

Kartikey Singh

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SUMMARY

Results-driven **Software Engineer** with 4+ years of experience in **Python, Django**, and backend system optimization, now specializing in **Generative AI (GenAI)** applications. Skilled in designing and deploying intelligent automation systems powered by LLMs and vector databases. Proven ability to build **end-to-end GenAI solutions**, including PDF/chat-based assistants, knowledge retrieval systems, and self-healing automation pipelines. Experienced in **large-scale data processing (1M+ pages daily)**, **API development**, and **web scraping** across domains like real estate, healthcare, and logistics. Passionate about leveraging GenAI to create scalable, human-like reasoning systems that enhance business efficiency and decision-making.

Skills

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|---------------------------------------|-------------------------------|--------------------------------------|
| • Python Javascript | • GenAI LLM OpenAI | • PostgreSQL MySQL Sqlite |
| • Django Flask | • Selenium Scrapy | • MongoDB Elasticsearch |
| • LangChain Agentic AI RAG | • Numpy Pandas | • AWS GCP Linux |

EXPERIENCE

Software Developer – University Living

March 2024 – Present

- **AI Chatbot for Accommodation Booking** : Built an agentic AI chatbot leveraging **LangGraph** and **LangChain**, enabling autonomous reasoning and multi-step decision-making. Developed using Python and OpenAI, and integrated with FastAPI, SQLite, Redis, and Elasticsearch. Deployed on **GCP** for scalable, secure cloud infrastructure. Achieved a **40% reduction** in manual support workload through **24/7 real-time**, NLP-driven user engagement.
- **AI Enabled Price Automation**: Designed and deployed robust Django Application leveraging Selenium, Redis, PostgreSQL, MongoDB, and PyAutoGUI. Integrated **Google Gemini** to build an intelligent automation system that adapts scrapers to changes in CSS/XPath, reducing manual maintenance. Automate price updates for 10,000+ properties.Optimized large-scale web scraping pipeline, extracting 1Million+ pages of data daily using multithreading, achieving high throughput while reducing infrastructure costs.
- Collaborated across React/Next.js frontend and Django backend to deliver dynamic user-facing dashboards.

Python Developer – Sinaxis Enterprises (Indian Navy)

June 2023 – March 2024

- Developed full-stack applications with Angular, Django, Docker, and PostgreSQL.
- Created modular components from scratch, resolving mission-critical issues for automated system operations.
- Utilized Docker for containerizing applications, improving deployment speed and resource efficiency.

Support Engineer – Delhivery

March 2023 – June 2023

- Conducted root cause analysis and troubleshooting for daily operations using Python shell scripting.
- Optimized data retrieval processes through advanced SQL queries.

Python Developer – Sampark Software (Metropolis Healthcare)

February 2022 - February 2023,

- Managed and optimized a Django and AngularJS-based application for a healthcare client, reducing function execution times from 7 hours to 1 minute.
- Developed complex Django APIs, resolving performance bottlenecks through optimized Django ORM and SQL queries.
- Converted Supply chain Idea's into code

Education

Bachelors In Computer Applications (BCA)

Manav Rachna international institution of research and studies • Faridabad Hariyana • 2021 • 6.4

Additional Information

Awards: Rising Star @universityLiving 2024, WoW Award @universityLivng 2024

Certificate: [Aws Certified Cloud Practitioner](#),[Advanced Python](#)

Language: Hindi, English