

SAKSHI TRIPATHI

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CAREER OBJECTIVE

Aspiring AI/ML professional with a strong academic foundation in computer science and hands-on experience in machine learning and computer vision projects. Seeking opportunities to apply analytical thinking, programming expertise, and research-oriented learning in a rigorous, innovation-driven environment.

EDUCATION

Pursuing Master of Computer Applications (MCA)

I.K. Gujral Punjab Technical University (IKGPTU)

2025-2027

Bachelor of Computer Applications (BCA)

Punjabi University, Patiala

2023–2025 | Percentage: 78%

TECHNICAL SKILLS

- **Programming Languages:** Python, C, C++, Java
- **Machine Learning & AI:** Supervised & Unsupervised Learning (Basics), Computer Vision, Data Analysis
- **Web Technologies:** HTML, CSS
- **Core CS Concepts:** Data Structures, Discrete Mathematics, Object-Oriented Programming
- **Tools & Platforms:** VS Code, GitHub, Windows

PROJECTS

Web Scraping Application

- Designed and implemented a Python-based web scraping pipeline to collect and preprocess structured data from multiple web sources.
- Utilized BeautifulSoup and Requests to automate data extraction, improving efficiency and reliability.
- Link: [news scraping](#)

Object Detection System

- Developed an object detection model to identify and localize objects in images and video streams.
- Applied computer vision techniques to understand real-world applications such as monitoring and automation.
- Link: [yolo-object-detection](#)

Face Detection System

- Implemented a real-time face detection system using OpenCV.
- Analyzed image-processing techniques to strengthen understanding of computer vision fundamentals.
- Link: [face-detection](#)

Mental Health Issue Detection (Minor Project)

- Built a prototype system to analyze patterns in data for early identification of potential mental health concerns.
- Emphasized ethical use of AI and technology-driven awareness solutions.
- Link: [mental-issue](#)

CERTIFICATIONS & INTERNSHIP

- Python Essentials – Cisco Networking Academy (**certified**)

NIELIT – IIT Ropar | AI/ML Intern (July 2025 – December 2025)

- Worked on Artificial Intelligence and Machine Learning concepts in an academic research environment.
- Applied Python-based techniques for data analysis and introductory machine learning model development.
- Gained exposure to research-oriented workflows, experimentation, and structured problem-solving methodologies.

ACHIEVEMENTS / ACTIVITIES

- Participated in technical workshops and seminars related to computer science and AI.
- Actively engaged in academic projects and continuous skill development.