

# RIDHIMA SHARMA

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## EDUCATION

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| <b>Thapar Institute of Engineering and Technology</b><br><i>Bachelor of Engineering(Batch 2026) - Computer Engineering – 8.45/10 CGPA.</i><br>-Present | <b>Punjab, Patiala</b><br><b>Sept 2022</b>               |
| <b>Triple M Public School</b><br><i>XII (PSEB) -95.6% Score</i>                                                                                        | <b>Punjab, Hoshiarpur</b><br><b>Apr 2020 -March 2022</b> |
| <b>Dasmesh Public School</b><br><i>X (CBSE) -93.2% Score</i>                                                                                           | <b>Punjab, Mukerian</b><br><b>March 2020</b>             |

## LEADERSHIP EXPERIENCE

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| <b>ACM Chapter TIET</b><br>Gained hands-on experience in developing a customer-centric food delivery website during participation in Eclipse 4.0.                                                                                        | <b>Patiala, Punjab</b> |
| <b>Creative Computing Society TIET</b><br>Contributed to Hack TU by developing the front end of the SwapSkill website, enabling over 200 skill exchanges and improving user interaction by 30%, while enhancing analytical skills.       | <b>Patiala, Punjab</b> |
| <b>URJA'23 TIET</b><br><i>Event Management</i><br>Served as a core member of the Marketing Department, securing 10+ sponsors and managing the registration process for over 50 participating teams from various institutes for the fest. | <b>Patiala, Punjab</b> |
| <b>Thapar Fitness Club (TFC)</b><br><i>Events Management</i><br>Facilitated team collaboration as a key club member, bolstering communication efficiency and contributing to a 20% improvement in management productivity.               | <b>Patiala, Punjab</b> |

## ACADEMIC PROJECTS

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| <b>Mobile App Development</b> <ul style="list-style-type: none"><li>Learned to design my first app, Tic-Tac-Toe, by getting my hands on Android Studio.</li></ul>                                                                                                                        | <b>December 2022</b> |
| <b>DIY with Arduino</b> <ul style="list-style-type: none"><li>Engineered a potentiometer prototype with Arduino and Tinkercad, enhancing design precision by 30% and streamlining development processes.</li></ul>                                                                       | <b>December 2023</b> |
| <b>Database Management System</b> <ul style="list-style-type: none"><li>Created an Art Gallery Management System using PL/SQL, optimizing data management processes.</li></ul>                                                                                                           | <b>May-2024</b>      |
| <b>Real-world Application based on computer vision</b> <ul style="list-style-type: none"><li>Proposed a method for Vehicle Number Plate Detection which involved capturing the input image pre-processing, number plate localization, segmentation, and character recognition.</li></ul> | <b>October-2023</b>  |

### Handwritten Digit Recognition (KNN)

- Architected a Handwritten Digit Recognition system with the K-Nearest Neighbor Algorithm, attaining a 95% accuracy rate and performing an in-depth analysis of training-testing splits and k-value impacts.

June-2024

### PERSONAL PROJECTS

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Engineered a series of JavaScript mini-projects, including a BMI Calculator, Digital Clock, etc, while crafting a robust frontend portfolio utilizing HTML and CSS, showcasing an Amazon clone and the SwapSkill platform for skill reciprocity. Enhanced user engagement by 30% through optimized HTML and CSS designs.

### SKILLS AND COURSES

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**Languages:** C Programming, SQL, Object-Oriented Programming, Python, HTML5, CSS, Javascript (Basics), Typescript (Basics), R Programming

**Courses:** Computer Networks, Operating Systems, Database Management Systems, Data Structures and Algorithms, Artificial Intelligence, Machine Learning, Foundations of Data Science.

**Interests:** Designing (Figma Software)

### EXTRACURRICULAR ACTIVITIES

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#### Thaparolympics and Annual Sports Meet

- Achieved gold medal in Badminton at the regional championship, competing against several participants and demonstrating top performance in the tournament.

#### Virsa Mela

- Dominated the Bhangra competition held by Virsa, leading a team; the routine was executed flawlessly, leading to strong audience reactions and solidifying the team's reputation within the cultural community.