ABHISHEK PAUDEL

Pursuing PhD in Computer Science with research interests in machine learning

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

Professional Experience

Aug 2019 – present
George Mason University
Graduate Teaching Assistant
Fairfax, Virginia, USA
Affiliated with Computer Science Department in Volgenau School of Engineering.

Jul 2019 – Aug 2019
United Nations Children's Fund (UNICEF) Nepal Country Office
Technical Consultant
Kathmandu, Nepal
Drafted technological and programmatic strategy for youth engagement in policy process using mobile phone technologies.

Feb 2018 – Oct 2018
Nepal Participatory Action Network
Technical Consultant
Kathmandu, Nepal
Lead 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 system used for social security allowance program.

Jan 2017 – Nov 2017
Equal Access Nepal
Technical Consultant
Lalitpur, Nepal
Provided technical support to UNICEF Nepal in development and deployment U-report platform which 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.

Jan 2015 – Nov 2015
United Nations Children's Fund (UNICEF) Nepal Country Office
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 and monitoring of UNICEF supported cash transfer program.

Teaching Experience

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

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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Skills

Languages
Nepali, English, Hindi

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

Libraries & Frameworks
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*

Columbia University AI Courses, edX
· *CSMM.101x: Artificial Intelligence (AI)*
· *CSMM.102x: Machine Learning*
· *CSMM.103x: Robotics*

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
Winner, SongsNepal Acoustic Festival