

# Vanisha Sharma

BTech Computer Science (2023–2027)



**MUKESH PATEL SCHOOL OF  
TECHNOLOGY MANAGEMENT  
& ENGINEERING**



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## Education

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<b>MPSTME, NMIMS University</b> B.Tech in Computer Science CGPA: 3.0 / 4	2023–Present
<b>Shri Sathya Sai Vidhya Vihar, Indore</b> CBSE (Class XII): 76%	2023
<b>Shri Sathya Sai Vidhya Vihar, Indore</b> CBSE (Class X): 88%	2021

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## Projects

### Urban Waste Dump Detection using Satellite Imagery

Developed a machine learning pipeline using Sentinel-2 satellite imagery to detect urban waste dump locations. Applied image preprocessing, feature extraction, and classification techniques to identify waste accumulation zones for environmental monitoring.

### Network Intrusion Detection System (IDS)

Built a machine learning-based intrusion detection system using the CIC-IDS2017 dataset to detect malicious network activity. Implemented preprocessing, feature engineering, and classification models to identify cyber attacks in network traffic.

### Markdown to HTML Converter

Built a converter that parses Markdown syntax and transforms it into valid HTML tags with custom parsing logic and error-tolerant processing.

### ADBMS — Food Ordering Website

Designed a database-driven food ordering system with relational schema, CRUD operations, and authentication features for efficient order management.

### Image & Video Processing — Cartoonization

Developed a cartoonization pipeline using edge detection, bilateral filtering, and color smoothing techniques for stylizing images and videos.

### Java Application (OOP Project)

Implemented an intermediate Java application demonstrating object-oriented programming concepts, file handling, and modular program design.

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## Experience

### Code Alpha

April 2026 – May 2026

Working on data analytics projects involving data cleaning, exploratory analysis, and visualization using Python-based data science tools.

Data Analytics Intern (Upcoming)

### Future Interns

March 2026 – April 2026

Contributed to collaborative technical projects and gained exposure to practical software development workflows and industry practices.

Data Analytics Internship

## Certifications

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- Google Data Analytics Professional Certificate (Currently Pursuing)
- Vanderbilt Prompt Engineering Specialization
- Complete SQL and Databases Bootcamp

## Positions of Responsibility

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- NMMUN Rapporteur – UNHCR Committee 2023–2024
- GDSC EM OC Member 2023–2024
- Core Member – LearnTech Club

## Core Skills

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### Programming

Java, Python, SQL, JavaScript

### Web Development

HTML, CSS, Node.js, Basic Full-Stack Development, CRUD Application Design

### Data Analytics

Pandas, NumPy, Data Cleaning, Exploratory Data Analysis (EDA), Data Visualization

### Computer Vision

OpenCV, Image Processing, Edge Detection, Filtering Techniques

### Databases

MySQL, Relational Database Design, DBMS, ADBMS

### Tools

Git, VS Code, Jupyter Notebook

### Concepts

Object-Oriented Programming, Computer Vision, Data Analysis, Web Application Architecture