

# Manisha Singh

Phone: +91 8887708728 | Email: singhmanisha170603@gmail.com

LinkedIn: <https://www.linkedin.com/in/manisha-singh-a04729250>

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## Education

### Bachelor of Technology (B. Tech)

Major in Computer Science; Minors in Artificial Intelligence and Machine Learning

VIT Bhopal University, Bhopal, Madhya Pradesh

Cumulative GPA: 8.24/10

Expected Graduation: May 2026

### 12th Standard

Surya Public School, Lucknow, Uttar Pradesh

CBSE Cumulative GPA: 7.94/10

July 2021

### 10th Standard

Guru Har Rai Academy, Kanpur, Uttar Pradesh

ICSE Cumulative Percentage: 88%

May 2019

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## Projects

### Sanitary Waste Disposal Machine - October 2024

- Designed and pioneered an automated incineration system prototype, increasing waste disposal efficiency by 30% and minimizing environmental impact in pilot tests.
- Devised advanced temperature control mechanisms, reducing overheating incidents by 95% and enhancing user safety.
- Proposed sensor-based, touchless operation features, improving hygiene standards and user convenience for 50+ users during the trial phase.
- Utilized heat-resistant materials, extending system durability and reducing maintenance needs by 25%.

### Administrative Chatbot - September 2024

- Liaised a chatbot leveraging Machine Learning and Natural Language Processing (NLP) techniques to accurately interpret and respond to over 500 user queries monthly.
- Automated scheduling, document requests, and frequently asked questions, reducing administrative workload by 40% and improving response time for users.
- Restructured the chatbot using Dialog flow, Flask, and Python; designed an interactive user interface that supported real-time collaboration for 100+ users.
- Integrated MySQL and MongoDB databases for robust data management, ensuring 80% retrieval accuracy for user requests.

### Fraud Detection in Online Banking Transactions - July 2023

- Implemented a data validation process using Python and Pandas, identifying and correcting over 150 data inconsistencies in large transaction datasets, ensuring 99% data integrity for fraud detection models.
  - Assessed data visualization techniques (Matplotlib, Seaborn) to analyse model outputs, optimizing model performance by 15% and presenting actionable insights to stakeholders.
  - Streamlined and deployed supervised machine learning models, including Random Forest and Logistic Regression, to perform anomaly detection on transaction data, identifying fraudulent patterns with a 60% accuracy rate.
  - Achieved a 20% reduction in false positive rates, improving the reliability and efficiency of fraud detection systems.
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## Skills

- Proficient in programming languages including C++, Java, and Python.
  - Experienced in backend development, including RESTful API design, authentication using Firebase Auth, and microservices architecture.
  - Skilled in cloud computing and DevOps tools such as Docker, Firebase, and version control systems (Git, GitHub).
  - Knowledgeable in database management, including SQL, database design, and performance optimization.
  - Familiar with software engineering methodologies, including Agile development and CI/CD pipeline implementation.
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## Extra Curriculars

- BitByBit Club, VIT Bhopal University (2024–2025)**  
Led the Event Management Department, organizing and executing over 10 technical workshops and hackathons, enhancing student engagement and fostering a collaborative learning environment.
  - Cyber Warriors Club, VIT Bhopal University (2023–Present)**  
Managed communications and outreach initiatives as a member of the Public Relations & Outreach Department, increasing club event participation by 30% through targeted campaigns and social media engagement.
  - Literature Club, Guru Har Rai Academy (2017–2019)**  
Coordinated debate and declamation competitions, mentoring 20+ students and contributing to the club's recognition in inter-school events.
  - Event Management Club, Guru Har Rai Academy (2016–2019)**  
Directed a team of 15 students to plan and deliver successful school-wide events, optimizing resources and improving attendance by 25%.
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## Additional

- Certifications:**
  - IBM GenAI Using Watsonx, May 2025
  - IBM Cyber Security Analyst, May 2025
  - NPTEL Privacy and Security in Online Media, April 2024
  - Applied Machine Learning in Python - Coursera, January 2024
- Languages:** Fluent in English and Hindi