

SARBO SARCAR

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SUMMARY

As a research-driven science enthusiast and technology aficionado, I take a deep interest in transcending the theoretical constraints of an academic curriculum and applying learnt concepts to build practical solutions with a global outlook.

EDUCATION

Jadavpur University

Bachelor of Engineering in Information Technology. CGPA: 9.80

Relevant Coursework: Object Oriented Systems, Computer Networks, Software Engineering

Activities and Societies: Member, ACM JU Student Chapter.

Kolkata, India

Expected 2027

Indian Institute of Technology Madras

Bachelor of Science in Data Science and Applications. CGPA: 9.63

Relevant Coursework: Machine Learning, Business Data Management

Activities and Societies: Member, GDG on Campus

Remote

Expected 2027

Birla High School

AISSCE (CBSE). Percentage: 98.20

AISSE (CBSE). Percentage: 99.00

Relevant Coursework: Physics, Chemistry, Mathematics, Computer Science

Activities and Societies: Member, Robotics Club. Member, School Editorial Board

Kolkata, India

May 2023

Aug. 2021

SKILLS AND INTERESTS

Programming Languages	C, C++, Java, Python, JavaScript
Frontend Development	Vite, Tailwind CSS
Backend Development	Flask, Django, FastAPI
Database Management	MySQL, PostgreSQL
DevOps Tools	Git, Docker
OS and IDE	Linux, Visual Studio Code
Languages	English (Bilingual Proficiency), French (DELFB2 Certified)
Interests	Retrieval-Augmented Generation, Computer Vision

EXPERIENCE

Research Intern

Jadavpur University, Kolkata

Jan. 2025 – Present

- Conducted research on developing a comprehensive evaluation metric for agentic RAG applications under the supervision of Dr. Pawan Kumar Singh.
- Co-authored a paper, with two other students, currently under review at the 6th International Conference on Frontiers in Computing and Systems.
- Sarcar, S., et al. (under review). *Dynamic Contextual Enhancement for Retrieval-Augmented Generation*.

Team Leader, Smart India Hackathon

Jadavpur University, Kolkata

Sep. 2024

- Led a team of five members to secure selection in the internal hackathon.
- Developed the backend for a functional prototype of a philatelic website using the Django framework.

PROJECTS

RAGBot

Chatbot integrating dynamic knowledge sources for context-aware responses Jan. 2025 - Feb. 2025
ragbot-llm.streamlit.app

- Engineered a chatbot utilizing RAG techniques to provide accurate, context-aware interactions.
- Implemented data retrieval, preprocessing, and web scraping modules to enhance the chatbot’s knowledge base with real-time web data.
- Developed an interactive chat interface via Streamlit for user engagement.

Clipd

Minimalist clipboard application for effortless sharing of text and images Dec. 2024 - Jan. 2025
clipd-app.vercel.app

- Developed a full-stack web application using Python’s FastAPI framework for the backend and HTML5, Tailwind CSS for the frontend.
- Enabled users to save text inputs, images, generate customizable links for easy access, and manage content through retrieval, updates, or deletion on a remotely hosted Supabase database.
- Deployed the application on Vercel for seamless accessibility.

AWARDS AND ACHIEVEMENTS

Received the Meera Rani Mitra Memorial Award, presented by the NCE Bengal & Jadavpur University Alumni Association, for emerging as the highest scorer in the Bachelor of Engineering (Information Technology) First Year Examination 2024. Mar. 2025

Received the L.N. Birla Medal for Excellence awarded by the Vidya Mandir Society for securing the highest marks in the AISSCE 2023 (Science stream). Aug. 2023

Emerged as the first runner up in the Declamation event at Le Concours de la Francophonie 9e Édition organised by Mayo College, Ajmer. Oct. 2022

Received the Diplôme d’Etudes en Langue Française Niveau B2 issued by the Ministry of National Education, Government of France. Aug. 2021

Received the India Mathematics Genius Award from Countingwell on National Mathematics Day. Dec. 2020

Awarded a freeship by the Vidya Mandir Society for high achievement in the school examinations. 2019-2023