# Nishant Bharati

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## Education

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| **Maulana Azad National Institute of Technology, Bhopal** | 2023 – 2027 |
| *B-Tech in Mathematics and Data Science* | ***CGPA: 8.66*** |
| **Sadhu Ram Vidhya Mandir, Raigarh** | 2021 – 2022 |
| *CBSE (Class XII)* | ***92%*** |
| **Sadhu Ram Vidhya Mandir, Raigarh** | 2019 – 2020 |
| *CBSE (Class X)* | ***93%*** |

## Technical Skills

**Languages**: C/C++, JavaScript, Python, HTML,CSS
**Frameworks/Technologies**:Tailwind CSS, Flask, Git, GitHub, Express, NodeJs, Streamlit
**Libraries**: React, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn
**Course Work**: OOPS, Data Structures and Algorithms, Operating System, Networking
**Soft Skills**: Communication, Teamwork, Problem-Solving, Leadership

## Projects

**E-Commerce Recommendation System** | *Python, Flask, Machine Learning*　　　　Link | GitHub

- Analyzed **Datasets** to understand **user behavior**, ratings, and product attributes for better recommendations.
- Implemented **content-based** and **collaborative filtering** using **matrix factorization** and **neighborhood-based models** for higher accuracy.
- Developed a **hybrid model**, increasing **accuracy by 15%** by integrating multiple **ML techniques**.
- Designed a **Flask app** with **product browsing**, and **dynamic recommendations** for enhanced experience.

**Portfolio Website** | *React, Tailwind CSS*　　　　Link | GitHub

- Designed a **React-based** portfolio with **interactive animations** and smooth navigation for showcasing personal projects.
- Developed **Tailwind CSS** to ensure a **fully responsive**, modern UI with optimized speed and navigation.
- Integrated **Web3 Forms** for **secure form handling**, enhancing communication and user engagement.

**Movie Recommendation System** | *Streamlit, Python, Machine Learning*　　　　Link | GitHub

- Designed a **Streamlit app** recommending movies using **cosine similarity** and **content-based filtering** for personalized suggestions.
- Utilized **TF-IDF** to analyze **10,000+ movie descriptions** and **TMDb API** for dynamic posters.
- Integrated **machine learning models**, boosting **recommendation accuracy by 20%** with real-time suggestions.
- Developed a **fully responsive UI** with dynamic posters and real-time insights for better user experience.

**Heart Disease Prediction System** | *Flask, Python, Machine Learning*　　　　Link | GitHub

- Developed a **Flask app** for real-time **heart disease risk assessment** using **13+ key health metrics**.
- Implemented **Logistic Regression**, achieving **83% accuracy** with **feature selection**, **data normalization**, and **hyperparameter tuning**.
- Built an **interactive UI** with **automated result interpretation** to enhance usability for patients and doctors.

## Achievements

- Ranked **Pupil (1209)** on Codeforces, demonstrating strong problem-solving skills in competitive programming.
- Achieved a maximum rating of **1540** on CodeChef, solving complex algorithmic challenges.
- Received a **Certificate** from **GUVI** for completing the *Guinness World Record Event* – Most users to take an online computer programming lesson in 24 hours.