

SANKALP RAJ

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Education

Acharya Institute of Technology <i>Bachelor of Engineering in Computer Science and Engineering</i>	2021 – 2025
Kendriya Vidyalaya No.1 Pathankot <i>Senior Secondary (Class XII)</i>	2019 - 2020
Kendriya Vidyalaya AFS Samana <i>Secondary (Class X)</i>	2017 - 2018

Skills

- **Languages:** Java, C++, C, Python, C#, SQL
- **Frontend Technologies:** HTML, CSS, Bootstrap, JavaScript, React
- **Backend Technologies:** Java, JDBC, Spring Boot, Spring MVC, Spring Security, Hibernate
- **Database:** MySQL, MongoDB
- **Tools & Platforms:** Maven, JUnit, Git, GitHub
- **CS Fundamentals:** OOPs, DBMS, Operating Systems

Projects

Automatic Number Plate Recognition System | *Python, OpenCV, Tesseract OCR* |

- Implemented a real-time number plate detection system using OpenCV & Haar Cascades classifier. Handled real-time video input from a webcam to capture number plate.
- Integrated Optical Character Recognition (OCR) with Tesseract to extract license plate text.
- Matched recognized plate numbers with a predefined vehicle database to retrieve and display owner information.

Book Management System | *Java, JSP, Servlet, Hibernate, MySQL, Bootstrap, Maven* |

- Built a full-stack web application for managing books with CRUD operations and search functionality.
- Implemented MVC architecture using Servlets (Controller), JSP + Bootstrap (View), and Hibernate (Model).
- Designed responsive UI with Bootstrap and dynamic JSP pages to display and manage books. Integrated MySQL database with Hibernate for seamless persistence and query execution.

Hotel Management System | *Java, MySQL, SQL, JDBC* |

- Developed a console-based Hotel Management System enabling room reservation, updating, deletion, and retrieval using CRUD operations.
- Integrated Java with MySQL via JDBC API to store and manage guest details, contact info, and reservation data.
- Designed relational database schema and implemented SQL queries for data manipulation and retrieval.

Certificates and Licenses

- SQL (Intermediate) [HackerRank](#) (Aug 2025)
- Getting Started with Git and GitHub [Coursera](#) (Feb 2024-Mar 2024)
- Introduction to HTML, CSS, JavaScript [Coursera](#) (Feb 2024-Mar 2024)
- Java Certification Course [IntelliPaat Academy](#) (Jul 2024)

Declaration: I hereby affirm that all the information above is true and accurate to the best of my knowledge.