# SOUVIK KARMAKAR

souvik.dev07@gmail.com | 938212857 | Mejia

**GitHub** | **Linkedin** | **Portfolio**

## EDUCATION

**TDB College**
Computer Science B.SC
*CGPA: 7.84*

Raniganj
2022 - 2025

**Raniganj high school**
Science 12
*Percentage: 84.4%*

Raniganj
2021 - 2022

## SKILLS

| | |
|---|---|
| Programming Languages: | C++, Python, Java |
| Libraries/Frameworks: | Nextjs, Django, SpringBoot, Langraph, Langchain, Pandas, sk-learn |
| Tools / Platforms: | Vercel, Github, Vscode, LovableAI, ChatGPT |
| Databases: | Mongodb, Firebase, Postgress, Vector DB |

## PROJECTS / OPEN-SOURCE

**Content Generator | Link**                          *NextJs, Langchain, QdrantDB, MongoDB, Cleark*

It was a SaaS application that helps users generate high-quality text (blog posts, marketing copy, social media) using AI. Users could input a topic or keywords, select tone and style, and receive AIgenerated drafts. Include features like revision history, SEO scoring.

**E-commerce recommendation system | Link**          *FastAPI, Qwik.js, GraphQL, Qdrant DB, MongoDB*

A prototype e-commerce site with a production-style recommendation system that blends collaborative filtering with semantic content embeddings and RAG-style retrieval. When a user views a product, the system uses user-item interaction data plus vector similarity over product descriptions/category/title to surface complementary and contextually relevant items. The result is a more personalized shopping experience that increases relevance of suggestions and can boost conversions and average order value.

**Chat Insite | Link**                                        *TypeScript, JavaScript, Nextjs*

A tool to import WhatsApp group chat backups with advanced filters for username, date, and time, allowing efficient analysis and extraction of specific conversations from JSON data.

**AI Code Review Assistant | Link**                              *JavaScript, GitHub Actions*

AI Code Reviewer is a GitHub Action that automatically reviews pull requests using a large language model (LLM) (e.g. OpenAI, or any other provider via a BASE_URL). It analyzes the diffs in a PR, detects bugs/style issues/improvements, and posts inline comments in the pull request. Its like having a senior reviewer that fires whenever a PR is created or updated.

**Json to Mysql | Link**                                *Tailwind CSS, TypeScript, HTML,Reactjs*

Created a utility tool that converts JSON data into MySQL table format. It supports various data types, handles nested JSON structures, and ensures accurate mapping to MySQL schemas.

**Q&A Platform | Link**                          *NextJs, Langchain, Redis, QdrantDB, MongoDB*

It is a intelligent Q&A chat system that ingests a companys documents (manuals, wikis, reports) and answers user queries. Use a retrieval-augmented generation (RAG) pipeline to fetch relevant context from the knowledge basedatabricks.com. For example, the system can return answers grounded in up-to-date company data rather than generic model knowledge.

## CERTIFICATIONS

- Certification in Web Development Project Completion - **Srss solution**