Sougata Saha

Paschim Medinipur |Ph: 6296824383 |[Email](#) |[GitHub](#) |[LinkedIn](#) |[Leetcode](#)|[Geeksforgeeks](#)|[Portfolio](#)

PROFILE SUMMARY

Adaptable web developer with a strong foundation in **full-stack development** and **problem-solving**. Passionate about building **scalable applications** and optimizing **user experiences** using **modern technologies**. **Quick learner** who thrives in **collaborative environments** and enjoys tackling **real-world challenges**.

EDUCATION

Jadavpur University — Salt Lake Bypass, Sector 3, Bidhannagar, Kolkata

B.E in Information Technology — *2027*

- SGPA up to 4th semester: **8.44**.
- Relevant Courses: Database Management Systems (DBMS), Data Structures and Algorithms (DSA), Object-Oriented Programming (OOP), Computer Networks (CN), Software Engineering, Object-Oriented Systems (OOS).

Higher Secondary Education (Class 12) — Ramakrishna Mission VidyaBhawan, Midnapore

Percentage: 95.00%

PROJECTS

ReadWise — [view live](#)

- Built a **Chat with PDF application** using **FastAPI** and **LangChain**, enabling users to query documents via natural language.
- Implemented **PDF embeddings** with **semantic and keyword search** to retrieve relevant context for LLM-based responses.
- Developed a **React frontend** with an interactive chat interface and implemented **JWT-based authentication** to secure backend APIs.
- **Tech Stack:** LangChain, FastAPI, PostgreSQL, React, JWT.

AI-Powered Quiz Application — [view live](#)

- Developed a robust backend using **Express.js** and **Node.js** to handle quiz generation, user input, and API communication.
- Integrated **Gemini 2.5 Flash API** for dynamic MCQ generation using advanced prompt engineering techniques.
- Deployed backend on **Render** with performance optimizations for fast response and low latency.
- Built a responsive frontend with **React.js** and **Tailwind CSS**, with primary focus on backend architecture.
- Ensured seamless communication between client and server, handling **JSON responses** and **API routing** securely.
- **Tech Stack:** React.js, Express.js, Node.js, Tailwind CSS, Gemini API.

SKILLS SUMMARY

Programming Languages: C/C++, java,javascript,Python
Frontend Development: React,Tailwindcss,Shadcn UI
Backend Development: Express.js,Node.js,FastApi
Database Management: MySQL,PosrgreSql,Mongodb
Tools: Git, GitHub
OS and IDE: Linux,Visual Studio Code

ACHIEVEMENTS

- Solved **800+ problems** on **LeetCode**, strengthening problem-solving and algorithmic thinking.
- Ranked in the **Top 18%** of **LeetCode** users globally.
- Ranked **2750** in **LeetCode Weekly Contest 482**
- Selected in **SIH Hackathons** at the **college level**, collaborating on innovative solutions.