with designers to deliver production-ready assets under deadline-driven workflows.

PROJECTS

Cognis | *FastAPI, LLM Systems, FAISS, Vector Search*

GitHub Link

- Architected a memory-augmented LLM system to detect recurring reasoning failures across sessions.
- Designed a temporal pattern-scoring algorithm, driving a **40–60% reduction** in unproductive queries.
- Deployed a local-first service achieving **sub-200ms retrieval latency** using local LLMs.

YOLO Mart | *Robotics, Embedded AI, ESP32-CAM*

GitHub Link

- Designed an ESP32-based autonomous smart cart with on-device computer vision for real-time tracking.
- Achieved **20 FPS real-time inference** using optimized lightweight vision models.
- Integrated hardware with a full-stack retail platform for seamless user interaction.

High Five | *WebRTC, Node.js, Distributed Systems*

GitHub Link

- Engineered a voice-first social platform using WebRTC and event-driven backend signaling.
- Achieved **sub-300ms audio latency**, enabling smooth live communication at scale.

ACHIEVEMENTS & LEADERSHIP

- **Runner-Up** — GlitchVerse 2k25 Project Expo (AI & Robotics focus)
- **National Finalist** — Anveshana (National-Level Project & Research Competition)
- **Core Organizer** — Ideathon 2025; led planning and execution for a large-scale technical event
- **Networking Manager** — Softtechie College Club; handled industry outreach and collaborations

CERTIFICATIONS

- Artificial Intelligence and Machine Learning — Infosys Springboard (2025)
- Complete AI & Machine Learning, Data Science Bootcamp — Udemy