

# Rabindra Lamsal

Research Scholar

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<b>EDUCATION</b>	<b><i>Master of Technology</i></b> , Computer Science & Technology (2017 - expected 2019) Jawaharlal Nehru University (JNU), New Delhi, India CGPA: 8.60/9.0, viz., 91% out of possible 95%
	<b><i>Bachelor of Engineering</i></b> , Computer Engineering (2012 - 2016) Kathmandu University (KU), Dhulikhel, Nepal CGPA: 3.08/4.0
	<b><i>12<sup>th</sup></i></b> , Science, Higher Secondary Education Board (2009 - 2011) United Academy (UA), Kathmandu, Nepal Percentage: 81.40%
<b>WORK EXPERIENCE</b>	<b><i>Research Assistant</i></b> (2018 - 2019) Special Centre for Disaster Research, JNU, New Delhi
	<b><i>Junior System Administrator</i></b> (2016 - 2017) Annapurna Post, Kathmandu, Nepal
	<b><i>Founder Coordinator (Community head)</i></b> (2015 - 2016) Kathmandu University WordPress Club, Dhulikhel, Nepal
	<b><i>System Administrator</i></b> (2014 - 2015) Kathmandu University Boys Hostel, Dhulikhel, Nepal
	<b><i>Senior Volunteer</i></b> (2013 - 2016) Help Nepal Network (HeNN), Kathmandu, Nepal
	<b><i>Trainer</i></b> (2013) Community Education Project (CEP), Kathmandu University, Nepal
<b>RESEARCH</b>	
<b>(a) Interests</b>	Natural Language Processing, Machine Learning, Deep Learning, Social Media Analytics, Disaster Management
<b>(b) Dissertation</b>	Disaster Response using Artificial Intelligence (ongoing)
<b>(c) Skills &amp; Preferences</b>	(a) Predictive Modeling, Machine Learning algorithms (b) Tools & Libraries: scikit-learn, NLTK, NumPy, Pandas, TensorFlow, Keras (c) Language: Python, (d) OS: Linux, (e) Typesetting system: LaTeX
<b>(d) Papers Presented</b>	Lamsal, R., Kumar, T. V., Artificial Intelligence based Disaster Response System. World Congress on Disaster Management, Indian Institute of Technology (IIT) Bombay, Mumbai, India, Jan 29-Feb 1, 2019.

Lamsal, R., Kumar, T. V., Artificial Intelligence based Early Warning System for Coastal Disasters, International Workshop on Reinforcing Coastal Zone Disaster Management, Special Centre for Disaster Research, JNU, New Delhi, India, Nov 15-17, 2018.

**(e) Preprints** Lamsal, R., Katiyar, S. (2018). Real-time Clustering Algorithm Based on Predefined Level-of-Similarity. arXiv preprint arXiv:1810.01878.

Lamsal, R., Choudhary, A. (2018). Predicting Outcome of Indian Premier League (IPL) Matches Using Machine Learning. arXiv preprint arXiv:1809.09813.

**(f) Posters Presented** Lamsal, R., Kumar, T. V., Social Media Analytics for Disaster Response using Artificial Intelligence. National Science Day, JNU, New Delhi, India, Feb 28, 2019.

## **ACADEMIC PROJECTS**

**(a) Indian Premier League Matches Prediction Model**

A machine learning project, that predicts outcome of IPL matches.

**(b) Fabrication of Microstrip Patch Antenna**

A Patch Antenna was designed in MATLAB, simulated in Computer Simulation Tool (CST) and finally fabricated.

**(c) Inventory Management System**

A complete Inventory Management System, written using PHP and MySQL.

**(d) Car Racing Game**

A C language based 2D car racing game, which was selected for showcasing at CAN Softech 2013, organized by Computer Association of Nepal.

**(e) Noise Buzzer**

An embedded system project, that detects noise, and automatically triggers sound alarm when the noise is above a certain threshold value.

## **ONLINE COURSES**

**(a) Machine Learning** offered by Stanford at Coursera.

**(b) Deep Learning Specialization** offered by deeplearning.ai at coursera.

(i) Neural Networks and Deep Learning (ii) Improving Deep Neural Networks

## **VOLUNTARY WORKS**

**(a)** Organized a Global Symposium (2019) on Artificial Intelligence in Governance & Disaster Management at Special Centre for Disaster Research.

**(b)** Organized IT MEET (2016), Kathmandu University.

**(c)** Contributed as System Developer at Sports Week (2016), Kathmandu University.

**(d)** Organized numerous WordPress Workshops (2015 - 2016).

**(e)** Volunteered in IT MEET (2014), Kathmandu University.

**(f)** Executive Member (2013 - 2015) of Kathmandu University Computer Club.

**(g)** Participated in Google Translate Community (2014).

**(h)** Volunteered in National Workshop (2014) on the 'Primer Series on ICTD for Youth': Project Management and ICTD.

**(i)** Organized IT MEET (2013), Kathmandu University.

**REFERENCES** Available on request.