

Sagar Manchakatla

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EDUCATION

Thadomal Shahani Engineering College

Bachelor of Engineering in Computer Engineering; CGPA: 9.34

Mumbai, India

Aug. 2023 – May 2026

Government Polytechnic

Diploma in Instrumentation Engineering; Percentage: 94%

Mumbai, India

Aug. 2020 – May 2023

EXPERIENCE

Full Stack Intern

Converse AI Labs

Aug. 2025 – Jul. 2025

Remote

- Developed and deployed backend services using FastAPI with scalable, low-latency, and modular architecture.
- Built automation workflows in n8n enabling voice-based AI lead qualification across multiple industries.
- Created custom LLM WebSocket servers with Client/Retell for real-time conversational AI interactions.
- Integrated Portkey.ai for LLM usage tracking, optimizing cost and enhancing transparency.
- Refactored legacy codebases to improve performance, reduce technical debt, and enhance maintainability.
- Delivered client demos leading to successful business onboarding and validation of product features.

MERN and Python Mentor

Static Int. Educare

Jul. 2024

Mumbai, India

- Mentored 200+ students in Python, covering beginner to advanced programming concepts.
- Taught data science tools: NumPy, Pandas, Streamlit, and Matplotlib with emphasis on EDA.
- Delivered training on web development fundamentals: HTML, CSS, JavaScript.
- Conducted hands-on MERN stack training (MongoDB, Express.js, React.js, Node.js) with project-based learning.

PROJECTS

Endless Runner | Python, MediaPipe, scikit-learn, OpenCV, Unity

- Developed a real-time hand gesture recognition system controlling Unity-based gameplay.
- Achieved 93% classification accuracy using a Random Forest model on gesture data.
- Leveraged MediaPipe and OpenCV for landmark detection and preprocessing.

Connect.io | Next.js, Stream SDK, Node.js

- Built a secure video conferencing platform with real-time chat, recording, and attendance tracking.
- Integrated Stream SDK for low-latency communication with end-to-end encryption.
- Implemented private meetings, scheduling, and calendar integration.

Travel-Ease | AI, Web

- Created an AI-powered travel assistant for differently-abled individuals.
- Implemented sign language detection, text-to-sign translation, and voice chatbot features.
- Added SOS alerts, object detection, and accessible navigation via map APIs.
- Won hackathon award for promoting inclusive and accessible technology solutions.

TECHNICAL SKILLS

Languages: C, Python, Java, JavaScript, SQL

Machine Learning & Data Science: Pandas, NumPy, Matplotlib, Streamlit, Scikit-learn

Web Development: HTML, CSS, JavaScript, ReactJS, Node.js, Express.js, Next.js, Flask, FastAPI

Databases: PostgreSQL, MySQL, MongoDB

EXTRA CURRICULAR ACTIVITIES

Microsoft Certified: Azure Fundamentals (**AZ-900**).

Hackathon Winner: **Codeissance - CodeStorm, TSEC** for *Travel-Ease*.