

# Nigam Niraula *Student, Researcher, Programmer*

✉ [nigam21nir@gmail.com](mailto:nigam21nir@gmail.com)

☎ +9779843429212

📍 Suryabinayak-5, Sallaghari, Bhaktapur, Nepal

🌐 <https://www.linkedin.com/in/nigam-niraula-564208215/>

🔗 <https://github.com/ninix07>

🔗 <https://nigamniraula.com.np/>

## Professional Experience

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2023/11 – Present  
Dhulikhel, Nepal

### Dynamic Image Tagging Project

*Intern*

- Worked on image detection using CNN
- Worked on image generation for a given tag using GAN

Project Manager:

Mr. Dhiraj Shrestha, Assistant Professor, Kathmandu University.

(Contact: +977 9840052596).

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

(Contact:+9779861285984)

2021/10 – 2022/06  
Cambridge,MA, USA

### Digi Papyrus

*Junior Full Stack Developer*

- Worked on Frontend using React
- Worked on Backend using NodeJs

Project Manager:

Dr. Prajwal Niraula

(Email:pniraula@mit.edu)

## Education

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2020/03 – Present  
Dhulikhel, Nepal

### Bachelors in Computer Engineering

*Kathmandu University School of Engineering*

CGPA 3.95/4

## Publication

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### 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

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### Technical

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

### Research

Deep Learning, Machine Learning, Computer Vision

### Soft Skills

Communication, Teamwork, Problem-Solving,  
Adaptability

## Projects

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### 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 [↗](#)

A simple 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, Djnago 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

### Digi Papyrus [↗](#)

Digi-papyrus is a web-based application designed for managing and organizing digital documents, enabling users to easily access information formatted according to their academic or understanding level, utilizing a client-server architecture with ReactJs and NodeJs.

### SwiftCart [↗](#)

A simple 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.

### Play Tetris [↗](#)

PlayTetris is a C++ and QT based project that implements a playable version of the classic Tetris game, featuring a graphical user interface for user interaction and game controls.

## Certificates

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### Supervised Machine Learning: Regression and Classification

*Dr. Andrew NG, Coursera*

### Python For Everybody

*Dr.Charles Severance, Coursera*

### Programmming Fundamentals

*Duke University, Coursera*

### Effective Public Speaking Training(EPS)

JCI Kavre

## Leadership and Activities

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- 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)

## Languages

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### English

*Proficient*

### Nepali

*Native*

### Hindi

*Fluent*