

Kunal Agarwal

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EDUCATION

Vellore Institute of Technology

October 2022 - Present

Bachelor of Technology in Computer Science and Engineering (CGPA: 7.97/10)

WORK EXPERIENCE

Software Developer Intern

February 2025 - April 2025

Sagacity Softwares Pvt. Ltd.

Pune, Remote

- Developed and deployed RESTful APIs and scalable web applications using Python, Django framework, and PostgreSQL database with 99% uptime.
- Implemented backend features including database schema optimization, API endpoint development, authentication systems, and server-side business logic.
- Maintained code quality through Git version control, code reviews, and adherence to software development best practices and maintained professional conduct while complying with confidentiality guidelines.

PROJECTS

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

May 2024 – June 2024

- Achieved 94% accuracy on COCO dataset with a Convolutional Neural Network (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 | Python, LangChain, OpenAI, ChromaDB, Streamlit

November 2025

- Engineered a Retrieval-Augmented Generation (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

Artificial Intelligence (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 Development | JavaScript, HTML, CSS, Chrome APIs

- Developed and published multiple browser extensions with 100+ active users on Chrome Web Store.
- Built automation tools that improved user productivity by streamlining repetitive tasks.
- Implemented Chrome APIs for bookmark management, tab organization, and workflow automation.

TECHNICAL SKILLS

Programming 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](#)