

# AKSHATGUPTA

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## Summary

Results-driven **Full Stack Developer** with extensive experience at **Talentica** and **NAV Backoffice**, specializing in **modernizing legacy applications**, **optimizing software systems**, and **developing scalable APIs** for seamless third-party integration. Proficient in **.NET, Python, React.js**, and databases like **SQL Server, MongoDB and PostgreSQL**, with expertise in **Docker and Kubernetes** for containerized deployments. Working on modern technologies like **GenAI, Agent AI and RAG**. Adept at ensuring the stability of **microservices architectures**, conducting **stakeholder meetings**, and driving project success. Recognized with multiple **awards** for technical excellence. Currently pursuing an **M.Tech.**, focusing on **AI/ML and model building**, with a career goal to contribute to AI-driven innovation in a forward-thinking organization.

## Experience

### Software Development Engineer 3

06/2025 to Current

Talentica

Pune

- Designed and implemented a scalable **RAG** pipeline to handle and embed 20-30 million rows of legacy data, enabling efficient semantic search and context retrieval.
- Pre-processed and chunked** diverse data formats including text, images, and documents to optimize input for embedding and downstream tasks.
- Developed a robust microservice using **FastAPI** and integrated **agent-based AI tools** to orchestrate modular, multi-step AI workflows via cursor-driven execution.
- Built the **In-house AI Assistant** bot using **Python, FastAPI, LangChain** and different **agentic tools**.
- Engineered a suite of **custom AI agent tools** to support a built-in AI assistant, enabling domain-specific tasks such as content generation, summarization, and knowledge search.

### Senior Software Developer

07/2022 to 05/2025

Talentica

Pune

- Developed **UI and API** for an AI-powered assistant that enables users to query internal applications, generate customized emails, banners, and videos, and maintain conversation history with a thread feature.
- Migrated an outdated application stack from **ColdFusion and ASP.NET** to a modern **Node.js, React, and MongoDB** architecture.
- Engineered **custom GenAI solutions**, allowing users to generate emails with specific formats, UI, and images through advanced **prompt engineering**.
- Developed **unit tests for microfrontend** using **ClaudeAI**, ensuring robust and reliable application performance.
- Built a multi-agent AI system using the CrewAI framework (Python) to enhance an assistant AI, automating content generation, template suggestions, and follow-up prompts based on user queries.
- Optimised **load-balancing for high-traffic client pages** (e.g., Google), reducing load times from **1.5 minutes to 40–50 seconds**, and **server utilisation from 100% to 60%**, while handling **2K+ concurrent users**.
- Managed **feature releases and issue resolution** using **Docker and Jenkins pipelines**, ensuring smooth deployment cycles.
- Led **stakeholder meetings** to gather requirements, manage expectations, and report progress, strengthening client relationships.
- Authored **detailed documentation** of user requirements and system definitions to support development, and project clarity.
- Collaborated with **product managers** to define project scopes, aligning technical implementation with business objectives.
- Mentored **junior engineers**, providing guidance on coding standards, best practices and career growth.
- Received multiple **awards** for outstanding contributions and performance.

### Software Developer, NAV Backoffice, Jaipur

07/2020 to 06/2022

- Developed and implemented **well-tested code** in **SQL, .NET and Node and React, Javascript** for software projects, ensuring reliability and performance.
- Collaborated with team members to **identify and resolve software bugs**, enhancing system stability.
- Analysed **user feedback** to improve software functionality and optimise performance.
- Conducted **code reviews** to maintain high-quality standards, and promote a culture of continuous improvement.
- Led **stakeholder meetings** to gather requirements, set expectations, and report on project progress, strengthening client relationships.

## Skills

- Backend:** Python, Fast API, C#, .NET Core, ASP.NET, .net core
- Frontend:** React.js, JavaScript
- Python Frameworks:** CrewAI, FastAPI, LangChain
- Databases & Monitoring Tools:** SQL Server, MongoDB, PostgreSQL, Kibana, Elastic Search
- Terraform, GitHub and Git
- Project Management & CI/CD:** Jira, Confluence, Jenkins
- AI & ML:** Knowledge of NLP, Computer Vision, Advanced Deep Learning, Reinforcement Learning and Graph Neural Networks

## Education

**M.Tech in AI-ML for Working Professionals:** AIML, BITS Pilani, Pilani, RJ

**B.Tech: Electronics and Communication,** IIIT KOTA, Kota, RJ

**12<sup>th</sup> from CBSE: Science-Maths,** SD Public School, Muzaffarnagar, UP

**Currently Ongoing**

Graduated with **8.31 CGPA**

Passed with **93.60%**