NIKITA SARMA

Roll No.:202202022103

B.Tech - Computer Science and Engineering

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Github

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EDUCATION

Degree/Certificate	Institute/Board+CGPA	Year
B.Tech	Central Institute of Technology Kokrajhar (8.73)	2023-Present
Diploma	PCPS Girls' Polytechnic (8.4)	2023
Senior Secondary	AHSEC Board (64.8%)	2020

EXPERIENCE

- **IIIT Guwahati** *May 2025 – June 2025*
  Research Intern (AI/ML) IIIT Guwahati
  - : Working on health state prediction using biometric data.
  - : Developing and comparing deep learning models including CNN, LSTM, and a hybrid CNN-LSTM architecture for binary classification tasks. Focusing on optimizing model size and performance to enable deployment on resource-constrained devices such as wearables or mobile systems. Tasks involve data preprocessing, model training, evaluation, and quantization techniques.

- **AMTRON** *Dec 2022 – Jan 2022*
  Web Design (HTML/CSS) Intern Guwahati
  - : Issued by: Assam Electronics Development Corporation Ltd. (AMTRON).
  - : Completed a 20-day comprehensive training in web design principles, including HTML and CSS.

- **NSIC** *March 2022 – April 2022*
  Database Management Trainee Guwahati
  - : Underwent hands-on training in database concepts and practices.

PROJECTS

- **Movie-Browser Web App**

  - Built a responsive movie browsing application using React and Vite that fetches real-time movie data from the TMDB API, allowing users to discover popular movies and search titles dynamically.

- **Health State Prediction**

  - Developed deep learning models including LSTM, 1D-CNN, and Hybrid CNN-LSTM to predict human health risk using time-series biometric signals. Optimized the models using quantization for efficient deployment on resource-constrained devices.

- **Personal Portfolio**

  - Built a responsive portfolio using HTML, CSS, and JavaScript to showcase my projects and skills, with smooth scrolling, basic animations, and mobile-friendly design.

TECHNICAL SKILLS

- **Programming**: C, C++, Python, SQL, HTML, CSS, Java Script, MS office
- **Category**: Data Structures & Algorithms, Object-Oriented Programming (OOPs), Operating Systems, Computer Architecture

POSITIONS OF RESPONSIBILITY

- **Team lead, college project**, Central Institute of Technology Kokrajhar *Jan 2025 - May 2025*
  - : Led a team to develop an **Assamese WordNet using finite automata**, focusing on root word detection, synonym-antonym mapping and **Eng-As machine translation using transformer**. Coordinated tasks, managed timelines, and presented progress to faculty guides.

- **Class Representative**, During Diploma *Aug 2021 - June 2022*
  - : Maintained attendance records, coordinated with faculty for class scheduling, and ensured smooth academic workflow. Acted as a liaison between students and faculty, managing communication, substitutions, and task delegation when teachers were unavailable.