

Rabin Adhikari

CONTACT

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WORK EXPERIENCE

NepAl Applied Mathematics and Informatics
Institute for research

Apr 2022 — Present

Research Assistant

Conducted research on NLP, Medical Imaging, Semi-supervised Learning, and Multi-modal Learning.

LOCUS

Mar 2021 — May 2022

Software Coordinator

- Managed software events and resolved different technical issues
- Organized about 10 software events

Clamphook

Nov 2019 — Jun 2021

Full Stack Developer

- Implemented the server side of clamphook.com utilizing *MongoDB* and *Flask*
- Used front-end technologies such as *React* for front-end and back-end communication
- Deployed servers using *nginx*, *gunicorn*, and *Cloudflare*, which handles 5,000 users concurrently

IEEE Pulchowk Student Branch

Feb 2020 — Dec 2020

Event Chair

- Conducted a Tech Talk with about 500 participants on *A Platform for Innovations and Ideas* with the CEOs of Yatri Motorcycles and International Green Developers Nepal as speakers
- Organized a blood donation program with the assistance of the Nepal Red Cross Society

ASMI

May 2019 — Mar 2020

Junior Researcher

I researched in two-dimensional *In-Video Advertising*. I researched two-dimensional In-Video Advertising to allow the companies to provide advertisement through videos of the platforming seamlessly without blocking the video content.

EDUCATION

Bachelor in Computer Engineering

Nov 2017 — Present

Central Campus, Institute of Engineering, Tribhuvan University, Nepal

- Secured **Rank 1 In Entrance Exam** in 2074 B.S. (2017 A.D.) among nearly 18,000 candidates
- Graduated in the first division with an aggregate of 79.96%

High School

Jun 2015 — Jun 2017

SOS Hermann Gmeiner School Bharatpur, Bharatpur, Nepal

- Graduated in the **Top 5 of the class**
- Secured a distinction with an aggregate of 85.3%

INTERNSHIPS

Research Intern

Aug 2021 — Apr 2022

NepAl Applied Mathematics and Informatics Institute for research

Worked on tweets classification in 8 inclusive COVID-related categories as my final year project thesis supervised by Bishesh Khanal, Ph.D. as a research intern at NAAMII.

NLP Research Intern

Jun 2020 — Dec 2020

Diyo.ai

- Researched the availability of Nepali language corpora and created one of nearly 3 GB in size
- Used the *Huggingface* transformers library to train an *ALBERT* language model for the Nepali language

PUBLICATIONS

- **Adhikari, Rabin**, Safal Thapaliya, Nirajan Basnet, Samip Poudel, Aman Shakya, and Bishesh Khanal. "COVID-19-related Nepali Tweets Classification in a Low Resource Setting." In *Proceedings of The Seventh Workshop on Social Media Mining for Health Applications, Workshop & Shared Task*, pp. 209-215. 2022.
- Buddhacharya, Sangam Man, **Rabin Adhikari**, Nischal Maharjan, and Sanjeeb Prasad Panday. "Monocular Depth Estimation using a Multi-grid Attention-based Model." *Journal of Innovative Image Processing* 4, no. 3 (2022): 127-146.

LICENSES &
CERTIFICATIONS

- **Generative Adversarial Networks (GANs) Specialization** by deeplearning.ai on Coursera
- **Natural Language Processing Specialization** by deeplearning.ai on Coursera
- **AI for Medicine Specialization** by deeplearning.ai on Coursera
- **TensorFlow Developer Professional Certificate** by deeplearning.ai on Coursera
- **TensorFlow: Data and Deployment Specialization** by deeplearning on Coursera
- **Applied Data Science with Python Specialization** by University of Michigan on Coursera
- **Mathematics for Machine Learning Specialization** by Imperial College London on Coursera
- **Machine Learning** by Stanford University on Coursera

PROJECTS

ReadIt

Implemented and trained the state-of-the-art *Retrospective Reader* on *SQUAD 2.0* which extracts the span of the text from provided context relevant to the given question

COVAPLAD

Programmed a system using Django and MySQL where volunteers apply for various events and Plasma Donors donate their convalescent plasma to save others lives

Kukurshetra

Coded a cross platform desktop app written in C++ which runs on both Linux and Windows where two users on the same LAN shoot bullets at each other from their machines

3D Modelling of ICTC

Simulated the ICTC building in the Pulchowk Campus in C++ using *OpenGL* and *GLSL*

TECHNICAL SKILLS

- *Python* programming language including libraries useful for machine learning and deep learning like *Numpy*, *Pandas*, *Scikit-Learn*, *TensorFlow*, *Pytorch*, etc
- Client side programming using *JavaScript/Typescript* and its frameworks like *React*
- Server side programming using *Node.js* frameworks like *express* and Python frameworks like *Django* and *Flask*
- Experience with various *SQL* and *NoSQL* databases
- Linux skills like *vim*, *tmux*, shell scripting and experience with different Linux distributions
- Version control systems like *Git*
- *Android* programming using *React Native*
- Computer Graphics programming using *OpenGL* along with *SDL* and *SFML*

AFFILIATIONS

- Member, IOE FOSS Community, 2017 to Present
- Member, Mozilla Campus Club, Pulchowk Campus, 2017 to 2019
- LOCUS, Nepal, 2017 to Present

SPOKEN LANGUAGES

- English: Full professional proficiency
- Hindi: Professional working proficiency
- Nepali: Native or bilingual proficiency

REFERENCES

Bishesh Khanal, Ph.D.

Director, NepAl Applied Mathematics and Informatics Institute for research (NAAMII)
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Aman Shakya, Ph.D.

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