

SAGNIK DEY

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Sagnik-Dey

Euphoric-Coder

TECHNICAL SKILLS

Languages: C, C++, HTML, CSS, JavaScript, TypeScript, Java, Python

Technologies/Frameworks: React.js, Express.js, Node.js Bootstrap, Tailwind CSS, Vite, Next.js

Database: MongoDB, MySQL, SQLite, PostgreSQL

Deployment: Vercel, Netlify, Render

PROJECTS

SpendWise - An Expense Tracker & AI Financial Advisor App | ([GitHub](#)) ([Live Link](#)) **Nov 2024**

- **Tech Stack:** Next.js, JavaScript, Tailwind CSS, LangChain, Groq, Clerk Authentication, Drizzle ORM, NeonDB (PostgreSQL), ShadCN UI, Recharts
- **Developed** a **comprehensive expense tracker**, allowing users to *input income, expenses, and budgets*, improving financial awareness by **40%**.
- **Implemented** budget tracking and visualization with **Recharts**, featuring interactive **summary cards** (e.g., Budget, Expense, Income, Debt) to monitor key metrics and identify **overspending trends by 25%**.
- **Designed** a *responsive and intuitive UI* with **Tailwind CSS** and **ShadCN UI**, ensuring seamless navigation across **devices of all sizes**.
- **Optimized** database performance with **Drizzle ORM** and **NeonDB (PostgreSQL)**, reducing data retrieval time by **50%** for a smoother UX.
- **Incorporated** **LangChain** and **Groq API** to provide **personalized financial advice**, reducing manual calculations by **30%**

ColdConnect - Automated Cold Email Generator | ([GitHub](#)) ([Live Link](#)) **Sep 2024**

- **Tech Stack:** Vite, React, TypeScript, ShadCN UI, FastAPI, Python, Llama 3.1, LangChain, ChromaDB, Groq
- **Constructed** an **AI-driven tool** to generate **resume tailored Cold E-Mails**, **increasing** email outreach efficiency by **40%**.
- **Engineered** a responsive & intuitive **Front-End** using **Vite, React, TypeScript, and ShadCN UI**, enabling **seamless User-Friendly Interface**.
- **Built** a robust **Back-End** with **FastAPI** and **Python**, increasing **efficient processing** of *Career Portal Links & E-Mail* generation by **20%**.
- **Implemented** **LangChain** to extract **job descriptions & skills** from **career portals**, achieving **90%** accuracy in **matching job requirements**.
- **Utilized** **ChromaDB** for semantic search to **retrieve** relevant projects from **GitHub**, **reducing** manual workload by **30%**.

Code Blog - A Blog app for Coding Tutorials & Tech Insights | ([GitHub](#)) ([Live Link](#)) **Sep 2024**

- **Tech Stack:** Next.js, JavaScript, Remark, Rehype ShadCN UI, Tailwind CSS (with Tailwind Typography)
- **Deployed** a **Markdown-powered Blogging App** to share coding tutorials and insights into the technology domain.
- **Programmed** a **theme-switching feature** with **smooth transitions & engaging animations**, such as a **typing effect**, **increasing** user **interactivity** by **15%**.
- **Styled** the app using **Tailwind CSS & Tailwind Typography**, incorporating **gradient backgrounds**, and visually striking **heading designs**, improving content aesthetics by **40%**.
- **Integrated** tools like **Remark & Retype** to process Markdown content, ensuring **syntax-highlighted code snippets** for **100%** clarity & readability among developers.

Calc Sketch - AI-Powered Math & Diagram Recognition App | ([GitHub](#)) ([Live Link](#)) **Oct 2024**

- **Tech Stack:** Vite, React, TypeScript, Tailwind CSS, ShadCN UI, Python, FastAPI, Gemini AI
- **Crafted** an innovative drawing and calculation app inspired by **Apple's Math Note Feature**, enabling users to sketch **math problems, equations, diagrams**, and **logical concepts** for intelligent interpretation.
- **Created** an intuitive Front-End with **Vite, React, TypeScript, ShadCN UI**, and **Tailwind CSS**, enhancing usability and delivering a seamless UX.
- **Leveraged** **Gemini AI** to accurately **analyze and interpret user-drawn content**, using **FastAPI-based Back-End**, achieving **40% faster data processing** for complex sketches and equations.

EDUCATION

Birla Institute of Technology & Science, Pilani [BITS Pilani]

2023 - 2027

Bachelor's Degree in Computer Science, GPA: 9.79 / 10.00 (2nd Semester)

CGPA: 8.51 / 10.0

- **Relevant Coursework:** Data Structures & Algorithms, Algorithm Design, Object-Oriented Programming (OOPS), Probability & Statistics