

Harshit Kavathia

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"STEM Eligible"

EDUCATION

University of Maryland, Robert H. Smith School of Business

College Park, MD, USA

MS in Information Systems, GPA - 3.7

Aug, 2023 – Dec, 2024

- Relevant Coursework: Database Management Systems, Harnessing AI in Business, Predictive Analytics, Enterprise Cloud Computing and Big Data, Causal Inference and A/B Testing

- Club and Activities: VP of Administration, Smith Masters Information Systems Association (SMISA)

Nirma University, Institute of Technology

Ahmedabad, Gujarat, India

B.-Tech in Electrical Engineering, *Minor Specialization in Finance*

Sept, 2016 - June, 2020

PROJECT EXPERIENCE

GenAI-Driven SQL Query Chatbot (*To redefine database interaction using Generative AI, enabling seamless result retrieval*)

- Built an **AI chatbot** using **Google PaLM LLM** and **Langchain** in python to convert **natural language prompts into SQL queries**, further enabling data extraction from MySQL.
- Leveraged **prompt engineering** with **Hugging Face** and **ChromaDB** to enhance the chatbot's ability to handle complex queries.
- Presented this project to 70+ business owners, showcasing AI's transformative potential and providing **strategic consulting** on AI integration.

Personal AI Chatbot (*To make an AI version of myself that talks about me*)

- Designed a Generative AI chatbot that provides various professional and academic information about me, using **Gemini 1.0 Pro LLM**.
- Processed and stored 10,000+ lines of document data using **recursive text-splitting**, **embeddings** and **FAISS vector database**.
- Developed a **React-based UI** to enhance user experience, strengthening personal branding through **innovative AI application**.

WORK EXPERIENCE

Software Developer, Hughes Network Systems (Smith Consulting Program)

May, 2024 – Present

- Spearheaded **client-facing** requirement gathering sessions, translating **business challenges into technical solutions**.
- Automated order processing with a **Python backend** on GCP VM, reducing manual effort by 100 hours/month via **RESTful microservices**.
- Integrated **serverless architecture** by configuring Google Cloud Functions for event-driven data management, streamlining operations between databases and backend services.

Consultant, Arcstratta (Impact Consulting Fellowship)

Sept, 2023 – Feb, 2024

- Drove **digital transformation** for a consulting firm by crafting a **data-driven marketing growth strategy**, resulting in a 50% projected increase in client engagement.
- Advised on IT infrastructure improvements, positioning the **client** for **long-term success** in federal markets.

Infosys

Jan, 2021 – July, 2023

Senior Java Developer

- Led the full **software development lifecycle** to deliver **java applications** on **azure cloud** for a client in **finance** domain.
- Developed authentication mechanisms using Azure Active Directory, leveraging **Object Oriented Programming concepts** to enhance security and reduce authentication time by 40%.
- Collaborated with client teams in **service-oriented environment** to resolve issues and ensured smooth delivery in production.

Java Developer

- Streamlined application migration to Azure Cloud, reducing build times by 50% through Spring Framework adoption and CI/CD automation.
- Collaborated with DevOps and testing team in **agile environment** for **issue analysis**, participating in daily scrum meetings to brainstorm solutions and demonstrate to client.

SKILLS

Technical Skills: Python, Java, SQL, R, Machine Learning, Generative AI, Predictive Analytics, A/B Testing

Database and Tools: Postman, Git, Tableau, AWS, Azure, GCP, Vector DB, PostgreSQL, Langchain, PySpark