

Aayush Upadhyay

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Education

SRM Institute of Science and Technology

B.Tech, Computer Science & Engineering (AI/ML)

Chennai, India

Aug 2022 - May 2026

Technical Skills

Languages and Web: Java, Python, SQL, HTML5, CSS3

Backend and APIs: Spring Boot, REST APIs, FastAPI, Flask

Databases: PostgreSQL, MySQL

Messaging and Infrastructure: Apache Kafka, Docker

Testing and Tools: JUnit, pytest, Git, GitHub, GitHub Copilot

Concepts: OOP, Data Structures & Algorithms, DBMS, Multithreading, Transactions, Exception Handling

Experience

Data Analyst Intern, Bluestock Fintech (Remote)

Apr 2026 - Jun 2026

- Wrote a Python ETL pipeline that validated and loaded 564,160 records into a database with no post-load failures.
- Checked source records to trace ingestion failures and added validation and error handling to the pipeline.

Projects

JobFlowQ - Job Queue

GitHub

Java 17, Spring Boot, Kafka, Docker

- Built REST APIs to submit, inspect, and cancel jobs, with retry limits and a dead-letter state for failed jobs.
- Published job lifecycle events to Kafka using the job ID as the message key, and exposed queue metrics and Swagger API docs.
- Configured Docker Compose to start the database and Kafka before the app. Wrote 11 unit tests for job services, retry handling, and Kafka event publishing.

EvalOps - LLM Tracing & Evaluation Toolkit

GitHub

Python, FastAPI, RAGAS, Streamlit, pytest

- Built a Python SDK to record LLM prompts, responses, and latency, with support for supplied token counts and retrieved context.
- Created a FastAPI service to store traces in a database and run RAGAS faithfulness and answer-relevancy checks in background tasks.
- Built a Streamlit dashboard to inspect traces and scores. Wrote 52 tests covering the API, evaluator, and SDK.

NEXUS - Document Study Assistant

GitHub

Python, Flask, LangChain, FAISS, Groq

- Built a browser-based assistant with Flask APIs to answer questions using content from PDFs, audio, and video.
- Split documents into chunks and indexed sentence-transformer embeddings with FAISS. Reused a cached index when source files were unchanged.
- Streamed answers with Server-Sent Events and source excerpts; added review reminders and a topic tracker.

Leadership

Engineering Team Lead, Team Envision, Aaruush

Aug 2023 - May 2024

- Led 15+ student engineers at SRM Tech Fest, organizing sprint planning and code reviews before Git merges.

Certifications

Oracle Database SQL Certified Specialist | AWS Academy Machine Learning Foundations | Oracle Cloud Infrastructure 2024 AI Foundations Associate