



# Shiwangi Sinha

Roll no.: BTECH/60039/22

Bachelors of Technology

Computer Science & Engineering

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## EDUCATION

- |  |   |
|--|---|
| • <b>Birla Institute of Technology, Mesra</b><br>Computer Science and Engineering                              | 2022-present<br>Till 5th sem, GPA: 7.99 |
| • <b>SK Bage Inter College, Kalebira Jharkhand</b><br>Jharkhand Academic Council, Jharkhand                    | 2021<br>Percentage: 77.4                |
| • <b>DAV Public School PO Mahanandpur Bihar Sharif, Nalanda</b><br>Central Board of Secondary Education, Bihar | 2019<br>Percentage: 88.8                |

## MAJOR PROJECTS

### Anomaly Detection System

- Currently working on a machine-learning-powered anomaly detection system to identify unusual patterns in stock and social media like Twitter. AI models to detect outliers and potential risks in real-time.
- Implementing robust backend with Django ensuring stability, efficiency and efficient model training for improved decision making.

### Symptom-Based Disease Prediction System

Guide: Prof. Raja Ram Dutta

- Developed a web-based application that allows users to select symptoms from a dynamic dropdown and predicts possible diseases using a machine-learning model.
- It has GUI that contains various navigations like sign-in and sign-up, taking tests, trends, health alerts, activity levels, medical metrics, dropdowns, proportions of users in different risk categories, cluster plots, ROC curves, Risk Status graphs, Risk Labels across different age groups, etc.

## OTHER PROJECTS

### Amazon Clone

Developed a simplified Amazon-like e-commerce platform while learning web development.

## POSITION OF RESPONSIBILITY

### Student volunteer at NSS and DRISTI

- Involve in social activities like interacting with villagers and work on their needs.
- Improve communication skills.
- Teaching children and conducting interactive and fun events for them on special occasions.

## SKILLS

**Languages:** C, JAVA, JavaScript, Python

**Developer Tools:** Visual Studio Code, IntelliJ IDEA Community Edition 2023.1, Git, Replit

**Frontend:** HTML5, CSS, JavaScript

**Backend:** MongoDB, Basic Python, Django

**Coursework:** Data Structures and Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Standard Query Language

## AREA OF INTEREST

**Data Structures and Algorithm**

**Web Development**

**Competitive Programming**

**Data Handling**

**Artificial Intelligence & Machine Learning**

