

Kunal Agarwal

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EDUCATION

Vellore Institute of Technology

October 2022 - Present

Bachelor of Technology in Computer Science and Engineering (CGPA: 7.95/10)

INTERNSHIP

Software Developer Intern

Feb 2025 - April 2025

Sagacity Softwares Pvt. Ltd.

Remote

- Contributed to the development and enhancement of web-based applications using Python and Django.
- Gained hands-on experience in backend development and adapting to project requirements.
- Collaborated with the team to implement new features and improve system efficiency.
- Maintained professional conduct while complying with confidentiality guidelines.

PROJECTS

Bone Fracture Detection System | *Python, PyTorch, NumPy, OpenCV*

May 2024 – June 2024

- Achieved 94 percent accuracy on COCO dataset with a CNN-based fracture detection model, increasing diagnostic speed by 60 percent over manual inspection.
- Processed and analyzed 5,000+ labeled medical images to train and evaluate the deep learning pipeline.

DocuMind - AI Chatbot for PDF Documents | *Python, LangChain, OpenAI, ChromaDB, Streamlit*

Nov 2025

- Built a RAG-based chatbot that allows users to upload PDFs and ask questions
- Implemented document chunking and vector embeddings for semantic search
- Integrated OpenAI GPT for generating accurate context-aware responses
- Developed interactive web interface using Streamlit for easy document upload

AI Agent for Data Cleaning and Preprocessing

July 2025

- Built an AI-powered pipeline using Python, FastAPI, Streamlit, and LangChain Agents.
- Automated preprocessing of multi-source data (CSV, APIs, Databases) with hybrid rule-based + AI methods.
- Designed an interactive web UI and integrated with PostgreSQL for structured storage.

Chrome Extensions (Live on Chrome Web Store)

- Published multiple automation and productivity-focused extensions using JavaScript, HTML, CSS, and Chrome APIs.
- Focused on automation and productivity tools, deployed successfully on the Chrome Web Store.
- Successfully deployed on the Chrome Web Store, with active user adoption and regular updates.

TECHNICAL SKILLS

Languages: Python, SQL

Frameworks and Libraries: NumPy, Pandas, LangChain, Streamlit, Django, FastAPI

Tools and Platforms: Git, GitHub, Postman, VS Code, Excel, Tableau, MySQL

Soft Skills: Team Collaboration, Analytical Thinking, Problem-Solving Skills

ACHIEVEMENTS/CERTIFICATIONS

- Secured 46th position out of 1500+ teams in the Shell AI Hackathon (Hackerearth, 2025) by developing an advanced AI-based solution for Blend Property Prediction.
- Postman API Fundamentals Student Expert | [CERTIFICATE](#)
- The Bits and Bytes of Computer Networking (Coursera) | [CERTIFICATE](#)
- Data Analytics Job Simulation (Deloitte Australia, Forage) | [CERTIFICATE](#)
- Artificial Intelligence Fundamentals (IBM SkillsBuild) | [CERTIFICATE](#)