Sameep Sawant

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Available: May - Dec 2026 for Internship

EDUCATION

Northeastern University   Boston, MA
Khoury College of Computer Sciences, MS in Artificial Intelligence   *Expected May 2027*
Relevant Coursework: Algorithms, Foundation of AI

Mumbai University   Mumbai, India
Vidyalankar Institute of Technology, BE in Information Technology   *May 2023*
Relevant Coursework: Data Structures, DBMS, Computer Networks, Artificial Intelligence

EXPERIENCE

Elastik Teams   Pune, India
Software Development Engineer   *July 2023 – July 2025*

- Architected an intelligent **Supervisor AI agent** using **LangGraph** to dynamically choose between RAG and web search agents based on query intent, **improving response relevance** and **reducing ChatGPT token** usage.
- Built an advanced **training mechanism** with **data loaders** using **LangChain**, supporting multi-format inputs **(PDF, Word, PPT, TXT, MP3, YouTube)** to expand data sources and increase effective context for the RAG system.
- Integrated **LangSmith** into an existing RAG pipeline to monitor **response latency**, **token usage**, and **cost** across agents, improving system observability and debugging.
- Implemented a hybrid **SQL Chain + SQL Agent** using **LangChain SQLDatabaseToolkit** to translate natural-language sentences into SQL queries, improving query execution reliability and SQL generation accuracy.
- Transformed a **manual data-entry** page into an **automated bulk upload** system, enabling large dataset imports directly to the database and **improving data-entry speed** and **efficiency** by 20%.
- Addressed a critical defect in the client's upload system that was causing duplicate uploads and data mismatches; optimized validation and synchronization mechanisms, **achieving less redundancy** and **higher accuracy**.
- Developed and integrated client-specific enhancements for **Aptify Web's Kendo Editor** (**cut, copy, paste, undo, redo**), improving editing performance by 10%, while reporting **2 core bugs** that were officially resolved by the Kendo team.

PROJECTS

Amazon Review Sentiment Analyzer | *FastAPI, Python, LangChain, LangSmith, LLMs*   Dec 2025 – Present
- Built a FastAPI backend to process e-commerce product reviews and generate AI-based summaries, sentiment insights, and key pros/cons via structured REST APIs.
- Implemented LLM pipelines using LangChain and leveraged LangSmith to monitor response latency, token usage, and inference cost.

Mood-Based Music Recommendation System | *Python, PyTorch, Librosa*   Oct 2025 – Dec 2025
- Built a music mood recognition pipeline by preprocessing audio and training a regression model to predict continuous arousal–valence emotion embeddings.
- Integrated mood embeddings with genre and instrument probability vectors to compute cosine-similarity-based Top-K song recommendations in a modular multi-model system.

Workify - Project Management Tool | *Next.js, Typescript, TailwindCSS, Supabase, Prisma, Socket.io*
- Designed a collaborative task manager with drag-and-drop interface, real-time socket updates, and calendar-based deadline tracking, improving workflow organization by 20%.
- Optimized database performance using Prisma ORM, simplifying query handling and accelerating development speed.

TECHNICAL SKILLS

Programming: JavaScript, Python, HTML, CSS, TypeScript
Frameworks: React, Next.js, Redux, Express.js, Node.js, Tailwind CSS, PyTorch
Databases & Cloud: MongoDB, Firebase, Supabase, Prisma, Sequelize, Pinecone, Azure
AI/ML Tools: LangChain, LangSmith, LangGraph
Version Control & DevOps: Git, GitHub, Bitbucket, Docker