

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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- ✉ abpaudel@outlook.com

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