

Varad Pensalwar

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PROFESSIONAL SUMMARY

AI/ML undergraduate with hands-on experience building voice assistants, Generative AI tools, and workflow automations using OpenAI APIs, LangChain, Firebase, and LLM frameworks. Proven in deploying production-ready prototypes and integrating large language models into real-world use cases. Actively seeking internship or research roles in Generative AI.

EDUCATION

- **Sanjay Ghodawat University** Sep 2021 - Aug 2025
Bachelor of Technology in Artificial Intelligence and Machine Learning CGPA: 7.18/10.00
- **Janta Junior College, Naigoan** Apr 2021
Higher Secondary School Grade: 85.00%

SKILLS

- **Programming:** Python, JavaScript
- **AI/ML & GenAI:** OpenAI, LangChain, LangGraph, ElevenLabs, Whisper, HuggingFace, Prompt Engineering
- **Web Technologies:** Next.js, Tailwind CSS, Firebase, Streamlit
- **APIs & Automation:** n8n, Telegram API, Notion API
- **Databases & Deployment:** Qdrant, Firebase Firestore, Google Cloud Run
- **Soft Skills:** Technical Communication, Team Collaboration, Problem-Solving, Leadership, Adaptability, Product Thinking.

TECHNICAL PROJECTS

- **Ziggy - The Voice Assistant (GitHub)** Sep 2024 - Nov 2024
Tools: Python, HTML, JavaScript, CSS
 - Developed a modular voice assistant using Python and JavaScript that automates 12+ daily tasks (e.g., notes, reminders, weather) through natural language voice commands.
 - Achieved 90%+ voice recognition accuracy by integrating speech-to-text modules, enhancing user experience. .
 - Improved task automation efficiency by 50% and reduced user interaction time by enabling 3x faster setup compared to conventional voice tools.
- **PrepWise – AI-Powered Voice Interview Assistant (GitHub)** Dec 2024 - Jan 2025
Tools: Next.js, Tailwind, Vapi, Firebase, Shadcn/ui, Zod
 - Built an AI-powered interview prep platform using Next.js, Firebase, Tailwind CSS, and Vapi AI, reducing manual interview simulation time by 70%.
 - Connected Vapi AI voice agents with Gemini-2.5-flash-exp-native-audio-thinking-dialog for generating real-time, contextual feedback based on user conversations, improving feedback accuracy by 45%
 - Designed responsive UI with shadcn/ui, increasing engagement by 35%.
- **Samantha – The Automated Personal Assistant (GitHub)** Feb 2025
Tools: n8n, OpenAI, Deepseek, SerpAPI, ElevenLabs, Telegram, Notion
 - Developed an AI-powered voice agent workflow in n8n, using Telegram as the user interface and OpenAI for audio-to-text.
 - Orchestrated DeepSeek for language generation and task logic, ElevenLabs for voice synthesis, and integrated Gmail and Calendar APIs for real-time email and scheduling actions.
 - Enabled Internet access through SerpAPI and implemented memory modules for dynamic contextual conversations, boosting automation efficiency by 60%.
- **Ananya Agent: Multi-Modal AI Assistant (GitHub)** Mar 2025 - May 2025
Tools: : Python, LangGraph, Groq(Llama 3.3), Qdrant, ElevenLabs, Whisper, Chainlit, Google Cloud Run
 - Built a multi-agent conversational AI system using LangGraph workflows, enabling stateful logic and decision branches across LLMs for human-like interaction.
 - Integrated Retrieval-Augmented Generation (RAG) with Qdrant vector database to support long-term memory over 1000+ context turns, improving response relevance by 40%.
 - Deployed the system using Groq's Llama 3.3, Whisper-large-v3, and Google Cloud Run, achieving 94% speech accuracy and reducing latency by 43% with real-time streaming APIs.

EXTRA-CURRICULARS

- Joined an AI club to organize study groups, workshops, and tech talks. (2022)
- Completed 80 hours of NSS community work and mentioned for exemplary volunteering (2023)
- Crafted a reel-like video feature using LLMs in under 5 minutes. [\(Demo\)](#) (2024)
- Organized and led 5+ technical events of the AIML Club, engaging over 200 students. (2024)