

# Kavya Gupta

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## Education

**Madan Mohan Malaviya University of Technology**, Gorakhpur, UP  
B.Tech, Electronics and Communication Engineering

Nov 2022 – May 2026

## Experience

**Summer Internship, DMSRDE, DRDO**, Kanpur, UP

Jul 2024 – Aug 2024

- Built Intrusion Detection System using Snort on Ubuntu, achieving 90%+ accuracy for DoS and brute force attacks; analysed packets with Wireshark to reduce false positives.
- Researched IoT security vulnerabilities and proposed mitigation strategies for device ecosystems.
- Documented Snort rule testing for internal reference, enhancing team knowledge sharing.

**ML Internship, IIT Kanpur**, Kanpur, UP

Jun 2025 – Present

- Developing a Facial Expression Recognition system to classify 28,709 grayscale images into seven emotions using basic CNNs with TensorFlow and OpenCV for human-computer interaction.
- Preprocessing images with OpenCV for feature extraction, including resizing and normalisation; training CNN model to improve classification accuracy.
- Evaluating model performance using Accuracy, Precision, Recall, and F1-Score metrics, working toward reliable results on test data.

## Projects

**CineSync** | [Link](#)

*Java Spring Boot, React.js, WebSockets, WebRTC, H2 DB*

- Engineered synchronised video playback across multiple users using WebRTC and WebSockets, with host-controlled pause/play/seek.
- Built backend APIs and data models in Spring Boot and JPA for room creation, user roles, and real-time chat messaging.
- Integrated H2 in-memory database for rapid prototyping and seamless backend development.

**Whack-a-Mole Game** | [Link](#)

*HTML, CSS, JavaScript*

- Designed a browser-based game with dynamic difficulty, real-time scoring, and animated UI.
- Increased event handling efficiency by 15% through optimised DOM interactions.

**Vorto – Project Management System** (in progress) | [Link](#)

*React, Redux, React Router DOM, Tailwind CSS, Spring Boot, Spring Security, JWT, MySQL, Razorpay*

- Built full-stack project workflows enabling users to create/manage projects, assign tasks, log issues, and comment, using React front-end and Spring Boot REST APIs.
- Implemented secure team collaboration with JWT/Spring Security authentication, invitation flows, and centralised state management via Redux.
- Integrating subscription features with Razorpay, search/filter UI, and email notifications to support monetised, production-ready deployment.

## Technical Skills

- **Languages & Frameworks:** Java, JavaScript, Python, HTML/CSS, Spring Boot, Spring MVC, TensorFlow, Redux, React.js (learning)
- **Tools & Technologies:** MySQL, JWT, Git, GitHub, Postman, Maven, VS Code, IntelliJ, REST APIs
- **Other Skills:** Data Structures & Algorithms, DBMS, ML (CNNs)

## Position of Responsibility

**Editorial and Content Research Head, Robotics Club, MMMUT**

Jul 2022 – Present

- Led documentation for 10+ events, boosting engagement by 40% (500+ students).
- Co-organized "Robomania" fest for 300+ participants with 100% task efficiency.

## Awards and Certifications

- Reliance Foundation Undergraduate Scholar
- Introduction to IoT – NPTEL, IIT Kharagpur
- Introduction to Machine Learning – NPTEL, IIT Madras