

Unique Shrestha

Final-year Computer Engineering student with a strong foundation in Python, machine learning and web development. Seeking to collaborate with a dynamic team to gain practical experience and contribute to innovative projects.

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EXPERIENCE

Set Your Trade – Web Developer

2024/25

- Gained experience in web development, user interface design, and collaboration with a growing company.
- Utilized React for frontend, Django for backend and PostgreSQL for the database management.

[/SYT](#)

PROJECTS

Multimodal malware analysis and classification

- a malware detection system combining static and dynamic analysis with machine learning.
- Utilized CNNs for image-based classification and RNNs for sequential data analysis.
- Adopted a multimodal approach to enhance detection accuracy and adaptability.

[/AEGIS](#)

JUNU

- Built a bilingual voice assistant using OpenAI and Azure's Speech-to-Text and Text-to-Speech models to help users navigate Nepali government services.
- Used React.js, FastAPI, and voice tech to create an accessible, user-friendly interface for all citizens.

[/junu](#)

LegalSathi

- Developed a chatbot using LLMs (Meta Llama 3 70B) and Retrieval-Augmented Generation (RAG) to provide legal document explanations, advice, and rights assistance in Nepal.
- Utilized React.js for the frontend, FastAPI for backend logic, and ChromaDB for embedding storage.

[/legalsathi](#)

SKILLS

Language and Tools:

Python, JavaScript, MySQL/SQL server, Postgres, MATLAB, Git

Frameworks:

Tailwind, React, FastAPI, Pytorch, Django

Libraries:

Numpy, Pandas, Mathplotlib, Scikit-learn

EDUCATION

Bachelors in Computer Engineering

Khwopa College of Engineering , Bhaktapur
April 2021 – April 2025

+2, Science

Kathmandu Model College
April 2018 – April 2020

LANGUAGES

- English
- Nepali

STRENGTHS

- Strong Communication Skills
- Team player
- Time Management
- Consistent

Facial-Keypoint Detection

- Built a system to detect facial landmarks using a modified VGG16 model with PyTorch.
- Included dataset preparation, transfer learning, and result visualization for facial recognition and emotion detection.

[/facial-key-point](#)

Image Steganalysis using Ensemble Classifier

- Built a model to detect steganographic image (message hidden inside image).
- Employed an Ensemble Classifier with FLD as the base learner.

[/steganalysis](#)

INVOLVEMENTS

Semi;Colon Hackathon 2025 – AI Track Winner

- Participated in a 48-hour hackathon and won AI track which was organized by King's College. We built JUNU—a bilingual AI assistant that helps citizens navigate government processes by providing step-by-step guidance through voice and chat.

A-one cafe marketing Team 2025 – Design Team

- Designed social media graphics, event materials, and banners while collaborating with different A-One branches to ensure consistent branding and coordination.

Hack The Circle: Khwopa 2024 - Organizing Committee

- Designed social media graphics and event banners, collaborated with the organizing team to execute a successful competition, enhancing teamwork and communication skills.

2024 Codewave Hackathon - Kathmandu University

- Participated in 24-hour hackathon organized by Kathmandu University Computational Mathematics Club, focusing on the provided SDG goals and developed **legalsathi** chatbot

Hult Prize at KhCE, 2023/24 – Design Lead

- Led the team to design and execute the Hult Prize competition at Khwopa College of Engineering in 2023/24, honing my leadership, teamwork, and communication skills.