

Nishan Chakraborty

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech.	VIT Bhopal University	8.56 (Current)	2022-Present
Class XII	B.D. Memorial International School	86.1%	2022
Class X	Welland Gouldsmith School	93.1%	2020

TECHNICAL SKILLS

Languages: C++, Python, SQL (MySQL), JavaScript, HTML/CSS

Frameworks: React, Node.js, BootStrap

Developer Tools: GitHub, VS Code, Jupyter Notebook, Figma, Notion

Libraries: pandas, NumPy, Matplotlib, scikit-learn

PROJECTS

Bengali Sentiment Analysis | *Python, SVM, NLP*

Jan 2024 – May 2024

- Engineered a Support Vector Machine (SVM) model to classify sentiment in Bengali texts, increasing accuracy from **65% to 79%** on a labeled dataset of **10,000 samples**.
- Executed end-to-end data **preprocessing on 15,000+ entries**, applying tokenization, normalization, and **TF-IDF** vectorization for optimized feature representation.
- Streamlined model training using **Scikit-learn, Pandas, NLTK**, reducing runtime by **20%**, enhancing deployment-readiness for low-resource environments.

FarmFlow | *MERN, IoT, AI*

August 2024 – April 2025

- Built a MERN stack platform integrating real-time **soil moisture monitoring** (Arduino UNO + sensor) with **automated irrigation**, enabling smart water usage for farms.
- Deployed an AI-driven **multilingual chatbot (Varsha)** using **LangChain + Mistral AI**, delivering **farm-specific rainwater harvesting guidance** based on soil type and geolocation.
- Designed a responsive UI with React, Node.js, MongoDB, Material UI, and Figma, **improving user interaction and awareness** of sustainable agriculture practices.

Simon Game | *JavaScript, HTML/CSS*

Jan 2025

- Developed a browser-based Simon Game using HTML, CSS, JavaScript, focusing on **real-time interaction** to enhance memory and pattern recognition.
- Applied **event-driven programming and DOM manipulation** to enable instant feedback and **zero latency gameplay** across devices.
- Implemented synchronized audio-visual cues, **increasing engagement** and usability, with consistent 100% response accuracy during testing.

ACHIEVEMENTS

- Smart India Hackathon 2024 – College Nominee** (Software Edition) Selected through multi-round internal hackathon and **nominated by college** to represent in SIH 2024 national-level competition after rigorous evaluation.
- G. Viswanathan Coding Challenge** (100 Days of Code) Completed an intensive **100-day** coding challenge, **consistently** solving daily problems to strengthen logic, consistency, and algorithmic thinking.
- DSA Milestone – 200+ Problems Solved** (LeetCode, GFG) Solved **over 200 problems** across LeetCode and GeeksforGeeks, improving proficiency in arrays, trees, DP, graphs, and key data structures.

CERTIFICATIONS

- GenAI using IBM WatsonX** (IBM Adroit)
- Full Stack Developer MERN** (SmartBridge)
- Bits and Bytes of Computer Networking** (Coursera)
- Cloud Computing**(NPTEL)
- Marketing Analytics**(NPTEL)