

# SARBO SARCAR

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## SUMMARY

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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

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### Jadavpur University

Bachelor of Engineering in Information Technology. CGPA: 9.81

*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: 9.73

*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

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### Programming Languages

C, C++, Java, Python, JavaScript

### Frontend Development

Vite, Tailwind CSS

### Backend Development

Flask, Django, FastAPI

### Database Management

MySQL, PostgreSQL, MongoDB

### DevOps Tools

Git, Docker, Google Cloud Platform

### OS and IDE

Linux, Visual Studio Code

### Languages

English (Bilingual Proficiency), French (DELFL B2 Certified)

### Interests

Transformers, Retrieval-Augmented Generation, Computer Vision

## PROJECTS

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### RAGBot

**Chatbot integrating dynamic knowledge sources for context-aware responses** Jan. 2025 - Feb. 2025

[ragbot-llm.streamlit.app](https://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](https://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.
- Deployed the application on Vercel for seamless accessibility.

## LEADERSHIP AND ACTIVITIES

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### Member, School Editorial Board

Nov. 2022 - Feb. 2023

Birla High School, Kolkata

- Edited multiple English articles for the annual school magazine, The Banyan Tree.
- Prepared editorials for covering various school events.
- Proofread the initial drafts and formulated the list of errata to be corrected in the magazine.

### Representative, Student Delegation

Oct. 2022

Mayo College, Ajmer

- As a member of the student delegation that attended Le Concours de la Francophonie, represented the school in the Declamation event, emerging as the first runner up.

## AWARDS AND ACHIEVEMENTS

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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