

# Utsav Acharya

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An ever learning **Computer Engineering** student with a strong foundation in **Mathematics**, **Data Science**, **Machine Learning**, and **Backend Development** fundamentals and person with an urge for continual learning, problem solving and innovation.

## WORK EXPERIENCE

**Student Trainee** 04/2025 – Present  
NAAMI

Conducting computer vision research in the physics lab focused on:

- **Disease detection** in rice crops
- **Behavioral monitoring** of poultry

**Backend Engineer and Data Scientist** 11/2023 – present  
Omdena 📄

Participated in the following real-world deployed projects:

- **Combatting illegal deforestation in Romania** 📄
- **Mapping Seagrass Meadows** 📄
- **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

**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 **Llama** for summariser
- Increased accuracy to upto 95% using **RAG**
- Used locally hosted **Llama** as comparator
- Used **Streamlit** for creating dashboards

**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.
- Deployment Pipelines for Energy Demand Forecasting System using ZenML/MLflow

**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 webscraping

**Guardian Shield** 📄

Guardian-Shield is a browser extension designed to enhance your online security by detecting and preventing common fraud and phishing attempts in your emails.

- Used **Chrome apis** for extension
- Used **Bert Transformer** and **Pytorch** for spam detection
- Use **Peagsus Transformer** and pytorch for terms and conditions summarizing.

## EDUCATION

**Bachelor's in Computer Engineering** 2023 – present  
Pulchowk Engineering Campus Kathmandu, Nepal  
Average Percentage: 82.4

**High School** 2021 – 2023  
Capital College and Research Centre Kathmandu, Nepal  
GPA: 3.91 + 3.73

## SKILLS

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**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

## AWARDS

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<b>National IT Olympiad Silver Medalist</b> <i>STEM, Nepal</i>	2022
<b>National Hackathon Winner</b> <i>LOCUS</i>	2024
<b>Runner UP:- Nepal Hacks</b> <i>Security Pal, NAAMI</i>	2024
<b>Specialist, National top 10</b> <i>Codeforces</i>	2024
<b>Tribhuvan University Merit-Based Scholarship</b> <i>Tribhuvan University</i>	2023
<b>National Physics-Mathematics Olympiad Bronze Medalist</b> <i>SOMES Nepal</i>	2021

## CERTIFICATES

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- Google Advanced Data Analytics [🔗](#)
- IBM Data Science Professional Certificate [🔗](#)
- Stanford Machine Learning Specialization [🔗](#)
- Tensorflow Developer Professional Certificate [🔗](#)
- Meta Backend Professional Certificate [🔗](#)

## RESEARCH INTERESTS

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- Computer Vision for Agriculture and Environmental Monitoring
- Natural Language Processing for Compliance and Policy Analysis
- AI-based Risk Assessment and Automation

## LEADERSHIP & EXTRACURRICULARS

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<b>Data Research Council For Students</b> <i>Core Member</i> <ul style="list-style-type: none"><li>• Mentored <b>200+</b> students in <b>intermediate Python</b>, providing guidance and support to help them improve their skills.</li><li>• Managed <b>GitHub</b> repositories, <b>social media</b> accounts, and <b>Discord</b> servers, ensuring that these platforms were up-to-date and effectively engaged with our community.</li></ul>	11/2022 – 12/2023
<b>Together We Learn</b> <i>Co founder</i> <ul style="list-style-type: none"><li>• Co-founded and led an organization of <b>500+</b> members</li><li>• Conducted <b>5+</b> <b>webinars</b> on programming-related topics, sharing knowledge and insights with a broad audience.</li><li>• Wrote <b>10+</b> <b>newsletters</b> focused on <b>data science</b> and <b>programming</b> in general, providing valuable information and updates to <b>200+</b> <b>subscribers</b>.</li></ul>	03/2022 – 08/2023