

Nishan Chakraborty

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EDUCATION

VIT Bhopal University, Bhopal, Madhya Pradesh

Bachelor of Technology (B.Tech) in Computer Science and Engineering

CGPA: 8.45 / 10

Expected: May 2026

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, TensorFlow, Keras

PROJECTS

Bengali Sentiment Analysis | *Python, SVM, NLP*

February 2025 – June 2025

- 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.

Customer Churn Prediction | *Tensorflow, Keras, Streamlit*

Jan 2025

- Designed and trained a deep learning model using an Artificial Neural Network (ANN) to classify bank customers based on likelihood of churn, incorporating key features like credit score, tenure, and account activity across a dataset of 10,000 records.
- Performed end-to-end preprocessing (label encoding, scaling) using scikit-learn and monitored model performance with TensorBoard.
- Deployed the solution via a Streamlit web interface enabling real-time, user-friendly predictions with 87% classification accuracy, offering actionable insights to enhance customer retention strategies.

FarmFlow | *MERN, IoT, AI*

August 2024 – December 2024

- 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.

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)