Shubham S ambavane

senior software engineer

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# Career Summary

Experienced **Lead** **Gen AI Engineer** specializing in **Generative AI, NLP, and Azure OpenAI**. Skilled in building **AI-powered solutions** using **GraphRAG, LangChain, and CREW AI**. Proficient in **AI agents, reasoning AI agents, RAG pipelines, Azure AI Search, Redis**  for scalable systems. Passionate about the latest technologies and AI-driven automation.

# Technical Skills

Gen AI | python | Nodejs | Postgres | AWS | Azure open AI services | Git Version control.

# Work Experience

Senior software engineer | Capgemini

* **Leading a team of 5 developers**, providing architectural guidance and driving **core R&D** on the latest AI advancements.
* Designed and implemented **Gen AI architecture**, integrating **GraphRAG, RAG, Azure OpenAI, LangChain, CREW AI, Azure O1 Reasoning Model**, and **Azure AI Foundry** for configuring and managing models.
* Developed **AI agents with reasoning capabilities** for dynamic decision-making and intelligent automation.
* Engineered **Agentic Flows** to enable **multi-step reasoning, autonomous task execution**, and **adaptive decision-making.**
* Applied advanced **NLP techniques**, including **embeddings, tokenization**, and **entity recognition**, to enhance AI-driven solutions.
* Utilized **Azure OpenAI services** for **model deployments,Vector storage,Blob storage,Redis cache** to optimize performance.
* Developed **AI-powered assistants** for various **business use cases**.
* Optimized RAG pipelines with **Azure AI Search, Blob Storage,** and **embedding models** for enhanced accuracy.
* Built and deployed **Python** and **Node.js**-based AI solutions with **Redis** and **vector databases.**
* Containerized AI applications with **Docker** for scalable deployment.

Software engineer | Capgemini

* Developed **scalable REST APIs** using **Node.js, Express.js, and Sequelize ORM** with PostgreSQL.
* Integrated **AWS services** like **Cognito, SNS, and SES** for authentication and notifications.
* Optimized **code complexity** and improved performance through efficient **database queries** and **caching mechanisms**.
* Implemented **unit test cases** using **Jest** to ensure code reliability and maintainability.
* **Leveraged Gen AI tools** to automate tasks, reducing **manual effort by 40%**.

# PERSONAL PROJECTS

* Developed **Market Analysis & Strategy Builder** solutions using **CREW AI agents with Node.js and Python**, focusing on **fundamental and technical analysis**.

# Education and Certification

Bachelor’s degree | MGMCET, Mumbai University 2020

AWS Cloud Practitioner 2022