

Bibek Roy

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EDUCATION

B.Tech in Computer Science & Engineering Central Institute of Technology, Kokrajhar Current CGPA: 7.91	2023–2026
Diploma in Computer Science & Technology Siliguri Government Polytechnic, Siliguri OGPA: 8.3	2019–2022
Matriculation Sarada Vidya Mandir, Jalpaiguri Percentage: 76.42	2019

SKILLS

Languages: Python, JavaScript
Frontend: HTML, CSS, React.js, TailwindCSS
Backend: Node.js, Express.js, Firebase
Tools: Git, GitHub, Postman

PROJECTS

- User Profile API** (Link): Built a RESTful API using **Node.js**, **Express.js**, and **MongoDB** with secure **JWT** authentication. Designed backend architecture and deployed independently as sole developer.
- Movie Browser** (Link): Developed a movie browsing web app using **React.js** and **Tailwind CSS**, integrating data from the **TMDB API**. Designed responsive UI and optimized API data handling.
- Portfolio Website** (Link): Built a responsive personal portfolio using **HTML**, **CSS**, and **JavaScript**. Implemented smooth navigation and interactive components for better UX.
- NGO Website** (Link): Delivered a professional website using **React.js** and **Tailwind CSS**, enabling online contact submissions and improving outreach. Managed planning, UI design, and deployment.
- Brahmi Script Transliteration** (Link): Led a 4-member team developing a **Brahmi→Devanagari** image-based transliteration model. Contributed to data collection, preprocessing, and model training.

EXPERIENCE

Summer Research Intern — IIT Guwahati (CLST) Jun–Jul 2025

- Worked on **Neural Machine Translation (NMT)** for Assamese→English using a Bi-GRU seq-to-seq model trained in **PyTorch**.
- Prepared datasets through text cleaning, tokenization, and creation of parallel sentence pairs.
- Evaluated translation quality using **BLEU scores**; ran experiments on Colab/Kaggle.
- Model Link: (Link)

Open Source Contributions — UI Enhancements

- Walkez (Link) — Improved UI visual structure and usability (JWoC 2024).
- Openpedia (Link) — Enhanced UI responsiveness and layout consistency (SWoC 2024).

Freelance Project — Admin Panel (**React + Firebase**)

- Developed a task-management and analytics dashboard with real-time Firebase updates.
- Designed core UI components.