Anurag Timilsina

Student, Researcher, Programmer

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in https://www.linkedin.com/in/anurag-timilsina-915a3a1b3/

⚓ https://anuragtimilsina.github.io/portfolio/   🐙 https://github.com/AnuragTimilsina

EDUCATION

Bachelors in Computer Engineering
Kathmandu University School of Engineering
08/2019 – present | Dhulikhel, Nepal
CGPA- 3.49 (Until 6th semester)

GCE Advanced Level (Cambridge Board)
Kathmandu University High School - Alevels
06/2016 – 06/2018 | Chaukot, Nepal
Computer Science - 82, Mathematics - 81, Physics - 73, English General Paper - 71, Chemistry - 65.
Total Percentage - 74.4%

SKILLS

Technology
TensorFlow, PyTorch, Python, Django, Django Rest Framework, Flask, FastAPI, Javascript, React, C++, CUDA, Slurm, GIT, Bash

Research
Latex, Documentation, Deep Learning, Machine Learning, Computer Vision, HPC system administration, Software engineering

Other skills
Leadership, Mentorship, Time Management, Teamwork, Logistics Management.

PROJECTS

AyurEye 🔗
Research prototype of CAD application that detected TB infection patterns in radio images with computer vision models.

RadNep 🔗
Educational radiology mobile application to render CT images and ask relevant questions to radiology students and professionals. The app is published in both Play Store and App Store.

Inventory Management System, Kusum Agarbatti PVT Ltd. 🔗
An effective commercial software for inventory tracking and sales analytics for Kusum Agarbatti PVT Ltd.

Aagoo 🔗
A portable forest Fire detection device. It is a computer vision model to detect forest fires and provides a hardware-accelerated feedback system.

KULoader 🔗
An open source download manager made with libaria and QT framework in C++ (Semester Project).

PROFESSIONAL EXPERIENCE

Researcher - KUHI
Kathmandu University Department of Health Informatics
11/2022 – present | Dhulikhel, Nepal
- Researched Lower respiratory infections.
- Developed computer vision models to detect infections in radio images.
- Developed computer vision models to detect infections in radio images.

Supervisor:
- Dr Rabindra Bista, Associate Professor, Kathmandu University. (Contact: +977 9849476579).

Machine Learning and Data Science Community Leader - KUOSC
Kathmandu University Open Source Community (KUOSC)
02/2023 – present | Dhulikhel, Nepal
- Organized machine Learning fundamentals workshop.
- Instructed Python programming workshop for graduate Health Informatics scholars.
- Technical volunteer for WiDS(Women In Data Science)

Co-ordinator:
- Mr Aadarsha Dhakal, KUOSC co-ordinator (Contact: +977 9869698962)

Machine Learning Engineer (Part time, Remote)
Neerox.ai
01/2023 – 06/2023 | Dallas, Texas, USA
- Developed computer vision models to detect several classes of liquors.
- Developed bottle counting script for each classes.
- Developed API and integrated with the Point-of-sale(POS) system.

Project Manager:
- Mr Sandesh Panday, Project Manager at Neerox.ai (Contact: +1 469-349-4433)

Undergraduate Research Assistant - KUHPC
Kathmandu University High Performance Computing (Super Computer)
02/2022 – 11/2022 | Dhulikhel, Nepal
- Configured GPU clusters for deep learning.
- Administered parallel cluster nodes of the supercomputer.
- Deployed prototype of educational video conferencing platform in parallel nodes.

Supervisors:
- Dr Rajendra Adhikari, Department of Physics and Natural Sciences (Contact: +977 9801039635)

PUBLICATIONS

Advancing Tuberculosis Detection in Chest X-rays: A YOLOv7-Based Approach 🔗
MDPI Information

Comparing Lumbar Puncture Opening Pressure and Optic Nerve Head Height using AI 🔗
Conference paper on ARVO 2024 (ARVO Abstract 4050119)

CERTIFICATES

Machine Learning with Python (IBM)
Powered by IBM, Coursera

Deep Learning Specialization
Provided by Dr. Andrew NG, Coursera

Python For Everybody
Provided by Dr.Charles Severance, Coursera

ITMeet 2023
Core Organizer (Logistics Lead)

KUHackfest 2023
Organizer and Mentor

WiDS Kathmandu, Technical Volunteer
Created and maintained the WiDS website

INTERESTS

Programming | Research | Innovation

Entrepreneurship | Books | Movies | Guitar

Literature | Football | Cricket | Video Games

AWARDS

AI Crusade 2023 (Winner)
For creating Aagoo- A portable forest fire detection device.

Duke of Edinburg International Award
Bronze: For dedicating time to social service, physical recreation, and skill development.

National Slam Poetry Competition- Regional Finalist
Awarded for a freestyle slam poem performance: TANDAV

Kathmandu University Society of Music and Culture (KUSMC), College poem recitation competition - Winner
Awarded for the poem: Learning to Grow.

LANGUAGES

English
Proficient

Nepali
First Language

Hindi
Fluent