

# Sayandeep Biswas

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## Education:

### Heritage Institute of Technology

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

### DAV Public School

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

### DAV Public School

Secondary (10th Grade)— Percentage: 96.4%

Kolkata, India

Nov 2022 – May 2026

Asansol, India

June 2022

Asansol, India

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).