

# GAURAV TIWARI

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## Education

### Graphic Era Hill University, Bhimtal Campus

Bachelor of Technology in Computer Science Engineering (CGPA: 8.27)

Oct 2022 – June 2026

Haldwani, Uttarakhand

### Nirmala Convent Sr. Sec. School

Intermediate (Class 12)

Apr 2020 – Mar 2022

Haldwani, Uttarakhand

## Experience

### Aryabhata Research Institute of Observational Sciences (ARIES)

Jan 2025 – Apr 2025

Nainital, Uttarakhand

### Defence Research and Development Organisation(DRDO)

July 2025 – Aug 2025

Haldwani, Uttarakhand

## Projects

### Image text extraction,translation and audio output

April 2024

Technologies: EasyOCR, Deep Translator

[GitHub Link](#)

- \* Designed a web application enabling users to extract text from images with 95% accuracy.
- \* Implemented keyword highlighting, which reduced document search times by over 30%.
- \* Implemented audio output feature for user convenience.

### Hand Sign Recognition System

Jan 2024

Technologies: OpenCV, NumPy, CVZone

[GitHub Link](#)

- \* Developed a system achieving 92% accuracy in recognizing hand gestures.
- \* Tested and refined the model using a dataset of 5,000 hand gesture images.

### Object Detection for Smart Surveillance

May 2023

Technologies: OpenCV, Machine Learning

[GitHub Link](#)

- \* Developed a multi-object tracking model tailored for complex and constantly changing environments, improving detection accuracy by 15%.
- \* Enhanced object recognition accuracy by training on COCO and custom datasets.
- \* Implemented real-time alerts for detecting unauthorized access in surveillance videos.

## Achievements and Extracurricular Activities

The Joy of Computing Using Python: NPTEL (Silver Medalist)

Python for Data Science: NPTEL

Participation in Kshitij: Annual Techno-Management Fest, IIT Kharagpur (AI Hackathon and Green AI Hackathon)

NSS Volunteer

May 2022 – Sep 2024

National Service Scheme

Bhimtal

Head of Student Placement committee

May 2024 – Sep 2026

Graphic Era Hill University

Bhimtal

## Technical Skills

- **Programming Languages:** Python,C, C++, SQL,javascript,html,css,MongoDB
- **Tools & Frameworks:** VS Code, PyCharm, spider,Git,Github,Appwrite
- **Core Concepts:** Machine Learning, Data Structures, Algorithms, Database Management Systems (DBMS), Network and Security.