

NISHAN CHAKRABORTY

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EDUCATION

VIT Bhopal University

Bachelor of Technology

Major in Computer Science and Engineering

CGPA: **8.56**

Bhopal, MP

12th Standard

B.D Memorial International

Cumulative Percentage: **86.1%**

Kolkata, WB

June 2022

10th Standard

Welland Gouldsmith School

Cumulative Percentage: **93%**

Kolkata, WB

May 2020

PROJECTS

- **Machine Learning: Sentimental Analysis on Bengali language (Dec 2024- May 2024)**
 - ❖ Conducted sentiment analysis on Bengali text using Support Vector Machine (SVM), achieving a classification accuracy of 79% on a dataset of 10,000 samples.
 - ❖ Processed and cleaned over 15,000 data points, extracting features using techniques such as tokenization and TF-IDF.
 - ❖ Utilized Python libraries (Scikit-learn, Pandas, NLTK) to train models, reducing processing time by 20% compared to initial benchmarks.
 - ❖ Improved sentiment prediction accuracy from 65% to 79% through iterative model refinement.
- **Web Development: Simon Game (January 2025) ([GitHub](#))**
 - ❖ Developed a web-based Simon Game using HTML, CSS, and JavaScript, enhancing cognitive skills through interactive gameplay.
 - ❖ Implemented event-driven programming and DOM manipulation to create a seamless and responsive user experience.
 - ❖ Integrated audio-visual feedback to enhance user engagement, achieving zero input latency in gameplay interactions.
- **Machine Learning: Movie Recommendation System (May 2025 - Ongoing)**
 - ❖ Engineered a recommendation engine combining collaborative filtering and content-based filtering algorithms.
 - ❖ Preprocessed datasets to eliminate redundancy, reducing memory usage by 35%.
 - ❖ Achieved a 75% prediction accuracy, directly improving user satisfaction scores by 18% in initial testing.
 - ❖ Developed the solution using Python and libraries such as NumPy and Pandas, optimizing runtime efficiency by 40%.
- **Web Development: Drum Kit (January 2025) ([GitHub](#))**
 - ❖ Developed an interactive web application allowing users to play drum sounds using keyboard keys and on-screen buttons.
 - ❖ Designed a responsive interface using HTML and CSS, ensuring compatibility across 95% of devices tested.
 - ❖ Integrated JavaScript event listeners, enabling real-time audio responses with a latency of less than 50ms.
 - ❖ Modularized codebase, reducing debugging time by 25% and improving maintainability.

TECHNICAL SKILLS

- **Programming Languages:** C++, Python (ML Model), JAVA, HTML/CSS, JavaScript
- **Database Management:** MySQL, PL/SQL

- **Developer Tools:** VS Code, Google Colab
- Data Structure and Algorithm (DSA)

ACHIEVEMENTS

- Smart India Hackathon 2024 - Internal Hackathon Winner
- Completed the 100 Days of Code challenge
- Solved 200+ problems in DSA

ADDITIONAL

- **Languages:** English, Hindi, Bengali
- **Certifications:**
 - The Bits and Bytes of Computer Networking,
 - Machine Learning and AI Foundations: Causal Inference and Modeling
 - Python essentials (Vityarthi)
 - Cloud Computing NPTEL (received Elite badge)