

ABHISHEK PAUDEL

Pursuing PhD in Computer Science with research interests in machine learning and computer vision



Education

- Aug 2019 - May 2024 • **PhD in Computer Science**
George Mason University 📍 Fairfax, Virginia, USA
- Nov 2013 - Sept 2017 • **Bachelor's Degree in Computer Engineering**
Tribhuvan University, Institute of Engineering, Pulchowk Campus 📍 Lalitpur, Nepal



Experience

- Aug 2019 - present • **George Mason University**
Graduate Teaching Assistant 📍 Fairfax, Virginia, USA
Affiliated with Computer Science Department in Volgenau School of Engineering. Teaching lab sessions, and evaluating assignments and projects for introductory computer programming course in Python.
- Jan 2015 - Aug 2019 • **United Nations Children's Fund (UNICEF) Nepal**
Technical Consultant 📍 Kathmandu, Nepal
 - Developed and deployed various SMS based applications along with real-time/off-line analytics for tasks like communication with teachers in remote districts, location tracking of UNICEF field staffs for security purposes and information dissemination & monitoring of UNICEF supported cash transfer program. These applications proved to be highly valuable and useful during the post-earthquake period and benefited more than half a million people in earthquake affected districts of Nepal directly or indirectly. (Jan 2015 - Nov 2015, UNICEF Nepal)
 - Provided technical support in development and deployment U-report platform as a part of Shout Out For Health program initiated by Bill & Melinda Gates Foundation. U-report is a free, SMS-based system that allows young people to speak out on what is happening in communities across their country using their mobile phones. These voices and opinions of young people is visualized in real-time on public website. (Jan 2017 - Nov 2017, Equal Access Nepal)
 - Led the development and piloting of the first of its kind SMS based information dissemination and monitoring system for Government of Nepal to enhance its existing management information system used for social security allowance program. This new SMS based system would automatically acquire information about social security allowance from concerned authorities in each local level, send this information to registered beneficiaries and also make it available on public website. (Feb 2018 - Oct 2018, Nepal Participatory Action Network)
 - Drafted technological and programmatic strategy for youth engagement in policy process using mobile phone technologies. (July 2019 - August 2019, UNICEF Nepal)
- Jan 2019 - Jun 2019 • **MPercept Academy**
Course Instructor 📍 Lalitpur, Nepal
Taught introductory course on artificial intelligence and machine learning along with designing and evaluating assignments and projects.



Publications

- **A. Paudel, B. R. Bajracharya, M. Ghimire, N. Bhattarai and D. S. Baral, "Using Personality Traits Information from Social Media for Music Recommendation," 2018 IEEE 3rd International Conference on Computing, Communication and Security (ICCCS), 2018, pp. 116-121. DOI: 10.1109/CCCS.2018.8586831**



Projects

- 2019 • **Pen Path Approximation on MNIST Digits**
Extracting a sequence of coordinate points along the path of digits from images of handwritten digits
- 2019 • **Cuisine Classification**
Identifying cuisine based on recipe ingredients
- 2018 • **2048 AI**
An AI that solves 2048 puzzle game using minimax and alpha-beta pruning
- 2017 • **Musick**
A recommendation system that recommends music based on personality of a person determined from social media
- 2017 • **SlideCast**
A tool that allows live broadcasting of presentations to computers and smart phones in a network
- 2016 • **Chatbot**
Minor project on Python that generates responses to questions based on Markov model and pattern matching



Additional Experience

- 2018 • **AI Fellow, Fusemachines** 📍 Kathmandu, Nepal
- 2018 • **Facilitator, AI for Social Good Workshop, Kathmandu Mini Maker Faire** 📍 Kathmandu, Nepal
- 2017 • **Software Coordinator, LOCUS National Technological Festival** 📍 Lalitpur, Nepal
- 2017 • **Event Coordinator, Hult Prize @ Tribhuvan University** 📍 Lalitpur, Nepal
- 2016 • **Participant, Asia-Pacific HLM3 Youth Innovation Challenge Workshop** 📍 Kuala Lumpur, Malaysia
- 2015 • **Speaker, Global Innovations for Children and Youth Summit** 📍 Helsinki, Finland
- 2015 • **Volunteer, Me to We Youth Volunteer Trip** 📍 Maasai Mara, Kenya

Contact

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- in [linkedin.com/in/abpaudel](https://www.linkedin.com/in/abpaudel)
- ✉ abpaudel@outlook.com

Skills

Languages

Nepali, English, Hindi

Programming Languages

Proficient in Python, C++, C
Familiar with JavaScript, PHP, MATLAB, Assembly

Libraries & Frameworks

PyTorch, TensorFlow, Keras, scikit-learn, NumPy, pandas, matplotlib

Web & Databases

HTML, CSS, Django, Nginx, MySQL, MongoDB

Tools & Utilities

Git, LaTeX, Robot Operating System, Microsoft Azure

Certifications

Deep Learning Specialization

(deeplearning.ai, Coursera)

- *Neural Networks and Deep Learning*
- *Improving Deep Neural Networks*
- *Structuring Machine Learning Projects*
- *Convolutional Neural Networks*
- *Sequence Models*

Artificial Intelligence MicroMasters®

(Columbia University, edX)

- *Artificial Intelligence*
- *Machine Learning*
- *Robotics*
- *Animation and CGI Motion*

Awards & Achievements

Fusemachines Artificial Intelligence

Fellowship

First Nepal AI Winter School Scholarship

Coursera Deep Learning Financial Aid

Winner, LOCUS Hack-A-Week

Microsoft YouthSpark Challenge for

Change Award

Microsoft Student Partner

2nd Runner Up, ChildApp Appathon