

Dhruv Sen

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SUMMARY

AI/ML Engineer with hands-on experience in both front-end and back-end development, and a strong focus on building intelligent, real-time AI applications.

TECHNICAL SKILLS:

- **Programming & Scripting:** Python, JavaScript, PHP, C, C++, Java
- **Web Development:** React, Next.js, Laravel, REST APIs, MySQL, Supabase
- **Machine Learning & AI:** Scikit-learn, Pandas, NumPy, TensorFlow, PyTorch
- **NLP & Speech AI:** Hugging Face, OpenAI Whisper, spaCy, TTS
- **Tools & Deployment:** Git, GitHub, FastApi, Flask, Postman, Docker

PROJECTS:

AI Therapist | Whisper + LLM | Speech-Based and Text-Based Empathetic Service Jan 2025-April 2025

- Engineered a real-time AI therapy assistant tailored for Gen Z users, combining speech-based interaction, sentiment analysis, and LLM-based response generation.
- Integrated **OpenAI Whisper** for automatic speech recognition (ASR) and **text-to-speech (TTS)** synthesis to enable natural voice conversations.
- Designed and fine-tuned **Qwen 2.5-7B** LLM using **Unsloth** (LoRA + 4-bit quantization) to generate empathetic and context-aware responses in low-resource environments.
- Developed an emotion-aware pipeline that detects user tone and sentiment in both text and audio inputs, enabling personalized, culturally relevant therapeutic conversations and increased efficiency from existing models by 20%.

SaaS Webinar Platform with AI Sales Agents

April 2025- July 2025

- Developed a SaaS-based webinar platform using **Next.js 15** for hosting both live and recorded sessions with responsive, modern UI.
- Integrated **Vapi AI** to build an intelligent AI sales agent that autonomously joins webinars, answers attendee queries, and drives lead conversions.
- Implemented lead generation and **CRM integration** with a **Neon PostgreSQL** backend to collect, manage, and analyze attendee data.
- Built a secure admin dashboard using **Clerk** for authentication and role-based access to train the AI agent and track real-time webinar analytics.
- Utilized **Stream** for high-quality video delivery, **Tailwind CSS** for styling, and **Gemini APIs** for contextual understanding and response generation.

CERTIFICATIONS:

- NPTEL Certification on Cloud Computing

EDUCATION:

- **Bachelor of Technology (B.Tech) in Computer Science**
Lovely Professional University | 2023 – 2027 (Ongoing) 8.1/10 CGPA
- **Higher Secondary Education**
St. Norbert School, Indore | 2022
- **Secondary Education (Class 10)**
St. Norbert School, Indore | 2020