HARSHIT SONI

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Professional Summary

Computer Science student at IIIT Vadodara with experience in developing AI-driven applications, automation systems, and backend services. Actively contributed to organizing hackathons, competitive programming contests, and technical workshops as a member of the **Technical Committee**. Demonstrated strong communication and leadership skills through service as **Literary Club** Secretary and as an event host, bringing confident stage presence and coordination abilities.

Education

Indian Institute of Information Technology Vadodara   **2022 – Present**
B.Tech (Computer Science and Engineering)

Experience

AI Tutor   **September 2025 – Present**
Trigrexam   *Remote*
- Delivered 12+ online seminars and workshops to 15+ Trigrexam web developers on integrating AI into web applications.
- Taught API integration, AI model deployment, and workflow automation concepts using real-world examples.
- Mentored developers to build AI-powered features including chatbots, summarizers, and smart search on live projects.

Project Intern   **May 2025 – July 2025**
Acxiom Technologies   *Hybrid*
- Built a system where users can upload PDFs and chat with an AI assistant that answers questions based only on the document content.
- Used LangChain and ChromaDB to handle document processing and enable accurate, context-based responses.
- Deployed the solution with a FastAPI backend and added basic analytics to track user queries and usage.

Technical Skills

- **Programming Languages:** Python, JavaScript, TypeScript, C++, Java, SQL.
- **AI & Machine Learning:** PyTorch, TensorFlow, LangChain, Hugging Face, ChromaDB, OpenCV, Scikit-learn.
- **Web Technologies:** Next.js, React, Node.js, FastAPI, WebSockets, WebRTC, REST APIs.
- **Tools & Databases:** Docker, Redis, MongoDB, MySQL, Git, AWS, Azure, Google Cloud.

Projects

WAuto: WABA Automation Platform | *FastAPI, JavaScript, Cloud API, MCP* ⌗ | 🔗 [Demo video](#)   **September 2025**
- Built a WhatsApp automation backend using FastAPI with webhook-based handling of live customer conversations.
- Integrated Google Calendar and Meet workflows to automatically schedule meetings and generate event links without manual steps.

Voice Agent: Smart AI assistant | *React.js, FastAPI, LangChain, ChromaDB, MCP* ⌗ | 🔗 [Live Demo](#)   **January 2025**
- Built two AI chat models: a task-focused agent powered by MCP servers and a friendly conversational model using LangChain and ChromaDB.
- Designed a context and memory system that helps the assistant understand ongoing conversations and respond more accurately across sessions.

Speech Synthesis: Neural Voice Cloning System | *Tacotron 2, HiFi-GAN, Gradio* ⌗ | 🔗 [Live Demo](#) **December 2024**
- Built a complete speech-synthesis pipeline combining Tacotron 2 and HiFi-GAN to clone a custom voice using a self-recorded dataset.
- Enhanced audio quality by improving spectrogram generation and fine-tuning prosody for more natural speech output.

Technical Achievements and Certifications

- Earned 25 badges and 6 trophies on **Microsoft Learn**, including **Azure AI Fundamentals: Computer Vision, Generative AI, and NLP**. ↗ [Profile](#)
- Completed 8 hours **NVIDIA Deep Learning Fundamentals** course, mastering neural networks, CNNs, and model optimization. ↗ [Certificate](#)
- Achieved **4-Star** rating on **CodeChef** with **Current rating: 1885 and global rank: 3360**. ↗ [Profile](#)
- Secured **3rd place** among 200+ participants in **Code Voyage 2024** (Inter-IIIT Coding Contest) by solving DP and graph theory problems. ↗ [Certificate](#)