



Siddhesh Agarwal

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📍 Bangalore, India

🔗 Portfolio

🌐 LinkedIn

🐙 GitHub

🔗 Hashnode

🎓 Education

Sri Krishna College of Engineering and Technology, B.E. CSE ✎

Enrolled in a 4-year (8-semester) **Computer Science and Engineering** course.

Nov 2021 – May 2025

Coimbatore, India

Padma Seshadri Bala Bhavan Sr. Sec. School, 12th std. ✎

Studied in PSBB, KK Nagar, Chennai from Pre KG to Grade 12 (CBSE).

Aug 2006 – Jun 2021

Chennai, India

👛 Professional Experience

Data Engineer Intern, HyperVerge ✎

- Extracted, filtered and cleaned data for training fine-tuned LLMs

Jun 2024 – present

Banglore, India

Full Stack Developer, SKCET ✎

- The functionalities include a **Lab Inventory Management System**, and **student attendance** by scanning their ID Cards and assigning them systems. The Admin side consists of a **Bill Management System** and **PDF Report generation**.
- The core functionality was written in **PHP** and **Laravel** while the admin-side features were done using **Python** and **Streamlit**.
- Deployed in 11 Computer Labs at SKCET, Coimbatore.

Apr 2023 – Feb 2024

Coimbatore, India

🧠 Skills

Programming Languages

Python, JavaScript, TypeScript, C, C++, PHP

DataBase Management

MySQL, PostgreSQL, SQLite, MongoDB, Redis

ML/NLP/Gen AI

Pandas, TensorFlow, XGBoost, HuggingFace, Transformers, LangChain

Frontend Development

Vite, React, Next 13/14, Bootstrap, TailwindCSS, Shadcn-UI

Backend Development

Django, FastAPI, Flask, Celery, Laravel, Express.js, Firebase, Supabase

Tools

Git, GitHub Actions, Bash, Powershell, Linux, Docker, AWS, Vercel

📁 Projects

Newsful, An LLM Pipeline deployed as a browser extension to detect fake news ✎

- A Project for the **Kavach 2023 Cyber Security Hackathon**. This project utilizes the **OpenAI API** and connects it to the internet using the **LangChain** Framework. Then using **NLP**, the **keywords are extracted** from a sentence and **cross-referenced with verified fact-checking sites** to determine the accuracy of a given input.
- Used **Python**, **FastAPI**, **LangChain**, and MongoDB for the Backend and HTML, **JavaScript** and **BootStrap** for the browser extension.

ChainHive, A Suply Chain Management System ✎

- Created a **full-stack web application** for supply chain management that used a regression model to **forecast demand** based on previous trends and blockchain to **store payment records** for transparent audits.
- Used JavaScript, **React** and **TailwindCSS** for the frontend, Python, **FastAPI** for the Backend, SQLite for the Database, **XGBoost** for the regression along with Hardhat, and Solidity for the Blockchain.

ChatSKCET, A RAG Chatbot for SKCET ✎

- A Retrieval Augmented Generation (RAG) Model based on the data scrapped from the SKCET website ✎ and deployed on a kiosk in the SKCET admin office.
- Used Python, **FastAPI**, **LangChain**, and ChromaDB for Backend and **Next.js**, **TypeScript** and TailwindCSS for Frontend.

Skin Cancer Detection, *Web Application for Skin Cancer Detection* [↗](#)

- A web-based Application for **Skin Cancer detection** that uses a **Convolutional Neural Network** for the classification.
- Used **TensorFlow** for the CNN model and **Streamlit** for User Interface

Dementia Detection, *Web Application for Dementia Detection* [↗](#)

- A web-based Application for **Dementia Detection** that uses a **Convolutional Neural Network** for Image Classification,
- Used **TensorFlow** for the ML Model and **Streamlit** for the user interface.

IP Database, *A Python app to get information about an IP address* [↗](#)

- It is an IP and domain database that searches and retrieves IP-Domain pairs for identification purposes.
- Made using **Streamlit and MongoDB**. Deployed on **Streamlit Cloud**.

Cryptmoji, *A simple emoji-based encryption-decryption library.* [↗](#)

- Developed a text-to-emoji encryption tool that operates independently of external dependencies. Utilized bitwise XOR for cryptographic operations.
- Published as a **Python library with CLI** (made using Typer)

Pomofocus Clone, *A fully functional clone of the famous pomodoro app - Pomofocus* [↗](#)

- A lightweight clone of Pomofocus deployed on Vercel.
- Built using Vite, React, JavaScript and SASS.

Certificates

[Coursera](#) [↗](#)[FreeCodeCamp](#) [↗](#)[HackerRank](#) [↗](#)[Kaggle](#) [↗](#)[Udemy](#) [↗](#)

Awards

Kavach Hackathon, *Ministry of Home and AICTE*

Aug 2023

Won the Grand Finale of the Kavach 2023 Cybersecurity hackathon conducted by the Ministry of Home Affairs, AICTE and I4C. Made an LLM Pipeline deployed as a browser extension to **detect fake news**.

Overall Best Hack, *PoweringSTEM*

Jan 2023

Won the overall best hack for Diagnose.AI in the PoweringSTEMHacks hackathon along with a cash prize of \$200.

Runner Up, *I4C and Binance*

Aug 2022

Won the 2nd place in the Problem Statement "*Blockchain for Land Deeds*" in the Ideathon conducted by Binance and I4C.

2nd Runner Up, *KIET, Gaziabad*

May 2022

Won the 2nd Runner-up prize along with a coach prize of ₹15,000 in the Innohacks 1.0 hackathon conducted by the Innogeeks club of KIET, Ghaziabad.

Best Sustainable Hack, *SKCET*

Feb 2022

Won the title of "**Best Sustainable Hack**" in the Hack@SKCET hackathon conducted by HackClub (SKCET Chapter)

Languages

• English

• Hindi

• Tamil