

# 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

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## 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*

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## 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.

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## ACADEMIC & PERSONAL INTERESTS

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

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## PORTFOLIO LINKS

**GitHub:** [github.com/aman-ai-dev](https://github.com/aman-ai-dev)

**LinkedIn:** [linkedin.com/in/amanpant-ai](https://linkedin.com/in/amanpant-ai)

**Portfolio Website:** [aman-portfolio-5qi.pages.dev](https://aman-portfolio-5qi.pages.dev)

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**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.