

# Ashim Dahal

Lokanthali, Bhaktapur, Nepal

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## PROFESSIONAL EXPERIENCE

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### Robotics Association of Nepal

Research and Development Intern

**Ekantakuna, Nepal**

*July 2022-Present*

- Taught the fundamentals of robotics to 900+ students in 3 different schools under project Ujjwal Education.
- Working on RAN's internal confidential research, building CNNs with over 97% accuracy.

### Data Research Council for Students(DRCFS)

Machine Learning Consultant and Core Member

**Kathmandu, Nepal**

*July 2022-Present*

- 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 the fundamental concepts of machine and deep learning
- Consulting data science related problems in sister startup of DCRFS "padamna"

### Together We Learn Community,

Founder and President

**Bhaktapur, Nepal**

*Jan 2022-Present*

- Wrote 20+ newsletters to provide learning resources to more than 150 students, helping them to learn programming
- 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

### The English Society

Executive member & IT head

**Kathmandu, Nepal**

*Sept 2019-March 2021*

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

## EDUCATION

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### Capital College and Research Center

High school with science major

(GPA(11+12) : 4.0+3.5)

**Koteshwor, Kathmandu**

*Dec 2021*

### Coursera Credentials

Generative Adversarial Networks (GANs) Specialization, 3 courses, by DeepLearning.AI

*December 15, 2021*

Deep Learning and Reinforcement Learning by IBM

*July 16, 2021*

Sequence Models by DeepLearning.AI

*July 09, 2021*

Neural Networks and Deep Learning by DeepLearning.AI

*August 11, 2020*

Machine Learning by Stanford Online

*August 04, 2020*

Introduction to Data Science in Python by University of Michigan

*May 26, 2020*

## RESEARCH PAPERS

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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/v1>]

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>]

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## PROJECTS

### **Jelly the chatbot**

Used unicode translation, flask, python and google cloud services to transform facebook’s blender bot to reply to romanized Nepali.

### **Chicken Recipe Generator**

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

### **AR Sudoku Solver**

Used python programming with openCV and keras to make Augmented Reality Sudoku solver.

### **Other Projects**

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

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## SKILLS

### **Technical Skills**

Python | Machine Learning | Deep Learning | PyTorch | Matplotlib | Tensorflow | openCV | Flask | Numpy | Git | PHP | JavaScript

### **Soft Skills**

Strong: Enthusiasm | Verbal and Written Communication | Empathy | Teamwork |