

# 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 fethed from S3 Bucket and was added to the html css snippet which was connected to an EC2 Instance and was then further was 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 Restraunt'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*