

Sayan Das

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EDUCATION

2024 – Present	Techno Main Salt Lake , Kolkata, India Bachelor of Technology (B.Tech) in Information Technology (CGPA: 8.42)
2024	Techno India Group Public School (CBSE) , Kolkata, India Higher Secondary (Class XII) (Percentage: 93%)
2022	B.D.M International (CBSE) , Kolkata, India Secondary (Class X) (Percentage: 92.5%)

SKILLS

Programming Languages	Python, C, JavaScript
Web Development	React, Next.js (App Router), Tailwind CSS, FastAPI
Databases & ORMs	PostgreSQL, Supabase, Prisma
AI / ML & APIs	LLM integration (Gemini, Groq), HuggingFace Transformers, REST API design, OAuth (Clerk)
Tools & Platforms	Git, GitHub, VS Code, Jupyter Notebook, Vercel, Inngest, Octokit
Soft Skills	Strong Communication, Team Collaboration, Problem-Solving

PROJECTS

TruthLens — AI-Powered Fake News Detection System [GitHub Repository](#)

Next.js, FastAPI, Groq, Supabase

A full-stack fake news detection system analysing articles, claims, screenshots, and social posts in any language, returning an explainable authenticity score backed by a Chrome extension for one-click verification.

- Built an adaptive two-path scoring engine fusing NLP, ML classification (RoBERTa, LR/TF-IDF), **Groq LLaMA-3.3-70b** semantic analysis, source-credibility lookups, and fact-verification (Wikidata, FEVER, Google Fact Check API) — all run concurrently via `asyncio.gather()`.
- Implemented multimodal screenshot/social-post analysis using a vision model for claim extraction, plus multilingual support via automatic language detection and NLLB-200 translation.
- Designed Row-Level-Security-protected per-user history, bookmarks, and a live analyzed-news feed refreshed by an **APScheduler** background job polling NewsAPI.
- Shipped a Manifest V3 **Chrome extension** (active popup + passive floating badge) reusing the same FastAPI backend for one-click in-page analysis with local result caching.

PRDBot — Autonomous PRD Enforcement Agent for GitHub [GitHub Repository](#)

Next.js, Gemini, Inngest, Supabase

An AI agent that evaluates every new GitHub issue against a team’s uploaded PRD through three sequential analysis passes and — for compliant issues — automatically generates production-ready code changes and opens a pull request, all with zero human intervention.

- Architected a three-pass AI evaluation pipeline (Drift Detection, Strategic Alignment Review, Rule Enforcement) returning structured JSON from a single **Gemini 2.5 Flash** call to avoid latency penalties.
- Built an event-driven backend with **Inngest** for durable, retry-safe background processing of GitHub

webhooks (HMAC-verified) and **Octokit** for automated comment posting and issue labelling.

- Streamed live per-agent reasoning to a multi-agent dashboard UI using **Supabase Realtime** broadcast channels.
- Modelled audit history and PRD metadata extraction (target user, scope, anti-patterns) in **Prisma**, enabling per-repository rule enforcement and full action history.
- Implemented a Code Agent that fetches relevant repository files via **Octokit**, invokes **Gemini** to generate production-ready code changes for PRD-compliant issues, and automatically opens a pull request with a cross-linked issue comment.

Sportify — Sports Management & Live Scoring Platform

 [GitHub Repository](#)

Next.js, Prisma, Clerk, Supabase

A full-stack sports management platform consolidating stat tracking, club/tournament organisation, and live ball-by-ball/event scoring for Football, Cricket, and four other sports into a single dashboard for amateur and semi-pro communities.

- Designed a multi-sport data model (**Prisma** + **PostgreSQL** on Supabase) supporting per-user, per-sport profiles with independent stat tracking and automatic stat sync on match completion.
- Built real-time live match scoring for Football (goals, cards, substitutions, penalty shootouts) and Cricket (ball-by-ball events, dismissals, extras, bowling figures) with idempotent stat-sync transactions.
- Implemented role-based club and tournament management (Admin/Host/Participant/Spectator) with automatic bracket generation and live standings.
- Integrated **Clerk Auth** with webhook-based user sync (Svix) and built a Recharts-powered dashboard with goal progress tracking and trend visualisation.

TenderX — AI Tender Evaluation Platform (CRPF Procurement)

 [GitHub Repository](#)

React, Next.js, Zustand

Frontend for a government procurement platform that lets officers review AI-extracted tender criteria, adjudicate flagged bidder cases, and export signed audit reports through a context-aware AI assistant.

- Designed a three-panel evaluation dashboard (bidder list, criterion-level verdict table, source document viewer) with a persistent AI chatbot panel scoped to tender, bidder, or cross-bidder context.
- Built a PDF.js-based document viewer with coordinate-driven highlight overlays linking AI citations directly to source evidence within two clicks.
- Implemented resumable large-file uploads (Uppy/tus) and a manual adjudication workflow with mandatory reasoning capture for audit-trail compliance.
- Used **Zustand** for isolated state slices (evaluation, chat, document viewer, adjudication) and **TanStack Query/Table** for cached, polling-driven evaluation state and virtualised bidder lists.

CURRICULAR ACTIVITIES

- Selected for the **Kolkata Zonal Round of HackArena 2.0** (2026).
- Finalist in **Geekathon Hackathon** organised by Techno Main Salt Lake.
- Solved **100+** **Competitive Programming** problems across various coding platforms.
- Participated in **Smart India Hackathon (SIH)** and other innovation-focused hackathons.
- Built projects in **Generative AI**, **Machine Learning**, and **Full-Stack Development** beyond coursework.