

AMAN PANT

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Generative AI & Machine Learning Enthusiast | Python Developer

PROFILE SUMMARY

Innovative and dedicated **Generative AI & Machine Learning Enthusiast** skilled in developing intelligent solutions using **Python, LLMs, and Agentic AI systems**. Proficient in tools like **LangChain, LangGraph, Hugging Face, and OpenAI API** for creating AI-driven workflows. Experienced in **Prompt Engineering, RAG architectures**, and designing **multi-agent systems**. Passionate about leveraging AI technologies to build efficient and impactful applications. Actively pursuing an **AI/ML internship** opportunity to apply and enhance technical expertise.

EDUCATION

Bachelor of Computer Applications (BCA)

Sri Dev Suman Uttarakhand University

July 2023 – Present (Expected 2026)

Relevant Coursework:

Artificial Intelligence | Machine Learning | Python Programming | Database Management Systems | Data Structures and Algorithms

TECHNICAL SKILLS

Languages: Python, SQL, HTML, CSS (basic)

AI / ML Tools: NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn

Generative AI: OpenAI API, LangChain, Hugging Face, Google Gemini, Transformers, Ollama

Agentic AI: LangGraph, CrewAI, RAG Systems, Vector Databases, AI Memory Architectures

Frameworks: FastAPI, Pydantic, Asyncio, Multiprocessing, Threading

DevOps & Deployment: Docker, Docker Compose, AWS ECS/ECR, Redis, MongoDB

Other Tools: Git, GitHub, Prompt Engineering, JSON, REST APIs

PROJECTS

1. AI Chat Assistant (LangChain + OpenAI + FastAPI)

Developed an intelligent chatbot with contextual awareness using **LangChain** and **OpenAI API**.

Integrated custom prompt templates and conversational memory for dynamic, multi-turn interactions.

Deployed as an API service using **FastAPI** for scalability.

Tech Stack: Python, LangChain, OpenAI API, FastAPI

2. RAG-Based Document QA System (LangGraph + Hugging Face)

Built a **Retrieval-Augmented Generation (RAG)** system to generate context-based answers from large text documents. Implemented text chunking, embedding creation, and retrieval workflows using **LangGraph** and **FAISS**.

Tech Stack: Python, LangChain, LangGraph, Hugging Face, Docker

3. Autonomous Multi-Agent Workflow System (Agentic AI)

Created an **AI agent ecosystem** for automating research and content creation tasks. Integrated **LangGraph** with **MongoDB** checkpointing to manage memory and agent state. Enhanced performance with structured Pydantic models.

Tech Stack: LangGraph, OpenAI API, MongoDB, Pydantic

CERTIFICATIONS

- **Generative AI & Agentic AI with Python** – Udemy (*Hitesh Choudhary & Piyush Garg*) – Ongoing (Oct–Dec 2025)
- **PCEP: Certified Entry-Level Python Programmer** – *Planned 2026*
- **AWS Certified Cloud Practitioner** – *Planned 2026*

EXPERIENCE

Arc Solutions – Full Stack Web Developer Intern

May 2025 – Aug 2025 (3 Months)

- Built and maintained responsive web pages using HTML, CSS, JavaScript, and Bootstrap.
- Supported backend development with PHP and Django for API and database management.
- Collaborated in Agile workflow, version control (Git/GitHub), and testing environments.
- Transitioned focus from Web Development to Artificial Intelligence and LLM-based applications.

ACADEMIC & PERSONAL INTERESTS

AI System Design | Large Language Models | Agentic AI | Prompt Engineering | Cloud Deployment | MLOps | Automation

PORTFOLIO LINKS

GitHub: github.com/aman-ai-dev

LinkedIn: linkedin.com/in/amanpant-ai

Portfolio Website: aman-portfolio-5qi.pages.dev

Note: Currently focused on Generative AI, Agentic AI, and LLM-driven system development with Python. Open to internship and collaborative opportunities in AI research and applied ML.