

# Shreya Dutta

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## EDUCATION

**VIT Bhopal University**  
BTech Major in Computer Science; Minors in Gaming Technology  
Cumulative GPA: 8.1/10

Bhopal, Madhya Pradesh  
Expected May 2026

**12th Standard**  
**Kendriya Vidyalaya**  
CBSE Cumulative GPA: 64.2%

Birbhum, West Bengal  
Jul 2022

**10th Standard**  
**Kendriya Vidyalaya**  
CBSE Cumulative GPA: 84.2%

Birbhum, West Bengal  
Jul 2020

## PROJECTS

### 1. Liquid Metamorphosis – Puzzle Game Jun 2022 – Sep 2023

**Technologies:** Python, Unity, VR, A\* Search Algorithm

- Developed a 2D adventure puzzle game using liquid transformation mechanics to enhance problem-solving gameplay.
- Implemented AI pathfinding (A\* Search, Monte Carlo Tree Search) for optimized navigation and decision-making.
- Built a scalable architecture in Python with support for VR and multiplayer functionality.
- Integrated dynamic difficulty and real-time physics for immersive player experiences.

### 2. EduNova – AI-Based Learning Platform Jun 2023 – Sep 2024

**Technologies:** Node.js, Python, React, MongoDB, AI/ML

- Engineered a web-based platform to gamify educational content using AI-driven difficulty adaptation.
- Designed and deployed AI models for dynamic quiz generation and performance-based progression.
- Ensured smooth frontend-backend integration, optimizing load times and maintaining >30 FPS performance.

### 3. Sanitary Waste Disposal System Jun 2024 – Sep 2025

**Technologies:** Blender, Python, HTML/CSS, JavaScript

- Prototyped an eco-friendly, sensor-driven sanitary napkin incinerator with hygienic, enclosed design.
- Developed control logic and animations using Blender and Python for real-time simulation.
- Integrated ML-based detection for automation, enhancing public health and sanitation awareness.

## SKILLS

- Programming Languages:** Python, C++, Java, JavaScript, SQL, MySQL
- Web Development:** HTML5, CSS3, Bootstrap, Node.js, React.js
- Database & Cloud:** MongoDB, MySQL, AWS
- Tools & Frameworks:** Unity, Blender, Adobe XD, Figma, Git
- Computer Science Concepts:** Data Structures & Algorithms (DSA), DBMS, Game Mechanics, Machine Learning

## EXTRACURRICULAR AND ACTIVITIES

- Music Club Member | VIT Bhopal | Dec 2022 – Jul 2023**  
Organized cultural events and performances, fostering teamwork and creativity.
- AdViTy (Foragers 2.0) Feb 2024:** Secured First Place in a competitive campus tech fest event.
- Participated in Flipkart Grid 5.0, HackRx 4.0, and TechGig Code Gladiators, gaining hands-on competitive programming experience..

## ADDITIONAL

- Languages:** English, Hindi, Bengali
- Certifications :**
  - NPTEL - Foundations of Cyber Physical Systems
  - Coursera - Unity and C# Basics
  - IBM Adroit - GenAI
  - IBM Adroit - Cybersecurity Analyst