

ABHISHEK PAUDEL

Computer engineering graduate with research interests and skills in AI, machine learning and data science

Education

Nov 2013
Sept 2017 ● **Bachelor's Degree in Computer Engineering**
Tribhuvan University, Institute of Engineering, Pulchowk Campus Lalitpur, Nepal

Professional Experience

Feb 2018
present ● **Nepal Participatory Action Network**
Technical Lead Kathmandu, Nepal

Leading 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. Furthermore, it would also interactively survey the beneficiaries through SMS to inquire about effectiveness of the program.

Jan 2017
Nov 2017 ● **Equal Access Nepal**
Technical Consultant Lalitpur, Nepal

Provided technical support to UNICEF Nepal CO 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, and work together with other community leaders and policy makers for positive change. These voices and opinions of young people are visualized in real-time on public website.

Jan 2015
Nov 2015 ● **United Nations Children's Fund (UNICEF) Nepal Country Office**
Technical Consultant Lalitpur, 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.

Teaching Experience

Dec 2018
present ● **MPercept Academy**
Course Instructor Lalitpur, Nepal

Teaching 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
- 2016 ● **Secure Emigration**
A web-based platform developed on Django that allows rating and reviewing of manpower companies

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 ● **Delegate, Slush 2015** Helsinki, Finland
- 2015 ● **Speaker, Global Innovations for Children and Youth Summit** Helsinki, Finland
- 2015 ● **Volunteer, Me to We Youth Volunteer Trip** Maasai Mara, Kenya
- 2015 ● **Mentor, Assistive Appathon by UNICEF, Google and MIC Nepal** Dhulikhel, Nepal
- 2015 ● **Mentor, Wearables Appathon by UNICEF and MIC Nepal** Dhulikhel, Nepal

Contact

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☎ +977-9841061471

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*

Artificial Intelligence MicroMasters® (Columbia University, edX)

· *Artificial Intelligence*
· *Machine Learning*
· *Robotics*
· *Animation and CGI (ongoing)*

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