

# ASHISH KUMAR

LinkedIn: ashishkumar200 , GitHub: ashishkumar246

Phone: +91 9310601402 | Email: ashishkumar02361@gmail.com

Portfolio : <https://ashish-techfolio.vercel.app/>

## PROFILE

Python Developer with hands-on experience in FastAPI, Flask, PostgreSQL, RESTful APIs, and API Integration. Skilled in building scalable backend applications, CRUD systems, authentication workflows, and AI-powered applications using NLP, embeddings, vector databases, and RAG architecture.

## TECHNICAL SKILLS

**Languages:** Python, SQL

**Frameworks:** FastAPI , Flask

**Databases:** PostgreSQL

**Web Technologies:** HTML, CSS(basic)

**Tools & Platforms:** Git, Github, VS Code, pgAdmin, Postman

## AI/GenAI Skills

Rag Architecture

Semantic Search & Embeddings

Chunking & Vector Databases (ChromaDB)

LLM Integration (Ollama/Phi3)

Prompt Engineering

**Tools:** Ollama, ChromaDB, Hugging Face

## PROJECTS

### FastAPI CRUD Service (PostgreSQL)

GitHub: [Postgres Data Manager](#) | Tech: Python , PostgreSQL, FastAPI

- Developed RESTful APIs using FastAPI for CRUD operations, request validation, authentication workflows, and PostgreSQL data persistence.
- Integrated PostgreSQL using psycopg2 for data persistence.
- Implemented partial updates using Pydantic models and JWT Authentication.
- Tested APIs via Swagger UI and handled validation/errors.

### Harvard Nutrition AI RAG Assistant

GitHub: [Nutrition-AI-RAG](#) | Tech: FastAPI, ChromaDB, Ollama, Sentence-Transformers, Python

- Developed a RAG that answers nutrition and health-related questions from Harvard research PDF .
- Implemented PDF extraction, chunking, embeddings, and vector search using ChromaDB.
- Integrated Ollama (Phi3) with FastAPI APIs to answer user questions using relevant chunks retrieved from the document.

## PROFESSIONAL EXPERIENCE

### Velocis, January 2026(Python Apprentice / Software Developer) — Present

- Assisted in workflow coordination and process-oriented tasks across operational activities.
- Participated in Python-based automation and backend-related learning initiatives.
- Supported testing, documentation, and structured execution of assigned tasks.
- Gained exposure to reporting workflows, professional communication, and team collaboration.

## INTERNSHIP EXPERIENCE

Google for Developers — AI/ML Virtual Internship

Palo Alto Networks — Cybersecurity Intern

NASA International Space Apps Challenge — Participant

## Additional Technical & Community Experience

- Managed telegram chats as a mod by deploying bots.
- 60,000+ users in chat .
- Automation.
- Deployed bot-based alerts, securing users from phishing links and moderation workflows.

## Education

Bachelor of Technology (Computer Science & Engineering), Galgotias University, Greater Noida (CGPA: 7.67/10)