

# Utsav Acharya

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## WORK EXPERIENCE

### Backend Engineer and Data Scientist

11/2023 – present

Omdena

Participated as data analyst and backend developer in following projects:-

- 1) Combatting illegal deforestation in Romania
- 2) Mapping Seagrass Meadows
- 3) Agriculture Analysis on Kenya

### Data Science and Business Analytics Intern

09/2023 – 10/2023

The Sparks Foundation

- Created raspberry pi app for **Tomato Disease Classification**
- Did **Exploratory Data Analysis on IPL 2023**

## ACADEMIC PROJECTS

### Volt Vision

Energy demand forecasting for Nepal households.

- Used pandas for data analysis and **xgboost** for demand forecasting.
- Used **sarimax** and **arimax** model for time series analysis and price forecasting.

### Rakhsak

An all-in-one safety application designed to provide **real-time updates** on accidents, floods, and other hazards.

- Used **nextjs** for frontend
- Used **fastapi** as backend with mongodb dataset
- Use **beautiful soup** for webscrapping

### Compliance Guide

The Compliance Guide saves you countless hours by simplifying complex policy documents and compliance frameworks, helping you ensure seamless security and a gap-free product.

- Used **ollama** for summariser
- Increased accuracy to upto 95% using **RAG**
- Used locally hosted **llma** as comparator
- Used streamlit for creating dashboards.

## EDUCATION

### Bachelors in Computer Engineering

2023 – present

Pulchowk Engineering Campus

Kathmandu, Nepal

### High School

2021 – 2023

Capital College and Research Centre

Kathmandu, Nepal

GPA: 3.91 + 3.73

## AWARDS

### Specialist, National top 10

2024

Codeforces

### Tribhuwan University Merit-Based Scholarship

2023

Tribhuwan University

### National IT Olympiad Silver Medalist

2022

STEM, Nepal

## SKILLS

**Languages** — Python, C, C++, Javascript

**Frameworks** — Numpy, Pandas, Flask, Fastapi, Django, Matplotlib, Seaborn, Scikit Learn, Tensorflow, OpenCV, Spacy, React

**Developer Tools** — Git, Docker, VS Code, Tableau