RUPDIP DAS

P: +91 7085891084 | **dasrupdip04@gmail.com** | **Portfolio Website** | **My Github** | **Linkedin**

PROFILE

Full Stack Developer | GenAI Engineer | Full Stack GenAI Developer skilled in integrating AI into web apps, building RAG systems, and creating memory-aware agentic AI tools. Experienced in delivering scalable, real-world solutions using React, Node.js, Express, Mongoose and modern AI frameworks like LangChain, Neo4j, Qdrant, RAG pipelines etc.

SKILLS AND TECHNOLOGIES

Languages: Python, JavaScript, C++, C, Typescript
GenAI & AI Systems: LangChain, LangGraph, Hugging Face Transformers, Memory-aware AI Agents, RAG Pipelines, Tool Binding, LLM as Judge, Vector and Graph Embeddings(Qdrant, Neo4j)
Frontend: HTML, CSS, React.js, Next.js, Tailwind CSS, Bootstrap, Material UI, Responsive Design
Backend: Node.js, Express.js, MongoDB, Mongoose, REST APIs, OAuth, JWT Authentication
Additional Skills: Git, Data Structures and Algorithms, Object Oriented Programming, Problem solving

PROJECTS

Terminal-based Mini Cursor   **Demo**   **Github**

- Built a terminal-based autonomous AI agent capable of creating full-stack project structures, generating code, and managing files and folders dynamically.
- Integrated Gemini Flash 2-0 LLM with OpenAI SDK and tool calling to run commands on terminal and read, write file
- Tools: Python, OpenAI SDK (Gemini API), OS & FileSystem Modules, JSON Handling, Prompt Engineering

AI Code Reviewer   **Demo**   **Github**

- Developed a full-stack code review application that uses Gemini LLM to analyze and provide feedback on user's code.
- Created a responsive React Frontend for real time code submission and Express backend to processs the request to LLM
- Tools: React.js, Vite, Tailwind CSS, Node.js, Express.js, Express Router, Gemini LLM, JSON & Prompt Handling

Advanced PDF RAG System   **Demo**   **Github**

- Built a RAG system that retrieves data from PDFs and answers questions using LLM integration.
- Implemented parallel fan-out queries, step-back prompting, and reciprocal rank fusion for enhanced results.
- Used Qdrant DB for vector storage and Neo4j for memory management and graph-based knowledge retrieval.
- **Tools:** Python, Qdrant, Langchain, Gemini, Parallel Query Fan-Out, Step-Back Prompting, Reciprocal Rank Fusion

Markdown Parser   **Live**   **Github**

- Developed a markdown parser in React.js that converts markdown syntax into rendered HTML elements in real-time.
- Built a responsive, clean editor interface using Tailwind CSS and Vite for fast performance.
- **Tools:** React.js, Tailwind CSS, Vite, JavaScript

Currency Exchange App   **Live**   **Github**

- Made a real-time currency exchange platform in React that uses an API to fetch live exchange rates.
- Created a responsive Frontend that allows to select currencies and convert amounts seamlessly with real-time data.
- **Tools:** React.js, API Integration, Tailwind CSS, Responsive Design, JavaScript

Injury Tracker   **Live**   **Github**

- Made an app where users mark injuries on a human body diagram, provide descriptions, and select gender.
- Enabled dynamic pointer placement with form inputs, real-time injury list rendering, and simulated backend submission.
- Tools: React.js, TypeScript, HTML, CSS, Tailwind CSS

EDUCATION

JADAVPUR UNIVERSITY - Kolkata, West Bengal
Bachelor of Engineering - Electronics and Telecommunication Engineering   Expected Aug 2027

ACADEMIC EXCELLENCES

WBJEE 2023 - Rank 442 |_____JEE MAINS 2023 - 98.5%ile___|_____JEE ADVANCED 2023 - AIR 13k