Ashutosh Gunjal

Full Stack | AI Engineer | Robotics Developer — Focused on Intelligent Systems Scalable Applications

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Skills

- **Programming:** Python, C/C++, C#, Java, JavaScript
- **Frameworks/Libraries:** PyTorch, FastAPI, Flask, OpenCV, LangChain, Hugging Face
- **Tools/Technologies:** Git, Linux, Firebase, Arduino IDE, Sensor Interfaces

Experience

SmartBridge (in collaboration with Google)   *May 2025 – July 2025*

Virtual Internship – Generative AI Track

- Completed structured coursework from Google and IBM on Generative AI, covering foundational and advanced concepts.
- Built a hands-on Gen AI project applying large language models, prompt engineering, and knowledge integration techniques.
- Leveraged tools such as Gemini APIs and other Gen AI platforms to develop scalable AI-driven applications.

Projects

NutriGen – Generative AI Nutrition Coach   *Apr 2025 – May 2025*

- Developed a Gen AI-powered web app that offers personalized meal plans, nutrition analysis, and 24/7 AI coaching using Google Gemini and USDA APIs.
- Integrated prompt-engineered interactions with Gemini models for dietary guidance and used nutrition datasets to tailor recommendations based on user profiles.
- Ensured responsiveness and scalability using a modular backend design and lightweight deployment stack.

Invisible MIDI Instrument – Arduino-based Touchless Controller   *Jan 2025 – Feb 2025*

- Designed a gesture-based MIDI controller using IR proximity sensors and Arduino to play musical notes and switch instruments in real time.
- Focused on accessibility and expressive performance by enabling contactless musical interactions suitable for users with physical limitations.
- Built a dynamic interface for real-time control using MIDI protocol and sensor calibration logic.

CVLA Interactive AI Lab – Web App for Math Learning   *Feb 2025 – Mar 2025*

- Created a browser-based interactive learning platform using Flask and JavaScript to visualize concepts in Complex Variables and Linear Algebra.

- Used lightweight AI models and math engines to render plots, simulate transformations, and solve equations in real time.
- Designed the UI for education and self-paced exploration, helping users understand abstract math topics through intuitive interfaces.

Productivity Tools – Web Apps Suite *Ongoing*

- Developed three independent web applications: *Memory Jar*, *Roadmap Creator*, and a *Gamified Daily Task Manager*, focusing on reflection, planning, and motivation.
- Implemented intuitive UIs with component-based design and modular backends for persistent task tracking, roadmap visualization, and memory saving.
- Emphasized productivity through gamification techniques and progress-based feedback systems to improve user engagement.

Education

Vellore Institute of Technology, Chennai *Aug 2023 – July 2027*

Bachelor of Technology (CSE) **CGPA: 8.50**

Shramik Junior College *June 2021 – May 2023*

Secondary Education **Percentage: 86.00**