

# RAVI RAJ

Motilal Nehru National Institute of Technology, Allahabad

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## Education

### Motilal Nehru National Institute of Technology

2021-2025 (Ongoing)

Bachelor of Technology (B.Tech)

CPI :7.2

### Class 12<sup>th</sup> C.B.S.E

2019

Senior Secondary Education

84%

## Experience

### Sharang Shakti

Dec 2023 – Feb 2024

Research Intern

Remote

- Collaborated with the tech team on visual data analysis, leveraging OpenCV and YOLOv7 for image processing and object detection tasks.
- Wrote custom algorithms for data augmentation.
- Implemented custom data structure to reduce CPU usage by 8%.

## Projects

### Shopping Cart Backend | Spring Boot, JWT

December 2024

- Developed a shopping cart back-end system using Spring Boot, implementing JWT for secure user authentication.
- Integrated Spring Security to enforce role-based access control (RBAC) and protect sensitive endpoints.
- Followed MVC architecture and adhered to coding best practices to enhance code readability and maintainability.

### ChatConnect | MERN Stack, Socket.IO

August 2024

- Built a real-time chat application using MERN stack and Socket.IO for seamless user communication.
- Implemented WebSocket protocol to enable bi-directional, event-based communication between users.
- Developed user authentication and chat room management features for a secure and customizable experience.

## Technical Skills

**Languages:** C++, Java

**Developer Tools:** VS Code, IntelliJ

**Frameworks:** Express.js, Node.js, SpringBoot,Socket.io

**Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Operating System,DBMS

**Databases:** MongoDB, MySQL

## Positions of Responsibility

### Softathlon (Official Tech Event)

Dec-2024

Coordinator

MNNIT

- Coordinated the final round of Softathlon, an official university event focused on technical skill evaluation.
- Conducted mock interviews for juniors (1st 2nd and 3rd year students) focusing on DSA problem-solving skills.
- Led core subject mock interview rounds for 3rd-year students to help them prepare for placements.

### Freelancing Team Lead

2023

Managed a Team of 100+ Freelancers

- Led a team of over 100+ freelancers to deliver high-quality results across various client projects.
- Oversaw project allocation, ensured timely delivery, and maintained client satisfaction.
- Streamlined team workflows and fostered collaboration to enhance efficiency and output.

### PR Team Member

2021

Entrepreneurship Cell, MNNIT

- Collaborated with a dynamic team to organize events and initiatives promoting entrepreneurship on campus.
- Contributed to planning and executing workshops, hackathons, and startup networking events.
- Assisted in outreach efforts, increasing participation and engagement in E-Cell activities.