



# Rabin Adhikari

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## 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

10+2 in Science Jun 2015 — Jun 2017  
SOS Hermann Gmeiner School Bharatpur, Bharatpur, Chitwan, Nepal  
Graduated in Top 5 of Class with an average of 85.3% for two years

## WORK EXPERIENCE

Nepal Applied Mathematics and Informatics Institute for Research (NAAMII) April 2022 - Present  
Research Assistant  
Research interests are: NLP, Medical Imaging, Semi-supervised Learning, Label Noise

Nepal Applied Mathematics and Informatics Institute for Research (NAAMII) August 2021 — April 2022  
Research Intern  
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.

Third Nepal Winter School in AI December 2021  
Teaching Assistant  

- Assisted in teaching ML fundamentals and GANs to about 300 participants
- Worked together with Dr. Sandesh Ghimire, Dr. Nripesh Parajuli, and Dr. Danda Pani Poudel in the 11-day event

LOCUS 2021 Mar 2021 — May 2022  
Software Coordinator  

- Managed software events and resolving 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*, *unicorn*, 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

Diyo.ai Jun 2020 — Dec 2020  
Research Intern  

- 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

ASMI May 2019 — Mar 2020  
Junior Researcher  
Researched two-dimensional *In-Video Advertising* to enable businesses to distribute advertisements through videos without interfering with the video content

## 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
- **Deep Learning Specialization** by deeplearning.ai on Coursera
- **DeepLearning.AI TensorFlow Developer Specialization** 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
- **Digital Developer Conference: Cloud Native Track** by IBM

## 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

### **Kurukshetra**

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* including libraries useful for machine learning and deep learning like *Numpy*, *Pandas*, *Scikit-Learn*, *TensorFlow*, *Pytorch*
- Front end programming using *JavaScript/Typescript* and its frameworks like *React*
- Server side coding 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

- Advisor, IT Club, Pulchowk Campus, 2020 - Present
- Member, IOE FOSS Community, 2017 to 2020
- Member, Mozilla Campus Club, Pulchowk Campus, 2017 to 2019

## SPOKEN LANGUAGES

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