SANKALPA SARKAR

📞 +91-8670707887 ✉ sankalpasarkar68@gmail.com 🔗 Sankalpa Sarkar ⭘ Sankalpa Sarkar

Technical Skills

Languages and DataBases: C/C++, JavaScript, React, Node.js , Firebase, MongoDB, Python, Flask, TypeScript
Other Skills: AI/ML, Prompt Engineer, Leadership, Communication

Projects

Lexishift   **July 2024 – Ongoing**

A comprehensive one-stop solution designed to support individuals with dyslexia through accessible learning tools, consultation services, and AI-powered features.

- Developed **LexiCare**, a doctor consultation and appointment booking system, using **React (frontend), Express.js (backend), MongoDB (database), Stripe & Razorpay (payment gateways)** for seamless user experience.
- Engineered an **advanced dyslexia-friendly PDF converter**, enabling customizable font styles, spacing, and colors for improved readability.
- Engineered dynamic formatting options, enabling users to tailor **font, size, line spacing, letter spacing, and text colors** for better readability and engagement.
- Currently developing an **AI-driven learning platform**, empowering dyslexic users with personalized educational resources and interactive lessons.

Team Up   **December 2024 -– Ongoing**

A hackathon teammate-finding platform that connects developers based on skills and project needs.

- Developed using **TypeScript, React, Node.js, and Firebase** for scalable performance.
- Implemented **dynamic user profiles and search filters**, allowing users to find teammates based on expertise, interests, and availability.
- Created a **real-time group chat & connection system**, enabling effective collaboration before and during hackathons**.**

Social Pulse   **January 2025**

A **social media analytics** platform that extracts trends, insights, and visual data from social platforms, helping businesses and individuals understand engagement patterns.

- Built with **LangFlow, DataStax Astra DB, React, and Flask** to analyze social media interactions efficiently.
- Generates **data-driven visualizations** such as trend charts, user sentiment analysis, and engagement metrics.
- Implemented **customized reports** to provide deeper insights into content performance and audience behavior.

Lately   **May 2024**

An AI-powered task management and scheduling web app featuring immersive 3D animations and an intuitive UI.

- Integrated **Google Authentication via Firebase**, improving user security and onboarding by 40%.
- Designed a sleek, responsive UI using **Tailwind CSS**, ensuring smooth user interaction.
- Developed **3D animations** with **React Three Fiber & @react-three/drei**, enhancing interactivity.
- Built an intuitive **calendar-based scheduling system** for seamless task organization.

Awards & Achievements

- **Finalist - Smart Bengal Hackathon 2024** – Recognized for innovative problem-solving in **waste management system** and impactful solution.

- **Finalist - InnoFusion 1.0 (Pan India Hackathon, Kolkata)** – For developing **LexiShift**, revolutionizing accessibility for dyslexic individuals.

- **Finalist - Level Supermind Hackathon (Mumbai)** – For **Social Pulse,** showcasing AI-powered social media analytics**.**

- **3rd Place - Upskill Mafia Hackathon** – For **TeamUp,** a platform for hackathon team formation**.**

Education

Adamas University   **Aug 2023 – Sep 2027**
Bachelor of Technology in Computer Science & Engineering   *Barasat, West Bengal*