SANDEEPAN CHAKRABORTY

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Aspiring Software Developer specializing in MERN stack development and AI &ML engineering.

EDUCATION

VIT Bhopal University, Bhopal — Aug 2021 – Present
Integrated MTech with Specialization in AI and ML — CGPA – 8.53

Maharishi Vidya Mandir, Guwahati — May 2018 – March 2020
Class 12 — Percentage-74.6%

NPS Internation School, Guwahati — March 2018
Class 10 — Percentage – 91.4%

CERTIFICATES

Cloud Computing by IIT, Kharagpur (NPTEL) — June 2024

Applied Machine Learning in Python (Coursera) — January 2023

SKILLS

Programming Languages

- Java

Frameworks

- MongoDB,
- Express.js
- React.js
- Node.js)

PROJECTS

LSTM model for Indian sign language recognition — Sep 2022 – April 2024

- Developed a real-time sign language recognition system to assist individuals with hearing or speaking disabilities. Utilized computer vision and deep learning, specifically an LSTM model, to identify numbers 0-9 with 91.50% accuracy. The system was trained on a dataset of approximately 200k samples from 8 subjects. Future work includes expanding the sign database and enhancing model efficiency. GitHub Repository.

MERN Stack Admin Dashboard

- **Technologies Used:** Material UI, Redux Toolkit, Node.js, Express.js, MongoDB, Mongoose
- Developed a responsive admin dashboard using Material UI and Nivo Charts for intuitive data visualization.
- Utilized Redux Toolkit for efficient state management and queries.
- Designed and implemented backend with Node.js, Express.js, and MongoDB.
- Modelled data using Entity Relationship Diagrams and performed aggregate calls in MongoDB.

Full Stack E-Commerce Website

- **Technologies Used:** React.js, Node.js, Express.js, MongoDB
- Developed an interactive and responsive e-commerce platform with React.js for seamless user experience.
- Designed backend APIs using Node.js and Express.js for secure and efficient data handling.
- Implemented MongoDB for database management, including product and user data.