

Siddhant Kumar Sahu

Portfolio

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EDUCATION

- **MIT Academy of Engineering** Pune, India
Bachelor of Technology; GPA: 8.15 Aug 2023 - ongoing

SKILLS SUMMARY

- **Languages:** HTML, CSS, Javascript, C++, SQL, Python, React.js, Tensorflow, Sci-Kit Learn
- **Tools:** Docker, GIT, MySQL, Data Analytics, Machine Learning, Deep Learning, MATLAB, Power BI, Figma
- **Soft Skills:** Leadership, Competitive Programming, DSA, Public Speaking, Time Management, Debate

EXPERIENCE

- **CLOUDNAUTICS** Remote
Internship June 2024 - July 2024
 - **AWS - S3 Static Website:** An image was fetched from S3 Bucket and was added to the html css snippet which was connected to an EC2 Instance and was then further stored as container using Docker
 - **WordPress Website on Apache Server:** Used WordPress as my database for the website and the website was running on a Apache Server which was connected to an AWS EC2 Ubuntu Instance using SSH Client (MobaXterm)
- **Univ.AI** Remote
Internship June 2025 - July 2025
 - **Real Time Data Dashboard:** Using visualization Libraries(Seaborn, iplotly, Matplotlib) created real time visuals streamed from MongoDB and cached in Redis for a Restaunt's real-time timeseries data
 - **Time Series Forecasting:** Built a timeseries forecasting model using Machine Learning models like ARIMA, S-ARIMA, and LSTM and worked to improve accuracy from 37% to 72%

PROJECTS

- **LLM-Powered Intelligent Query System:**
 - Built a **document intelligence platform** with LLM parsing, FAISS/Pinecone embeddings for semantic search, automated summarization, and context-aware query handling.
 - Developed a modular **FastAPI backend** with logging and caching for low-latency multi-domain document retrieval.
 - **Tech Stack:** Python, FastAPI, Uvicorn, FAISS, Pinecone, LangChain, LLMs *GitHub*
- **Crypto Dashboard – Full-Stack Web App:**
 - Developed a **React/Vite cryptocurrency dashboard** with real-time Plotly.js visualizations, AI-driven news summarization, and Llama3 chat integration.
 - Built **FastAPI REST APIs** for backend, optimized data streaming and caching for real-time analytics.
 - **Tech Stack:** React, Vite, Plotly.js, FastAPI, Pandas, LangChain, OpenAI, Pinecone, NewsAPI *GitHub*
- **FRA Atlas – WebGIS Forest Rights System:**
 - Created an **AI-powered WebGIS platform** to digitize and visualize **Forest Rights Act claims**; applied U-Net for satellite imagery segmentation of forest, farmland, and water bodies.
 - Implemented a **RAG-based chatbot** to guide users, recommend schemes, and manage claims; backend supports spatial queries and analytics.
 - **Tech Stack:** Python, FastAPI, React, GeoServer, QGIS, TensorFlow (U-Net), LangChain, FAISS, PostGIS *GitHub*
- **Alzheimer-Prediction – ANN Model:**
 - Built an **ANN model** to detect **Alzheimer's disease** from structured patient data; performed scaling, encoding, and missing value handling for accurate predictions.
 - Trained using **Keras/TensorFlow**, evaluated with accuracy, precision, recall, F1-score; deployed via **FastAPI** for real-time predictions with serialized model artifacts.
 - **Tech Stack:** Python, FastAPI, Keras, TensorFlow, Scikit-learn *GitHub*

HONORS AND AWARDS

- Secured Third Prize at a District Level Debate Competition
- CodeChef div - 2 Coder, Rating: 1450
- CodeForces Rating : 950

VOLUNTEER EXPERIENCE

- **Member of Language and Literary club (MIT AoE)** Pune, India
Participating in multiple Oratoryt and public speaking events across Pune December 2023 - Present
- **Management Head of GeeksForGeeks Campus Body (MIT AoE)** Pune, India
Organizing Coding Contests and encouraging a healthy Competitive Programming environment January 2025 - Present