Manisha Gautam

Mathura, Uttar Pradesh
+91-7011890221 themanisha1403@gmail.com manisha14 Gautam-Manisha

Education

GLA University **Aug 2024 – Dec 2028**
Bachelor of Technology , Computer Science with Specialization in AI/ML - ***CGPA : 7.61*** *Mathura, Uttar Pradesh*

Relevant Coursework

- Data Structures and Algorithms
- Operating Systems
- Machine Learning
- Database Management System(DBMS)
- Artificial Intelligence
- Generative AI
- Software Engineering
- Computer Architecture
- Web Development
- Deep Learning
- Frameworks
- Prompt Engineering
- OOP's Concepts

Experience

IIIT Kottayam **18 May 2026 – 30 June 2026**
Research Intern *Kottayam, Kerela*

- Completed an intensive multidisciplinary summer research program covering robotics fundamentals, including probabilistic robotics, linear algebra, calculus and differential equations, fuzzy logic control, and energy engineering for robotic applications.
- Built and simulated robotic systems using MATLAB, Simulink, Keil uVision, and Tinkercad for embedded systems, control algorithms, and probabilistic modeling.
- Gained hands-on experience with embedded systems, Internet of Things, edge computing, cloud integration, and secure data transmission in cyber-physical systems through laboratory sessions and applied robotics projects.

Projects

CrimeWatch AI | ***Generative Video Intelligence & Suspicious Activity Analysis*** **January 2026**

- Developed a CNN-LSTM-based video classification system using ResNet18, PyTorch, and OpenCV to detect four activity classes: Normal, Fighting, Shooting, and Explosion.
- Implemented temporal event aggregation, automated evidence extraction, and FAISS-based Retrieval-Augmented Generation (RAG) with Gemini for contextual incident analysis and investigation Q&A.
- Built a Streamlit-based four-video monitoring interface to visualize activity predictions, confidence scores, and suspicious-event evidence.

Facial-Emotion Detection System | *Python, Tensorflow, OpenCV, Keras, CNN* **January 2026**

- Developed a deep learning-based facial emotion detection system capable of identifying human emotions such as happy, sad, angry, surprise, and neutral from real-time facial expressions
- Built and trained a Convolutional Neural Network (CNN) model using TensorFlow and Keras, with OpenCV for face detection, image preprocessing, and live webcam integration.
- Implemented real-time emotion prediction with optimized preprocessing and classification pipelines, improving detection accuracy and inference speed for live video streams.

Technical Skills

Languages: Python, Java, C, HTML/CSS, JavaScript, SQL, React , Node js
Developer Tools: VS Code, Intellij, Google Collab, Eclipse
Technologies/Frameworks: Git, GitHub, Flask , Django

Leadership / Extracurricular

Cyberonites **Sept 2026 – Present**
Financer *GLA University*

- Managed event finances, budgeting, expense tracking, and procurement while ensuring efficient utilization of funds and maintaining accurate financial records.

Public Speaker **Full Time**
Anchor *GLA University*

∗ Served as an anchor for multiple technical and public-speaking events, including Cyber Quest 2025, Triwizardathon 2025, Prarambh 2025, EscalateX 2025, Intrusion X 2026, and TRACEOPS 2026, facilitating event proceedings and audience engagement.

Certifications

Microsoft Azure Fundamentals (AZ-900) **Jan 2025**

Microsoft Azure AI Fundamentals (AI-900) **Dec 2025**

Microsoft Certified: Fabric Data Engineer Associate (DP-700) **Sept 2026**