Nigam Niraula

✉ nigam21nir@gmail.com   📞 +919380985253   🔗 nigamniraula.com.np   in /nigam-niraula-564208215   ⬡ /ninix07

Professional Experience

2023/11 – 2024/08 Dhulikhel, Nepal	**Dynamic Image Tagging Project** *Research Intern* • Worked on image detection using CNN and image generation for a given tag using GAN Project Manager: Mr. Dhiraj Shrestha, Assistant Professor, Kathmandu University.
2023/07 – 2024/02 Dhulikhel, Nepal	**Kalpex AI** *Front End Developer* • Worked On Frontend for a Farm App using React Native Project Manager: Mr. Anurag Timalsina
2021/10 – 2022/06 Cambridge,MA, USA	**Digi Papyrus** *Full Stack Developer* • Worked on Frontend using React and Backend using NodeJs Project Manager: Dr. Prajwal Niraula

Education

2024/08 – present Hyderabad, Telangana, India	**B. Tech in Computer Science And Engineering** *Indian Institute of Technology, Hyderabad* Academic Exchange Student from KU for Final Year
2020/03 – 2024/08 Dhulikhel, Nepal	**Bachelors in Computer Engineering** *Kathmandu University School of Engineering* **CGPA** 3.95/4

Publication

Hybrid Approach for Enhancing Traffic Signal Control with Computer Vision and Reinforcement Learning ↗

2023 14th International Conference on Computing Communication and Networking Technologies (ICCCNT)

Skills

Technical

TensorFlow, PyTorch, Python, Scikit, Keras, Numpy, Pandas, SQL, Javascript, React, NodeJs, C++, GIT, Bash

Research

Deep Learning, Machine Learning, Computer Vision

Projects

Autoffic ↗

A software for automating the traffic flow of an intersection by controlling the traffic lights via the input through **Computer Vision** and output through **RL**.

Prabigya ↗

VS code extension to suggest variable names based on the comment by programmers for enhancing readability of program by using **LLM (Bard)**.

Farm App ↗

Farm App is a inventory management app made using **React Native** for chicken farms to manage eggs, chicken and chicken's feed, water, light, etc.

Ayureye ↗

Ayureye is a CAD (Computer aided Detection and Diagnosis) system that detects COPD (Common Obstructive Pulmonary Disease) implemented using **ReactJs**, **Django** and **YOLO** architecture.

Prophesy ⧉

A battery monitoring system powered by **RUST** and **ML** for motoring battery status and predicting the battery status using neural network and regression algorithms

SwiftCart ⧉

An e-commerce application that provides a platform for vendors to list their products, customers to browse and purchase items, and facilitate reviews for products utilizing **MERN**.

Certificates

Microdegree™ in Artificial Intelligence ⧉
Fusemachines AI Fellowship 2024

Programming Fundamentals
Duke University, Coursera

Supervised Machine Learning: Regression and Classification
Dr. Andrew NG, Coursera

Effective Public Speaking Training(EPS)
JCI Kavre

Leadership and Activities

- Recipient of AI Fellowship by Fusemachine
- Selected in top 50 participants of Kathmandu Idea and Innovation(KMII)-2080
- Participated as panelist in Scholar Talk-2023 held by Kathmandu University Civil Engineering Club(KUCEC)