

Diwas Shrestha

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Introduction

I am a passionate and driven individual with a strong interest in artificial intelligence and its potential to solve real-world problems and empower communities. Currently pursuing a **B.Tech. in Artificial Intelligence** at Kathmandu University, I have actively contributed to the AI ecosystem through various roles, including organizing workshops, hackathons, and webinars to promote AI awareness and education. My core competencies include problem-solving, communication, teamwork, and creativity, and I am motivated by the transformative potential of AI across diverse industries.

Education

Kathmandu University (KU), B. Tech in Artificial Intelligence Expected 2026

Coursework: Machine Learning, Artificial Intelligence, Data Mining & Pattern Recognition, Data Science, OOP, DSA, Database Management, Linear Algebra, Probability & Statistics, Optimization Theory, Discrete Structures, Cloud Computing, Cyber Security

Valmiki Shiksha Sadan, +2 in Computer Science 2020 - 2021

Experience

Lamida (Full Time, Remote) Aug 2025 – Present

L2 - Subnet AI Developer (Mar 2026 – Present)

Subnet AI Developer (Aug 2025 – Feb 2026)

- Architected and developed end-to-end subnet logic on the Bittensor network, designing miner behaviors, core validation logic, and custom incentive mechanisms.
- Engineered robust backend infrastructure to seamlessly integrate user-facing products with underlying decentralized subnets.

RESI Labs | *Subnet AI Developer* (Contract, Remote) Sep 2025 – Nov 2025

- Worked on decentralized real-state sales data collection including miner and validation logics with robust incentive mechanism to prevent exploits in Bittensor Ecosystem.

BlockLabsAI | *AI Engineer* (Contract) Jun 2025 – Jul 2025

- Engineered end-to-end data pipelines, encompassing data collection, preprocessing, and custom model training.
- Deployed highly available AI models into production environments using FastAPI, minimizing inference latency.

Projects

Multi-Agent Traffic Signal Optimization(MATSO) for Nepal 6th Semester Project

- Minimizing traffic at busiest intersection in Nepal (Koteshowr Corridor) through MATSO
- Tools Used: Python, Pytorch, SUMO

Trek Sathi: Your Travel Companion App 4th & 5th Semester Project

- Working on revolutionizing tourism industry through AI.
- Beta Testing: play.google.com/TrekSathi
- Tools Used: Flutter, Python, Django, Django REST Framework, Figma, Laravel, GeminiAPI, OpenStreetMap

MinIO Implementation in Kubernetes AISSRLab Deployment

- Deploying MinIO on Kubernetes for scalable and secure object storage for AI/ML data.
- Ensuring efficient data management and access to data through IAM Policies.
- Tools Used: Kubernetes, MinIO, Docker, Nginx

KU Krishi

Third Semester Project - KU

- KU Krishi is an innovative mobile application that integrates multiple AI models to enhance agricultural efficiency, productivity, and sustainability.
- Semi-finalist at Social Innovation ICT Award 2024.
- Download Now: play.google.com/KUKrishi
- Tools Used: Flutter, Python, Django, Django REST Framework, Computer Vision, Transformers, Figma

Automatic Home Surveillance System

Side Project

- Implemented AI-based home security with face recognition & tracking.
- Achieved 95% accuracy using SCRFD for recognition & DeepFace for authentication.
- Stores entry-exit logs in a secure SQLite database.
- Tools Used: Python, Pytorch, SQLite

Devanagari Number Plate Detection and Recognition

Second Semester Project - KU

- Trained YOLOv7 model on custom datasets to create Devanagari Number Plate Detection and Recognition model.
- Result: Accurately extracts vehicle number plates and displays the devanagari characters.
- Tools Used: Python, Pytorch, YOLOv7

Network Attached Storage (NAS) Server

Side Project

- Made NAS server using 2×1TB hard drive and RaspberryPI
- Utilized OpenMediaVault for network attach feature and quick storage expand and release feature, and NextCloud for multi-device control and collaboration.
- Tools Used: Linux, OpenMediaVault, NextCloud

Emailify: Secure Mass HTML Email Sender

Side Project

- Developed a secure and efficient HTML email sender for automated marketing campaigns.
- Visit: Offline for now
- Tools Used: Python, Streamlit

Volunteer Experience

Social Media and Data Management Lead, Artificial Intelligence and Smart System Research Lab (AISSRLab), Kathmandu University

Jan 2025 – Present

- Part of student board of volunteers
- Leading Social Media and Data Management Committee

Microsoft Student Ambassador, Microsoft

Jul 2023 – Present

- Conducted 10+ technical workshops, training 100+ students at Kathmandu University.
- Built a community of developers, mentoring students on Git/Github, Azure AI, cloud computing, and ML model deployment

Student Volunteer, Nepal Cloud Professionals (NCP)

Dec 2024 - Jul 2025

- Part of Board of Volunteers at NCP
- Organized Ideathon Kathmandu for Microsoft Imagine Cup 2025

Secretary, Kathmandu University Artificial Intelligence Club(KUAIC)

Dec 2023 - Jan 2025

- Organized Datathon 2.0: Data Driven Innovation Transforming Tomorrow (September 1, 2024)
- Organized AICrusade 2024, 2nd iteration of Nepal's first university students led AI Hackathon (November 30 - December 1, 2024)
- Organized AI Meet 2024, 2nd iteration of KUAIC's annual event (December 14-15, 2024)

Founding Executive, Kathmandu University Artificial Intelligence Club(KUAIC)

Jun 2023 – Dec 2023

- Served as a Founding Executive at KUAIC
- Organized AICrusade 2023, Nepal's first university student led AI Hackathon (September 3-4, 2023)

- Organized KUAIC's annual event AI Meet 2023 (September 9-10, 2023)

Certifications

Machine Learning Specialization – DeepLearning.AI, Stanford University <i>Credential URL: W17B83YNNNG3J</i>	Issued Aug 2024
Unsupervised Learning, Recommenders, Reinforcement Learning – DeepLearning.AI, Stanford University <i>Credential URL: Q5D5A3MQNEAJ</i>	Issued Aug 2024
Advanced Learning Algorithms – DeepLearning.AI, Stanford University <i>Credential URL: CSVYKLRNPJAN</i>	Issued Aug 2024
Supervised Machine Learning: Regression and Classification – DeepLearning.AI <i>Credential URL: VU8UP4E5F3VH</i>	Issued Jul 2024
Artificial Intelligence Foundations: Neural Networks – LinkedIn Learning <i>Credential URL: linkedin.com/learning/certificates/fa...</i>	Issued Jun 2024
QxQ's Introduction to Quantum Computing – The Coding School <i>Credential URL: Two Sem Program Certificate - Click Me</i>	Issued May 2024
1st Dan Black Belt – KUKKIWON <i>Credential ID: 09556541</i>	Issued Apr 2018

Technologies

AI/ML: PyTorch, TensorFlow, Computer Vision (YOLO, SCRFD, DeepFace), Transformers, Gemini/OpenAI API, Machine Learning Algorithms

Programming Languages: Python (Advanced), C/C++ (Intermediate), SQL, PHP, HTML/CSS, Bash

Frameworks & Development: Django, Django REST Framework, Laravel, Flutter, Streamlit

DevOps & Cloud: Docker, Kubernetes, MinIO, Azure, Linux (Arch, Ubuntu, CentOS, Pi OS), Git/GitHub

Databases & Storage: MongoDB, MySQL, SQLite, OpenMediaVault, NextCloud, Network Attached Storage (NAS)

Design & Productivity: Figma, Microsoft Office (PowerPoint, Excel)

Soft Skills: Leadership, Communication, Teamwork, Problem Solving, Time Management, Presentation