

Sneha Chandravanshi

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Professional Summary

Driven and spirited Computer Science student with practical experience in full-stack development and AI/ML integration. Skilled in building scalable applications and solving complex problems through a strong problem-solving mindset and continuous learning. An adaptive and agile learner who excels in collaborative environments, actively engages in hackathons, and creates innovative solutions at the intersection of technology.

Education

Vellore Institute of Technology, Bhopal

Integrated (B.tech + M.Tech) in Artificial Intelligence CGPA: 8.51

Aug 2022 – Aug 2027

Technical Skills

- **Languages:** Python, Java, JavaScript, C++, HTML, CSS
- **Databases & Tools:** SQL, Excel, Git, Ollama
- **Frameworks :** React.js, Node.js, Dialogflow, Flask, Tensorflow
- **Libraries:** Pandas, Scikit-learn

Projects

EchoAI – Conversational Voice Agent

Dec 2024 – Feb 2025

Python, Mistral LLM (Ollama), ElevenLabs API, VADER Sentiment, Google Speech Recognition

- Reduced average response latency to under 8 seconds by running Mistral locally via Ollama and optimizing audio processing with lightweight libraries (Pydub, Simpleaudio).
- Engineered a modular voice-based conversational AI system with 90% real-time response accuracy by integrating local Mistral LLM, VADER sentiment analysis, and ElevenLabs TTS for emotion-aware replies.
- Integrated fallback mechanisms to gracefully handle failed speech recognition or LLM responses, increasing system reliability.

Gramin-Mitra – Rural Employment Platform

Aug 2024 – Oct 2024

Node.js, HTML5, CSS3, JavaScript, Scikit-learn, NLP

- Deployed a multilingual job portal supporting Hindi, English, and regional languages, covering 8 occupations across 8+ rural and semi-urban regions in India.
- Integrated an NLP-powered bilingual chatbot (Hindi + English) that resolved 90% of user queries in real time, improving platform accessibility for digitally less literate users.
- Developed an ML-based recommendation engine using Scikit-learn to match job seekers with relevant opportunities based on skills and location.

Nutrivista- Health-Focused Food Platform

Oct 2023 – Jan 2024

HTML, CSS, React.js, SQL, Python, Flask, Dialogflow

- Deployed a Dialogflow-powered chatbot that automated 85% of real-time customer queries, reducing average response time to under 5 seconds and boosting order conversion rates by 22%.
- Designed and launched a 50+ item health-oriented food catalog with balanced nutritional value, flavor, and variety.
- Built a secure backend using Flask and SQL to handle user authentication, food orders, and payments, ensuring data integrity and smooth transaction flow.

Certifications & Extracurricular

- Published research in Machine Graphics & Vision – “A Comparative Study of Classical Machine Learning and Deep Learning Techniques in Identifying Deepfakes” Jul 2025
- Cloud Computing Apr 2024
- Artificial Intelligence Foundations: Thinking Machines May 2023
- Applied Machine Learning in Python Dec 2023

Achievements

- Finalist – Top 50 out of 350+ Teams – The Food Hackathon CSIR-CFTRI, Mysuru May 2024
- 5- Star SQL Rating on HackerRank
- Completed 100 Days of DSA Challenge