

# Gaurav Vashistha

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Portfolio | LinkedIn | GitHub

## PROFESSIONAL SUMMARY

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**GenAI Engineer** with hands-on experience building AI automation workflows, multi-agent systems, backend infrastructure, and production-grade LLM applications using **Python, FastAPI, LangChain, n8n, Redis, PostgreSQL, and GCP**. Strong expertise in prompt engineering, RAG systems, workflow automation, distributed AI pipelines, and model optimization. Delivered measurable business impact by reducing manual operations by **40–70%** across catalog automation, AI orchestration, and enterprise workflow systems.

## TECHNICAL SKILLS

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**AI & Automation:** LangChain, n8n, Prompt Engineering, RAG, Multi-Agent Systems, OpenClaw, Paperclip AI, Vertex AI, Gemini, OpenAI, Sarvam AI, Pinecone, QLoRA, Unsloth, TurboQuant

**Backend & Cloud:** Python, FastAPI, Docker, GCP, Redis, PostgreSQL, REST APIs, Celery, Firebase, Linux, Git

**ML & Optimization:** PyTorch, Llama 3, Gemma, Quantization, Fine-Tuning, Edge Deployment

**Additional Tools:** FFmpeg, FFprobe, OpenCV, SIT, SEO Automation

**Certifications:** Qualcomm AI Upskilling (2026), Microsoft Learn: Create Agents in Copilot Studio (2025)

## PROFESSIONAL EXPERIENCE

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### Bhishaj Technologies

Oct 2025 – Present

*Independent GenAI Engineer & AI Automation Consultant*

*Remote*

- Built and deployed **Niyanta**, an AI automation platform on GCP using OpenClaw and Paperclip AI for workflow orchestration, internal task management, and delivery automation.
- Engineered multi-agent runtimes and approval systems reducing administrative overhead by **70%** using strict Human-in-the-Loop architecture for security and operational reliability.
- Managed production backend infrastructure using Docker, PostgreSQL, Redis, and FastAPI for scalable AI workflows and fault-tolerant delivery systems.
- Built and deployed the official digital storefront for House of Nutrition, transforming offline retail operations into a structured online commerce workflow.
- Managed deployment, licensing, and product ownership of AI systems including Vidhik AI, Continuity, and continuity-stitch under registered MSME entity Bhishaj Technologies.

### Creative Lipi Webtech Pvt. Ltd. (Client: IndiaMART)

Feb 2025 – Jul 2025

*Project Delivery Engineer (Official Title: Project Delivery Executive)*

*Noida, UP*

- Automated end-to-end product catalog lifecycle using Gemini and OpenAI prompt workflows, reducing manual content operations by **40%**.
- Standardized technical data for **200+ product catalogs** using AI-driven validation, improving indexing quality and schema compliance for marketplace delivery.
- Executed System Integration Testing (SIT) for AI-integrated delivery platforms and resolved critical defects to maintain **99% production uptime**.

## FEATURED PROJECTS

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### Project Continuity | *FastAPI, Redis, Vertex AI* | GitHub | HF

- Built a distributed SaaS platform for AI-driven video scene generation using FastAPI and Redis-based producer-consumer architecture.

### MerchFlow AI | *FastAPI, Pinecone RAG, Llama 3* | GitHub | HF

- Built an autonomous e-commerce listing engine converting raw product images into SEO-optimized listings using Gemini Vision, Llama models, Pinecone RAG, and n8n workflows.

### Anvesha AI | *FastAPI, Next.js, Sarvam AI* | GitHub | HF

- Built a sovereign Indian intelligence engine generating citation-rich “Sutra” reports using Sarvam 30B (Router) and Sarvam 105B (Synthesizer).
- Integrated custom SearxNG prioritizing **.gov.in** indexing with multimodal STT/TTS support and privacy-first architecture for research-grade outputs.

### Vidhik AI | *Llama 3.2, QLoRA, PyTorch* | HF

- Fine-tuned a legal Small Language Model for Indian legal drafting and MSME compliance using QLoRA + Unsloth, reducing training memory by **70%**.
- Implemented TurboQuant 4-bit KV-cache compression for large-context inference on low-resource local hardware.

## OPEN SOURCE

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### continuity-stitch | *Python, FFmpeg* | GitHub | PyPI

- Published a Python utility for frame-accurate 1080p/24fps video normalization using FFmpeg and FFprobe, powering Continuity’s GPU worker nodes.

## EDUCATION

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**ABESIT (AKTU)** — B.Tech in Computer Science & Artificial Intelligence

2021 – 2024

**Lovely Professional University (LPU)** — Diploma in Computer Science & Engineering

2018 – 2021