

Sayandeep Biswas

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Education:

Heritage Institute of Technology

B-Tech in Computer Science and Engineering (CSE) — CGPA: 8.77/10

Kolkata, India

Nov 2022 – May 2026

DAV Public School

Asansol, India

Senior Secondary (12th Grade) — Percentage: 94.2%

June 2022

DAV Public School

Asansol, India

Secondary (10th Grade) — Percentage: 96.4%

June 2020

Skills:

Technical Skills:

- **Languages:** Proficient in C / C++, Python, JavaScript, HTML/CSS, MySQL, MongoDB
- **Tools and Frameworks:** Git, React, Node.js, Express.js, Tailwind CSS, Firebase
- **Computer Fundamentals:** OOP, Operating Systems, Database Management System, DSA

Projects:

TIXIE Chatbot | NLTK, Node.js, Express, React + Vite, MongoDB, Nodemailer

[GITHUB](#)

Overview: Spearheaded the development of a chatbot that improved ticket booking efficiency by 60%, reducing average booking time from 10 minutes to 4 minutes. This tool provided over 1,000 visitors with real-time exhibit information, enhancing the user experience in a museum setting.

Key Features:

- Designed and deployed an NLP-powered chatbot, achieving a 90% accuracy rate in understanding user queries and providing relevant responses.
- Integrated secure payment processing, facilitating over 500 successful transactions with 100% email confirmation delivery.
- Built an admin portal to manage event schedules and ticket inventory, resulting in a 30% reduction in manual errors and operational delays.

SONORIQ | React, Zustand, Firebase, APIs

[LINK](#)

Overview: Created a robust music discovery tool that aggregated recommendations from over 1,000 tracks; the personalized experience led to a 15% reduction in user churn, enhancing retention among new subscribers.

Key features:

- Curated over 150 personalized, multi-genre playlists while engaging with a community of music enthusiasts
- Built a collaborative community platform where over 100 users actively participated in music discussions, fostering a vibrant and interactive environment.
- Facilitated discussions that led to the discovery of emerging artists and industry trends.
- Leveraged Firebase to implement real-time updates, reducing playlist generation and recommendation delays by 50%.

COURSEGEN | React, Fast API, Gemini API, MongoDB

[LINK](#)

Overview: Built an AI-driven platform that automates personalized course creation for educators and learners. Enabled faster, scalable e-learning content delivery with global accessibility.

Key features:

- Automated generation of structured course outlines, lessons, quizzes, and assignments using Gemini API, streamlining curriculum creation for educators.
- Integrated YouTube API to enrich learning modules with engaging, relevant multimedia content, increasing session duration by 35%.
- Developed a multilingual interface supporting over 10 languages, driving adoption in non-English-speaking regions.

Achievements

- Participated in Hackathons like [DIVERSION 2K24](#), [AIGNITE 2025](#) & [HACK-HERITAGE 2023](#)
- Participated in Build space S5
- Working as a member of National Service Scheme (NSS-HITK).