

# Isha Hitang

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## About

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Enthusiastic software engineering student with strong skills in C,C++, Java, Python and HTML/CSS/JS. I have excellent analytical and mathematical abilities, enjoy solving logical problems, and thrive in collaborative team environments. Prioritizing effective communication. I am dedicated to ongoing learning and improvement.

## Education

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**PoU, Nepal College of Information Technology(NCIT)** *2021 – Oct.2025(expected)*  
*BE in Software Engineering*

- Full Scholarship
- GPA: 3.84/4.0
- **Relevant Courses:** DSA,Computer Organisation and Architecture,Computer Graphics, Microprocessor, OOP, AI, Computer Network, Data Warehousing and Data Mining

## Experience

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**Software Intern** *Itahari, Nepal*  
*Python* *Nov 2023 – Feb 2024*

- Collaborated within diverse teams on various Django and Python projects, fostering leadership qualities and honing communication skills.

**Organizer at TEDxNCIT** *Kathmandu, Nepal*  
*Role: Speaker and Tech Support* *Dec 2025*

- Assisted speakers in delivering an excellent experience by providing support with presentations and technical tools.

**Volunteer at NOSK** *Kathmandu, Nepal*  
*Role: Workshop, Session Organizer* *April 2021 – Present*

- Organized and managed various workshops, inspiring thousands of students to engage in technology and innovation

## Achievements

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**AI4GROWTH Coding Challenge(Winner)** *Feb. 2024*

- Developed a mobile application that allows users to capture images of heritage sites. Upon detecting a heritage site, it identify and automatically opens the corresponding URL for more information
- Tools Used: Flutter, YOLO

**Forewarn Disaster Hackathon Nepal(1st Runner Up)** *Nov. 2024*

- Developed a web application for wildfire management.
- Tools Used: Clustering, Streamlit

**Yantra Softbot Hackathon(1st Runner Up)** *2024*

- Developed a Bill Scanner app that captures and stores bill details or records.
- Tools Used: OCR, OpenCV

**NCIT Hackfest(1st Runner Up)** *2024*

- Developed a web app delivers prompt reminders for child vaccination appointments upon reaching scheduled vaccination dates.
- Tools Used: Django, NestJS

## Other Achievements

- Deep Learning Coursera Specialization Course: [View Certificate](#) 
- Fusemachine AI/ML Fellow 2025
- Completed 40-Hour UGC Technopreneurship Course securing grade B+ — 2023
- Participant at Female Youth Leadership Conference organized by Youth Advocacy Nepal. — 2023
- Participant at NASA International Space Apps Challenge. — 2023

## Active Projects

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### THE AI-POWERED TUTA ABSOLUTA DETECTION AND ALERT SYSTEM

2025

*NAST Young Scientist*

- Selected project name 'The AI-powered Tuta Absoluta Detection and Alert System'.
- The project aims to provide early warning to farmers against the devastating tomato leaf miner moth, Tuta Absoluta, using object detection and IOT technology by sending SMS alerts to their mobile phones.

### REAL-TIME AUDIO FEEDBACK FITNESS TRAINER

2025

*Independent Project*

- An AI-powered virtual fitness coach that guides users through exercises and provides real-time audio feedback.
- Integrates computer vision for pose estimation and voice synthesis to correct form and motivate users live during workouts.

## Projects

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### Quicktraffic

*Aug. 2024*

- Assists in detecting and recognizing license plates of various types of vehicles, including buses, cars, motor-bikes, trucks, and temporary plates
- Tracks and counts the total number of vehicles entering and exiting
- Tools Used: Python, Streamlit, YOLOv8

### Sentiment analysis

2024

- Predict tweet sentiment (positive , neutral , or negative ) based on user input.

### HostelmanduNpl

*Dec. 2023*

- Aims to assist students in finding their ideal hostels at their preferred price range and near their college.
- Tools Used: Python, Streamlit

### Khop

*Jan 2023*

- - Delivers prompt reminders for child vaccination appointments upon reaching scheduled vaccination dates.
- Tools Used: Django, NestJS

### Image Recogniton app

2023

- Helps to detect the different heritage building and open the corresponding url of the heritage buildings, implemented yolov8.

### Safa-Sahar

*Feb 2023*

- Uses ultrasonic sensors to alert waste collectors after bins get full, optimizing routes, saving fuel, and keeping your city clean and healthy.
- Tools Used: NestJS

### SearchSpace

*Oct. 2023*

- Uses Open API provided by NASA Space Agency, refactor them and fetch APIS in frontend to search space and view different space researchers and resources.

## VotingSystem

*Dec. 2023*

- Help citizens to vote digitally in elections made using basic concepts of python.

## Technologies

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**Skills:** Git/Github, Python, JavaScript, C/C++,SQL/NOSQL, Bootsrap, Leadership and Communications

**Technologies:** Microsoft SQL Server