

SANKALPA SARKAR

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Technical Skills

Languages and DataBases: C/C++, JavaScript, React, Node.js, Firebase, MongoDB, Python, Flask, TypeScript

Other Skills: AI/ML, Prompt Engineer, LangFlow, TensorFlow, scikit-learn, OpenAI API, Hugging Face, NLP, Data Analysis, Leadership, Communication

Projects

Lexishift

July 2024 – Ongoing

A comprehensive **AI-driven** platform supporting individuals with dyslexia through **personalized learning tools, AI chatbots, and consultation services**.

- 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 an **AI-powered dyslexia-friendly PDF converter**, utilizing **OCR and NLP-based text formatting** for improved readability.
- 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.

- Implemented **AI-driven recommendations, matching users** with the most relevant teammates based on expertise and project compatibility.
- Built a **real-time group chat & collaboration system**, enabling seamless communication before and during hackathons.

Social Pulse

January 2025

An **AI-powered social media analytics platform** that extracts insights, trends, and engagement patterns from social media data.

- 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.

AI/ML Assignments – Innovocon Hackathon (IIT Guwahati)

January 2025

- Developed ML models for **predictive analytics** and **automated decision-making**.

Round 1 Assignment : [Click Here](#)

Round 2 Assignment : [Click Here](#)

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

Bachelor of Technology in Computer Science & Engineering

Aug 2023 – Sep 2027

Barasat, West Bengal