

Ashim Dahal

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PROFESSIONAL EXPERIENCE

Jul 2022 – present
Lalitpur, Nepal

Research and Development Intern

Robotics Association of Nepal

- Taught the fundamentals of robotics to 900+ students in 3 different schools under project “Ujjwal Education”
- Working on RAN’s internal confidential research, building DOCR CNNs with over 97% accuracy and penning down, in detail, documentation and research of the project
- Worked on RAN’s in-office face attendance system reducing attendance time by 50% of 10+ employees

Jul 2022 – present
Kathmandu, Nepal

Machine Learning Consultant and Core Member

Data Research Council for Students

- Built Nepal’s first landslides and weather mapped dataset with 25k positive and 25k negative examples along with a landslides detection system with 99% accuracy
- Taught 30+ beginners, equipping them with the fundamental concepts of machine and deep learning
- Consulting data science related problems in sister startup of DCRFS “padamna”

Jan 2022 – present
Kathmandu, Nepal

Founder and President

Together We Learn

- Wrote 20+ newsletters to provide learning resources to more than 200 students, helping them to learn python, machine learning, arduino and programming in general
- Worked closely with board members, managing over 10 events like school outreach programs, hour of code, research paper reviews and webinars impacting over 600 students
- Handled the social media platform and discord server, updated every newsletters into posts and archives to keep record for future aspirants
- Involved in group projects, building chatbots with over 500+ unique users and penning down research paper on human computer interaction

EDUCATION

Aug 2019 – Dec 2021
Kathmandu, Nepal

High School

Capital College and Research Center
(GPA(11+12) : 4.0+3.5)

CLUBS

Sep 2019 – May 2021
Kathmandu, Nepal

The English Society

IT Head and General Member

- Involved in the club activities, executing college-wide programs, producing podcast episodes, making impression on over 1000 students
- Facilitated as the point of contact for 26 members and 50+ candidates, making communication efficient and faster

PROJECTS

Frida

Created Nepal's first landslides dataset mapped with weather data by NASA by using pandas, went on to build models on PyTorch to accurately predict them.

Jelly

Used unicode translation, flask, python and google cloud services to transform facebook’s blender bot to make Nepal's first Romanized Nepali chatbot.


Chicken Recipe Generator


Created and analyzed three text generation models to make chicken recipes using tensorflow.


Other Projects

Used technologies like TensorFlow, PyGame, openCV, PyTorch, PHP to make Image Classifiers, AR Sudoku Solver GANS, Flappy Bird game, School Management System, portfolio webpage, document scanner, hotel moontowerinn's website, etc.

RESEARCH PAPERS

Ashim Dahal, Sushan Kattel. Predicting Handwritten Devanagari Characters using modified-Lenet Model Architecture, 11 October 2022, PREPRINT (Version 1) available at Research Square [<https://doi.org/10.21203/rs.3.rs-2137648/v1>] 

Ashim Dahal. Do you "Go big or go home" with Neural Networks?, 3 June 2022. PREPRINT (Version 1) available at Research Square [<https://doi.org/10.21203/rs.3.rs-1716492/v2>] 

Ashim Dahal. Would you own a ROBOT? : A detailed research on public response to the nooks and crannies of owning a robot., 31 May 2022, Under review at International Journal of Social Robotics, PREPRINT (Version 4) available at Research Square [<https://doi.org/10.21203/rs.3.rs-1622143/v4>] 

CERTIFICATES

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|--|---|--|
| • Generative Adversarial Netowrks (GANs) Specialization by DeepLearning.AI | • Deep Learning and Reinforcement Learning by IBM | • Sequence Models by DeepLearning.AI |
| • Neural Networks and Deep Learning by DeepLearning.AI | • Machine Learning by Stanford Online | • Introduction to Data Science in Python by University of Michigan |

SKILLS

Python | Machine Learning | Deep Learning | PyTorch | Matplotlib | Tensorflow | openCV | Flask
Numpy | Git | Enthusiasm | Verbal and Written Communication | Empathy | Teamwork