Ashim Dahal

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PROFESSIONAL EXPERIENCE

Robotics Association of Nepal   **Ekantakuna, Nepal**
Research and Development Intern   *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)   *Kathmandu, Nepal*
Machine Learning Consultant and Core Member   *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,   **Bhaktapur, Nepal**
Founder and President   *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   **Kathmandu, Nepal**
Executive member & IT head   *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

Capital College and Research Center   **Koteshwor, Kathmandu**
High school with science major   *Dec 2021*
(GPA(11+12) : 4.0+3.5)

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 DeeepLearning.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

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]

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.

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 |