



NIKITA SARMA

Roll No.:202202022103

B.Tech - Computer Science and Engineering

Central Institute of Technology, Kokrajhar

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Github

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EDUCATION

Degree/Certificate	Institute/Board	Year
B.Tech	Central Institute of Technology Kokrajhar	2023-Present
Diploma	PCPS Girls' Polytechnic	2023
Senior Secondary	AHSEC Board	2020

EXPERIENCE

- IIIT Guwahati** May 2025 – Present
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

- Car rental management system**
 - Developed a full-stack car rental platform using Next.js, MongoDB, and Stripe for renting cars with real-time booking and secure payments.
- 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.
- Construction of Assamese wordnet using finite automata**
 - Developed a semantic network of Assamese words using deterministic finite automata (DFA). Implemented logic to detect root relationships by tracking final and intermediate final states during word traversal. Integrated features to visualize synonym and antonym connections bidirectionally using user input. Designed the system to handle morphological analysis and support future extension into a user-facing WordNet platform.

TECHNICAL SKILLS

- Programming:** C, C++, Python, HTML, CSS, java script, excel, MySQL
- Category:** Data Structures & Algorithms, Object-Oriented Programming (OOPs), Operating Systems, Computer Architecture

POSITIONS OF RESPONSIBILITY

- Team lead, NLP mini 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. Coordinated tasks, managed timelines, and presented progress to faculty guides.
- Class Representative,** During my diploma days 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.