

# Ashim Dahal

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🔄 ashimdahal in in/ashimdahal

## 📁 PROFESSIONAL EXPERIENCE

Jul 2022 – Nov 2022  
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”
- Worked on RAN’s internal research, building DOCR CNNs with over 97% accuracy, Image classifiers, and object detection models while penning down the documentation and research of the projects
- Worked on RAN’s in-office apple sorting conveyor belt increasing efficiency by 20% as compared to human labor

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

## 📁 PROJECTS

### Jelly 🌐

Used unicode translation, flask, python and hugging face to transform facebook’s blender bot to make **Nepal's first and the only** Romanized Nepali chatbot in its existence.

### torchy 🌐

Created a PyTorch wrapper in pure python and pytorch that adds .fit() to nn.Module, utility functions, new attributes to trained model and much more.

### 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 new landslides probabilities.

### Jov.ai 🌐

An AI powered image editing application that converts b/w images to colored images highlighting the details of Jupiter's surface and generates new b/w images like the ones Junocam captures.

## 🎓 EDUCATION

Aug 2019 – Dec 2021  
Kathmandu, Nepal

### High School

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

## CLUBS

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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

## RESEARCH PAPERS

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Ashim Dahal, Anuj Khadka, Bishal Kharal et al. Effectiveness of Native Language for Conversational Bots, 24 October 2022, PREPRINT (Version 2) available at Research Square [↗](#)

Ashim Dahal, Sushan Kattel. Predicting Handwritten Devanagari Characters using modified-Lenet Model Architecture, 11 October 2022, PREPRINT (Version 1) available at Research Square. [↗](#)

Ashim Dahal. Do you “Go big or go home” with Neural Networks?, 3 June 2022. PREPRINT (Version 2) available at Research Square. [↗](#)

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. [↗](#)

## CERTIFICATES

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|--|---|--|
| • Generative Adversarial Netowrks (GANs) Specialization by DeepLearning.AI <a href="#">↗</a> | • Deep Learning and Reinforcement Learning by IBM <a href="#">↗</a> | • Sequence Models by DeepLearning.AI <a href="#">↗</a>                               |
| • Neural Networks and Deep Learning by DeepLearning.AI <a href="#">↗</a>                     | • Machine Learning by Stanford Online <a href="#">↗</a>             | • Introduction to Data Science in Python by University of Michigan <a href="#">↗</a> |

## SKILLS

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Python | Machine Learning | Deep Learning | PyTorch | Matplotlib | Tensorflow | openCV | Numpy  
Git | Strong: Enthusiasm | Written & Verbal Communication | Empathy | Teamwork | Leadership