

# Kalyani Bharsat

📞 9325814981 ✉ [kalyanibharsat123@gmail.com](mailto:kalyanibharsat123@gmail.com)  [linkedin.com/kalyanibharsat](https://www.linkedin.com/kalyanibharsat)  [github.com/kalyanibharsat](https://github.com/kalyanibharsat)

## Education

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### Sardar Patel Institute Of Technology

Master of Computer Application (GPA: 9.23 / 10.00)

Andheri, Maharashtra

August 2023 - Present

### Institute of Forensic Science

Bachelors in Forensic Science (GPA: 9.27 / 10.00)

Fort, Mumbai, Maharashtra

2020 - 2023

## Technical Skills

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**Proficient :** Java, HTML5, CSS, JavaScript, Spring Boot

**Database and Tools:** MySQL, GitHub

## Projects

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### Bus Ticket Booking

- Developed a bus booking system that allows admins to manage bus details and users to book buses.
- Designed and developed the **backend** using **Spring Boot MVC**.
- Implemented controllers, services, and repositories to handle application logic.
- Implemented **RESTful APIs** for admin and user operations.
- Integrated **MySQL** database for persistent storage of bus details and user bookings.

Technologies: **Spring Boot MVC, MySQL, JSP, HTML, CSS**

### Diamond Hunter Game

- In the Diamond Hunter project, I used **Java** to develop the core game logic and **Java Swing** for creating an interactive user interface with elements like buttons and game grids.
- **AWT Graphics** was employed to render the visual components, such as the maze, diamonds, and obstacles.
- A **backtracking algorithm** handled the pathfinding logic, allowing efficient navigation through the maze while avoiding obstacles.
- This logic was also integrated into the two-player mode, managing alternating turns for an engaging gameplay experience.

Technologies: **Java, Java Swing, AWT Graphics, BackTracking**

### Vehicle Number Detection System

- Developed a **Vehicle Number Detection System** using **Python** and **OpenCV**, capable of accurately detecting and recognizing vehicle number plates from images.
- Applied image processing techniques like edge detection and contour analysis to locate and extract number plates from various angles and lighting conditions.
- Implemented Optical Character Recognition (OCR) using **Tesseract** to convert number plate images into readable text for further processing.

Technologies: **Python, OpenCV, Tesseract (OCR)**

### UDeeKal Agency Site

- Developed a multi-page website for a web development agency using **HTML**, ensuring clear and organized content across various pages.
- Designed an attractive and responsive layout with **CSS**, incorporating Flexbox and Grid to adapt to different screen sizes and devices.
- Implemented a **top function** with **JavaScript** to allow users to quickly return to the top of the page.
- Created an interactive hamburger menu with **JavaScript** to streamline navigation across the multi-page site.

Technologies: **HTML, CSS, JavaScript**

## Achievements

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**Winner:** General Championship Dodgeball, April 2024

**Winner:** Group Dance Competition, September 2023

## Participation

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- Participated in Coderush 4.0: The IVP Hackathon held by Team Coderush 4.0. Indus Valley Partners