

# HARSHIT SONI

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Portfolio

## Education

### Indian Institute of Information Technology Vadodara

2022 – 2026

B.Tech (Computer Science and Engineering)

## Experience

### AI Tutor

September 2025 – November 2025

Trigexam

Remote

- Delivered 12+ online seminars and workshops to 15+ Trigexam web developers on integrating AI into web applications.
- Taught API integration, AI model deployment, and workflow automation concepts using 20+ real-world examples.
- Mentored developers to build 5+ AI-powered features including chatbots, summarizers, and smart search on live projects.

### Project Intern

May 2025 – July 2025

Axiom Technologies

- Architected RAG system using LangChain and ChromaDB, processing 10,000+ documents with advanced chunking.
- Integrated LLMs with context-aware retrieval, boosting team productivity by 60% and cutting search time by 75%.
- Launched FastAPI service with analytics features, decreasing duplicate queries by 25% across teams.

### Microsoft Azure AI Intern

May 2025 – June 2025

Microsoft + Edunet

- Completed 40+ hours of Azure AI training via MS Learn, completing 15+ modules covering GenAI and neural networks.
- Engineered content moderation system using Azure Cognitive Services with 95% accuracy across 10+ languages.
- Deployed serverless React application with Azure Functions, achieving sub-second response times.

## 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

### Voice Agent: Smart AI assistant | React.js, FastAPI, LangChain, ChromaDB, MCP

| Live Demo

January 2025

- Designed 2 chat models: AI Agent using MCP servers and a Buddy model with ChromaDB + LangChain.
- Built RAG pipeline with 95% context match across 1,000+ interactions, ensuring persistent session memory.

### Speech Synthesis: Neural Voice Cloning System | Tacotron 2, HiFi-GAN, Gradio

| Live Demo

December 2024

- Developed end-to-end TTS pipeline combining Tacotron 2 and HiFi-GAN models, training on custom voice dataset of 200 sentences to clone own voice.
- Achieved 4.2/5 MOS score through spectrogram enhancement and prosody modeling, delivering natural-sounding audio.
- Accelerated inference speed by 45% using optimized PyTorch pipelines and memory management, serving 500+ users via Gradio interface on Hugging Face Spaces.

### SentiX.AI: Smart Sentiment Analyzer | React, FastAPI, Gemini

| Live Demo

November 2023

- Extracted 500+ company-related posts and comments from Reddit API, designing React frontend with FastAPI backend architecture.
- Classified sentiment data with 92% accuracy, categorized content into positive, negative, and neutral.
- Automated PDF report generation for sentiment analysis trends, reducing manual processing time by 70% for business insights.

## 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: 3748. [Profile](#)
- Secured 3rd place among 200+ participants in Code Voyage 2024 (Inter-IIIT Coding Contest) by solving DP and graph theory problems. [Certificate](#)