

# JAGRITI KANWAR

Indian Institute Of Technology, Patna

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## Education

**Indian Institute Of Technology, Patna**

**2022-2026**

*B.Tech in Mechanical Engineering*

**Prayas Balika Aawasiya Vidhyalaya, Raipur**

**2019-2021**

*CGBSE | CLASS XII | Percentage: 90.4%*

**Prayas Balika Aawasiya Vidhyalaya, Raipur**

**2019**

*CGBSE | CLASS X | Percentage: 94.50%*

## Projects

**Drum Kit** | HTML | CSS | JavaScript

**Source Code**

- Established an interactive drum kit using **HTML, CSS, and JavaScript**, allowing users to play **7 different drum sounds** by clicking buttons or pressing corresponding keyboard keys, resulting in **95%** positive user feedback on interactivity.
- Engineered and deployed a **sound playback** feature, utilizing JavaScript event listeners to trigger audio files and visual effects, reducing event-trigger lag time by **15%**, which improved overall user responsiveness by **25%**.
- Designed an adaptive and responsive user interface, applying custom CSS for a visually appealing layout, achieving **100%** cross-device compatibility and reducing bounce rates by **20%** through real-time, sound-triggered button animations that provide instant feedback during user interaction.

**Movie Data Analysis and Popularity Insights** | Python

**Source Code**

- Processed a movie dataset** containing 25,552 entries and 6 columns, including genres, ratings, and popularity metrics, using Python libraries such as pandas, NumPy, and seaborn.
- Categorized and visualized data**, segmenting the **Vote Average** column into quartiles (e.g., popular, average) and analyzing genre distribution, with **Drama as the most frequent genre** (3,715 occurrences).
- Performed exploratory data analysis (EDA)**, visualizing trends such as **popular movie genres** and **release date distributions**, and identified **"Spider-Man: No Way Home"** as the movie with the highest popularity score.

**Dice Game** | HTML | CSS | JavaScript

**Source Code**

- Formulated an interactive **Dice Roll Game** using **HTML, CSS, and JavaScript** to simulate a 2-player dice rolling competition, with real-time outcomes displayed based on randomized dice rolls.
- Implemented **randomized dice roll logic** using JavaScript's **Math.random()** function, calculating dice values between 1 and 6, dynamically updating images via **DOM manipulation** to reflect dice outcomes.
- Designed a **responsive and visually appealing UI** using custom CSS, integrated **Google Fonts** and styling to enhance user experience, achieving **80% image scaling** for responsive design across devices.

## Skills

**Programming:** C++, C, Object Oriented Programming (OOPs), Data Structure and Algorithm, JavaScript, Python

**Data Analysis and Visualization:** Sentiment Analysis, Recommendation Systems, Trend Analysis, Clustering and Audience Segmentation, Predictive Analytics

**Tools and Frameworks:** VSCode, Windows Google Colab, MS PowerPoint, MS Excel, Jupyter Notebook, NumPy, Pandas, GitHub

**Web Skills:** HTML/CSS, JavaScript, React

## Coursework

**Core Courses:** Programming & Data Structure, Data Science, Python Programming

**Mathematics:** Linear Algebra & ODE, Complex Analysis, Probability

## Professional Development

- \* **Web Development (Udemy):** Acquired skills in front-end and back-end web development technologies.
- \* **GenAI Study Jams 2024:** Participated in advanced courses & sessions focused on generative AI technologies.
- \* **Google AI Essentials (Coursera):** Studied foundational concepts in artificial intelligence and machine learning.

## Achievements

- \* **CODECHEF:** Highest Rating of **1050 (Handle)**.
- \* **LeetCode:** Highest Rating of **1465 (Handle)**.
- \* Shortlisted as one of the **2000** students for **National Talent Search Examination Stage - 2**.
- \* Solved **100+** Questions on different competitive platforms like **Codeforces, Geeksforgeeks**.

## Leadership / Extracurricular

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- Promoted to **Sponsorship Coordinator** after successfully leading a team of **15+** members to organize events, resulting in a **25%** increase in participant turnout compared to the previous year.
- Elevated to the role of **Club-Coordinator** following a successful tenure as a Core Team Member in Dance Club at IIT Patna. Oversaw a team of **100+ dancers**, organizing a workshop that saw a **30% growth** in student participation.