Gaurav Vashistha

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SUMMARY

Agentic AI Engineer and Python Developer specializing in building autonomous multi-agent workflows and event-driven architectures. Proven experience architecting enterprise-grade solutions using **FastAPI**, **Llama 3.2 Vision**, and **Pinecone (RAG)**. Skilled in translating business requirements into scalable, containerized applications using Docker and n8n. Open-source contributor focused on reducing latency in large language model pipelines.

TECHNICAL SKILLS

GenAI & LLMs: Multi-Agent Systems, RAG, Llama 3.2 Vision, Gemini 1.5 Flash, Groq, Prompt Engineering, OpenAI API, Vector Embeddings.

Backend: Python (AsyncIO), FastAPI, RESTful APIs, SQL, Pandas, NumPy, JSON.

DevOps & Tools: Docker, n8n (Workflow Automation), Git/GitHub, Hugging Face Spaces, CI/CD Concepts, Linux.

Libraries: LangChain (Concepts), SpeechRecognition, gTTS, PyAudio, PyTorch (Foundations).

FEATURED PROJECTS

MerchFlow AI | Live Demo | GitHub | *FastAPI, Llama 3.2, Groq, Pinecone*

- Architected a **sequential multi-agent system** (Visual, Memory, Writer agents) to automate the conversion of unstructured product images into SEO-optimized e-commerce listings.
- Engineered the backend using **FastAPI** to orchestrate asynchronous agent communication, ensuring non-blocking execution and high throughput for image analysis.
- Implemented a **RAG pipeline** using **Pinecone** to vectorize visual tags and retrieve high-performing SEO keywords, significantly reducing hallucination rates in product descriptions.
- Integrated **Llama 3.2 Vision via Groq Cloud**, achieving ultra-low latency inference for visual attribute extraction (color, material, style).
- Deployed the application on **Hugging Face Spaces** using a persistent **Docker** container environment for zero-config accessibility.
- Designed downstream automation triggers using **n8n webhooks** to sync generated content directly to external platforms like Shopify.

Jarvis - Voice Assistant | GitHub | *Python, OpenAI API, SpeechRecognition*

- Developed a voice-activated virtual assistant integrating **OpenAI's GPT-3.5 Turbo** for Natural Language Processing and **gTTS** for text-to-speech synthesis.
- Implemented real-time data retrieval using **NewsAPI** to deliver live headlines and engineered ambient noise adjustment algorithms to improve speech recognition accuracy.
- Built automated web navigation modules using Python scripts to streamline information retrieval across Google and YouTube.

EXPERIENCE

Creative Lipi (Vendor for IndiaMART)   Jan 2025 – Sep 2025
Digital Catalog Specialist (AI Automation Focus)   *Noida, UP*

- Engineered prompt engineering workflows using **Gemini** and **ChatGPT** to automate the generation of SEO-optimized content, reducing manual processing time by **40%**.
- Managed data validation protocols for **200+ product catalogs**, ensuring strict adherence to schema specifications and logical data structuring.
- Selected as a Technical Beta Tester for client-facing integration tools; executed system integration testing (SIT) and logged critical defects to ensure **99% system uptime**.
- Optimized organic visibility for 27+ clients monthly by implementing strategic keyword logic within the catalog data lifecycle.

EDUCATION

ABESIT (AKTU)   Ghaziabad, UP
B.Tech in Computer Science and Artificial Intelligence   *2021 – 2024*
Lovely Professional University   Punjab
Diploma in Computer Science and Engineering   *2018 – 2021*

CERTIFICATIONS

Microsoft Learn Challenge: Create agents in Microsoft Copilot Studio (Jan 2025)

Udemy: The Complete Flutter Development Bootcamp with Dart (Oct 2024)

Google/Coursera: Technical Support Fundamentals (Jan 2020)