

SAGAR SAWLANI

+91 8779372657 | sawlanisagar1@gmail.com | <https://www.linkedin.com/in/sagar-sawlani/> | <https://github.com/SagarSawlani>

PROFILE

Aspiring Computer Engineer passionate about Artificial Intelligence, particularly Generative AI. Possess strong conceptual understanding and hands-on experience with **Large Language Models (LLMs)**, **Retrieval-Augmented Generation (RAG) pipelines**, **Vector Embeddings**, and **LangChain**. Proficient in **Python**, **C++**, and **JavaScript**, with additional expertise in **ReactJS** and **TailwindCSS** for building interactive interfaces. A proactive learner with strong networking and collaboration skills, eager to contribute to innovative AI solutions.

PROJECTS

AquaIntel - AI-Powered Marine Analytics Platform

[Link](#)

ReactJs, NodeJs, Google Maps API, Google Gemini AI, Geospatial visualization, Shadcn/ui

- Collaborated on a team to build a full-stack application processing complex marine datasets with AI correlation analysis, where I contributed to the Gemini AI integration and geospatial visualization components
- Implemented Google Gemini AI integration for natural language queries and automated insights, reducing manual data analysis time by providing intelligent chat interfaces and predictive correlation modeling

Paperwise

[Link](#)

React, Python, FastAPI, Google Gemini API, ChromaDB, LangChain, SentenceTransformers, Web Speech API

- Built a full-stack AI-powered document intelligence platform, enabling users to upload, manage, and analyze multi-format documents (PDF, DOCX, TXT).
- Implemented an end-to-end Retrieval-Augmented Generation (RAG) pipeline using the Google Gemini API and ChromaDB to power multi-document contextual Q&A, AI summarization, and an integrated voice-activated UI.

News Research Tool

[Link](#)

Streamlit, Groq API, LangChain, Llama 3.1 (8B/70B variants), FAISS, Sentence Transformers, Python

- Engineered a Retrieval-Augmented Generation (RAG) system that processes news articles from user-provided URLs, creating a vector database for intelligent, context-aware Q&A.
- Developed a Streamlit web interface allowing users to input URLs and ask questions, with the LLM providing answers sourced directly from the article content, enhancing research accuracy and efficiency.

AI Doctor Voicebot

[Link](#)

Gradio, Speech Recognition, Image Analysis, Text-to-Speech Llama-4-Scout-17B, Python

- Engineered a multimodal AI system that processes patient voice descriptions and medical images using Groq's Llama model to generate preliminary diagnoses and treatment advice in real-time..
- Developed a full-stack application with a Gradio interface, integrating speech-to-text for patient input and text-to-speech for doctor responses, creating an intuitive telemedicine consultation experience.

CERTIFICATIONS

- Microsoft Certified: Azure AI Fundamentals (AZ-900)
- Oracle Cloud Infrastructure 2025 Generative AI Professional

EDUCATION

BE IN COMPUTER ENGINEERING

Thadomal Shahani Engineering College

2023-Present

- Average CGPA of 7.8 in Semester I, II, III & IV

HSC

Arya Gurukul Junior College Of Science & Commerce

2020-2022

- 89%ile in JEE Mains
- 96%ile in MHT-CET
- 68% in HSC

CBSE

Nalanda Public School

2010-2020

- 77.4% in CBSE

WORK EXPERIENCE

CSI-TSEC

Publicity Head

2025 – Present

- Promoted from team member to lead the publicity division, overseeing a team of 9 members.
- Developed and implemented comprehensive publicity plans for major events.

Publicity Team Member

2024-2025

- Played a key role in helping events achieve high attendance through effective promotion and audience targeting.
- Built a strong network and connections