SAGAR MANCHAKATLA

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EDUCATION

Thadomal Shahani Engineering College — Mumbai, India
B.E. in Computer Engineering; CGPA: 9.34 — *Aug. 2023 – May 2026*

Government Polytechnic — Mumbai, India
Diploma in Instrumentation Engineering; 94% — *Aug. 2020 – May 2023*

EXPERIENCE

Frontend Developer Intern — Jul. 2025 – Sep. 2025
Lonely Bags — *Remote*

- Developed and maintained responsive, user-friendly web pages ensuring consistent UI/UX design across the platform.
- Implemented key frontend features including pagination, cookie management, secure authentication, and debouncing mechanisms.
- Worked closely with designers to convert Figma prototypes into optimized React components with reusable layouts.
- Enhanced frontend performance through code splitting, lazy loading, and efficient state management.

Full Stack Intern — Aug. 2025 – Jul. 2025
Converse AI Labs — *Remote*

- Engineered and deployed backend microservices using FastAPI and PostgreSQL, reducing API latency by 30% and supporting 1K+ concurrent users.
- Automated multi-industry AI lead qualification workflows in n8n, cutting manual effort by 40%.
- Built custom WebSocket servers for LLM-based real-time conversations, handling 5K+ daily interactions.
- Integrated Portkey.ai to track LLM usage, reducing operational cost 15% through optimized queries.
- Delivered client demos that secured 3 new business onboardings, validating product-market fit.

MERN and Python Mentor — Jul. 2024
Static Int. Educare — *Mumbai, India*

- Mentored 200+ students in Python, data science (NumPy, Pandas, Matplotlib, Streamlit), achieving 90% project completion rate.
- Delivered hands-on MERN stack (MongoDB, Express.js, React, Node.js) and Python, training enabling 10+ student projects.
- Conducted web development workshops (HTML, CSS, JavaScript) improving student skill assessments by 25%.

PROJECTS

Multi-Agent Context Writer | *CrewAI, Gemini LLM, FastAPI, Python* | GitHub
- Orchestrated multi-agent system using CrewAI with specialized agents for automated content generation.
- Integrated Gemini LLM for advanced NLP and content creation capabilities.
- Developed FastAPI backend to serve the multi-agent system with RESTful API endpoints

RAG DSS for FRA Rules | *Pinecone, RAG, Python, FastAPI, LLM Integration* | GitHub
- Developed Retrieval-Augmented Generation Decision Support System for FRA rules using Pinecone vector database.
- Implemented semantic search capabilities for accessing relevant FRA regulations and compliance information.
- Built FastAPI backend with LLM integration for accurate, context-aware regulatory queries.

Traffic Management System | *Python, YOLO, Flask, WebSocket, Computer Vision* | GitHub
- Built AI-driven adaptive traffic signal management system using YOLO-based vehicle detection and real-time computer vision.
- Implemented Flask backend with WebSocket integration for real-time traffic flow optimization and manual interventions.

Endless Runner | *Python, MediaPipe, scikit-learn, OpenCV, Unity* | GitHub
- Developed gesture-controlled Unity game with Random Forest achieving 93% gesture classification accuracy.

- Applied MediaPipe + OpenCV pipelines to reduce preprocessing time by 20%.

Connect.io | *Next.js, Stream SDK, Node.js* | GitHub
  - Created secure video conferencing platform with encrypted chat, attendance, and recordings; supported 200+ active users.
  - Integrated Stream SDK enabling sub-200ms latency video calls with calendar scheduling.

TECHNICAL SKILLS

Languages: C, Python, Java, JavaScript, SQL
Machine Learning: Pandas, NumPy, Matplotlib, Scikit-learn, Streamlit
Web Development: HTML, CSS, ReactJS, Node.js, Express.js, Next.js, Flask, FastAPI
Databases: PostgreSQL, MySQL, MongoDB
Tools: Git, Docker, Google Cloud (Basics), Azure (AZ-900 Certified)

ACHIEVEMENTS

Microsoft Certified: Azure Fundamentals (AZ-900).
Oracle Cloud Infrastructure AI Foundations Associate.
Hackathon Winner: Travel-Ease at CodeStorm, TSEC.