**NISHAN CHAKRABORTY**

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**EDUCATION**

**VIT Bhopal University**  *Bhopal, MP*

*Bachelor of Technology*

Major in Computer Science and Engineering

CGPA: **8.56**

**12th Standard**

B.D Memorial International *Kolkata, WB*

Cumulative Percentage: **86.1%** *June 2022*

**10th Standard**

Welland Gouldsmith School *Kolkata, WB*

Cumulative Percentage: **93%** *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](https://github.com/Nishan-1904/Simon-Game))
* 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](https://github.com/Nishan-1904/Drum-Kit))
* 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)