Unika Ghimire *CS Student*

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Profile

I am a Computer Science student with an interest in AI, Machine Learning, and IoT. I enjoy building projects, solving problems using technology, and have participated in various hackathons. I have a good problem-solving, teamwork, and communication skills.

Professional Experience

2025 – present — **Executive Member**
Oratory Club, SSRC
As an executive member of the Oratory Club, I help organize events, promote public speaking, manage logistics, and encourage participation.

2024 – present — **Data Fellow**
Sunway Student Research Center
I gained free access to a DataCamp account, allowing me to learn premium courses like Machine Learning and Python.

Skills

Python Programming
OOP, Flask

Problem-Solving
Logical Thinking, Debugging, Critical Analysis

MS Word
Document Formatting, Reports

Presentation
Slide Design, Public Speaking Aids

Leadership Skills
Team Management, Event Organization, Decision-Making

Communication
Public Speaking, Technical Writing, Team Collaboration

Canva
Graphic Design, Posters

Figma
UI/UX Design, Wireframing, Prototyping

Education

11/2024 – present — **BSc. (Hons) in Computer Science and Artificial Intelligence, Computer Science**
Sunway College Kathmandu

2022 – 2024 — **+2 Science**
GEMS School

Projects

NeuroVision
Machine Learning model to predict Brain Tumor
A Machine Learning model for brain tumor prediction analyzes medical imaging data (such as MRI scans) to detect and classify tumors. It uses techniques like deep learning, image processing, and feature extraction to identify patterns and assist in early diagnosis, improving accuracy and speed in medical decision-making.

Smart Traffic Management System

IOT based Traffic Flow Optimization System

This project focuses on optimizing traffic flow using a smart traffic light system based on vehicle density. It utilizes ultrasonic sensors, LEDs, and an ESP32 to dynamically adjust signal timings, reducing congestion. Additionally, a web-based dashboard provides live traffic analytics, alternative route suggestions, and traffic predictions using data analysis. The system enhances urban traffic efficiency, minimizes wait times, and improves road safety.

References

Sanket Shrestha, *Vice-President,* SSRC
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Udit Kumar Mahato, *President,* Rotaract Club of Budhanilkantha
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