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Kolkata, West Bengal, India

SOUVIK MANDAL

Education

B. TECH IN COMPUTER SCIENCE & ENGG.
JIS College of Engineering – Kalyani, Nadia, West Bengal, IN **2024 - Present**

Skills

- *Mobile:* **Flutter**, **Dart**, **BLoC**
- *Frontend:* **React**, **Next.js**, **TypeScript**, **JavaScript**, **HTML/CSS**
- *Backend:* **Python (Flask, FastAPI)**
- *Databases:* **PostgreSQL**, **Supabase**, **Firebase**
- *AI/ML:* **NumPy**, **Sciket-Learn**, **OpenCV, Mediapipe**
- *Other:* **Git/GitHub**, **GCP**, **Vercel**

Projects

POCKET NEST – *Personal finance tracking app* *Github* | *App Link*

- Built a **Flutter**-based expense tracker with **Supabase** backend, *featuring budget management, financial goals, multi-currency support, and AI-powered insights* using **llama-70B-model (Groq API).**
- Integrated secure authentication (Google Sign-In), subscription payments via **RevenueCat SDK**, and **real-time data synchronization** across devices.
- Implemented **BLoC state management** with *clean architecture and deployed production APK with comprehensive error handling*.

AUTO ROUTINE – *Personal micro-automation assistant app* *Github*

- Developed **cross-platform app** with **Supabase** backend, featuring *routine templates, activity tracking, and resolved complex SDK compatibility issues.*
- Built *conversational AI interface* using **Google Gemini** and **flutter_bloc** for *intuitive routine creation with step-by-step guidance*.
- Engineered **timezone-aware notifications** with *5-min pre-alerts, task-time alerts, and 10 PM nightly summaries* for routine tracking.

YT STUDY MODE – *Chrome Extension* *Github*

- Chrome extension blocking *7+ YouTube distractions (Shorts, Trending, Ads, Comments, Recommendations)* while forcing Autoplay OFF and displaying only study-relevant content through **CSS and JavaScript DOM manipulation**.
- Built an overlay-based *Study Home featuring Continue Watching, Study Playlists, and Whitelisted Channels; implemented progress tracking and study time logging for eligible conten*t with persistent storage via **Chrome API**.
- Developed Exam Mode with hard-lock overlay, popup dashboard with granular controls (Hide Comments, Hide Recommendations, Daily Limit), and URL interception to *prevent navigation to distracting pages*.

More Projects and demos: GitHub **(@thisisouvik)** or **Portfolio**

Work Experience

FREELANCING – January 2026 - Present

- Designed and implemented user-centric **UI/UX solutions***, translating client requirements into clean, responsive interfaces*.
- Developed **front-end features using modern web technologies** *to deliver scalable and performance-focused applications.*

Extra-Curricular

- Competed in *10+ hackathons, advancing to finals in 4+ and building rapid prototype solutions.*
- Co-founded a *300+ member tech community*, *fostering peer learning and project collaboration*.