

ROSHNI SHARMA

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## EDUCATION

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**B. TECH in Computer Science, Specialization in Cybersecurity and Digital Forensics**  
Bhopal, IN

**Nov'22 - Present**    **VIT University |**

- **CGPA:** 8.7/10, Aspiring Software Development Engineer with a strong foundation in Computer Science and a domain focus in Cybersecurity and Digital Forensics. Proficient in object-oriented programming, data structures, and software design, with demonstrated success in building secure systems and impactful technical projects. Eager to contribute to scalable backend systems and secure architectures.
- **Involvement in campus life:** Founded and hence managed many initiatives for the NorthEast Club, resulting in a notable increase in student involvement in regional cultural activities.

## PROJECTS

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### Hand Gesture Object Tracking

**Aug'23 - Sep'23**

- **Designed and implemented** a computer vision system enabling intuitive hand-gesture recognition for real-time object tracking, improving user interaction with digital interfaces.
- **Leveraged TensorFlow and MediaPipe pipelines** to build and optimize gesture detection models, ensuring high accuracy and low latency for live applications.
- **Enhanced usability and accessibility** of interfaces by integrating gesture-based controls, reducing dependency on traditional input devices like mouse/keyboard.

### Fake Profile Detection using Multilayer Perceptron (MLP)

**Aug'23 – Oct'23**

- Developed a deep learning-based detection engine in Python with TensorFlow and Keras to identify fake social media profiles across multiple platforms.
- Preprocessed and scaled large datasets using Pandas, Scikit-learn, and NumPy, achieving 90–98% accuracy with optimized MLP architectures.
- Improved model generalization by 12% through dropout, ReLU activations, and softmax layers, with evaluation supported by confusion matrices and precision-recall metrics.

## KEY SKILLS

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**Technical Skills:** Java, Python, JavaScript, SQL, Spring Boot, React.js, Kafka, Docker, Git, VS Code, HTML, CSS, REST APIs, PostgreSQL, MySQL, Elasticsearch, MongoDB, CI/CD, Monitoring & Observability, Kali Linux, Wireshark, Digital Forensics (Basics), Data Structures & Algorithms.

**Certifications:** Python Essentials (VITyarthi), Industrial IoT Markets and Security (Coursera, 2023).

**Extra-Curricular:** Founder (Northeast Club), Hostel Disciplinary Committee Member, School Vice-Captain (Grade 10).

## ACHIEVEMENTS

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- Was awarded Ms. GLAM in GLAM VIT 2025 during Annual College Fest Advitya 2025.