

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; analyzed 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 (Angry, Disgust, Fear, Happy, Sad, Surprise, Neutral) using basic CNNs with TensorFlow and OpenCV for human-computer interaction.
 - Preprocessing images with OpenCV for feature extraction, including resizing and normalization; 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.
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Projects

TaskFlow ([Link](#))

Java, Spring Boot, Spring Data JPA, MySQL, Postman, React

- Built a full-stack app with REST APIs for task creation, update, deletion, and retrieval; implemented priority-based filtering and due-date sorting using Spring Data JPA and MySQL.
- Integrated React frontend for user-friendly task management interface; optimized database queries to reduce response time by 20% through efficient indexing.
- Added basic user input validation with Spring Boot to ensure data integrity; tested APIs with Postman to handle 100+ simultaneous requests.

ShopSphere ([Link](#))

Java, Spring Boot, Spring Data JPA, MySQL, Maven

- Developed REST APIs for product and cart management with full CRUD functionality; designed MySQL schema for products, users, and carts to support e-commerce operations.
 - Optimized API performance by 25% through query tuning and indexing; tested endpoints with Postman to ensure reliability under moderate load.
 - Implemented basic error handling and validation in Spring Boot to improve user experience and prevent invalid data entry.
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Technical Skills

- **Programming:** Python, Java, JavaScript, HTML/CSS, Spring Boot, Spring MVC, TensorFlow, OpenCV, React JS
 - **Tools & Technologies:** MySQL, MongoDB, Git, GitHub, Postman, Maven, Ubuntu, VS Code, IntelliJ, REST APIs, JDBC, OOP, Data Structures, ML (CNNs)
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Position of Responsibility

Editorial Lead, 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.
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Awards and Certifications

- Reliance Foundation Undergraduate Scholar
- Cloud Computing using AWS – E&ICT, IIT Kanpur
- Introduction to IoT – NPTEL, IIT Kharagpur
- Introduction to Machine Learning – NPTEL, IIT Madras