Kalanki, Kathmandu, Box 44600, Bagmati Zone, Nepal
Nationality: Nepalese, m/y of Birth: August 1993

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Rabindra Lamsal

Education

M.Tech, Computer Science and Technology, Jawaharlal Nehru University, New Delhi, 2017–2019.

CGPA: 8.70/9.0, Equivalent percentage: 92%

Thesis Title: Disaster Response using Artificial Intelligence

Thesis work graded 9.0/9.0 by both external and internal examiners

BE, Computer Engineering, Kathmandu University, Dhulikhel, 2012–2016.

Overall CGPA: 3.08/4.0, Junior-Senior year CGPA: 3.29/4.0

12th, Science stream, HSEB, United Academy, Lalitpur, 2009–2011.

Percentage: 81.04%

Appointments

Project Associate, Special Centre for Disaster Research, Jawaharlal Nehru University, New Delhi, 2018–2019.

Developed AI-based Disaster Response Systems. Presented research works.

Junior System Administrator, Annapurna Post, Corporate Tower, Kathmandu, 2016–2017.

Worked on DHCP server, Firewall, NAT, DNS server, Web server.

Founder Coordinator, Kathmandu University WordPress Club, Dhulikhel, 2015–2016.
System Administrator, Kathmandu University Boys Hostel, Dhulikhel, 2014–2015.

Deployed a LINUX based networking environment. Managed bandwidth.

Senior Volunteer, Help Nepal Network (HeNN), Kathmandu, 2013–2016.

Installed and monitored electronic libraries (Linux Terminal Server Project) at various remotely established governmental educational institutions.

Trainer, Community Education Project (CEP), Kathmandu University, Dhulikhel, 2013.

Research Interests

Machine Learning, Natural Language Processing, Social Computing

Abilities

Libraries: Scikit-learn, NLTK, NumPy, Pandas, TensorFlow, Plotly/Dash; **Language**: Python, JAVA, C; **Misc**: Linux SysAdmin; LaTeX; Twitter APIs; SQLite

Publications

Book Chapters

Rabindra Lamsal and T.V. Vijay Kumar. 2020. Artificial Intelligence and Early Warning Systems. Will appear on the book titled AI and Robotics in Disaster Studies (Palgrave Macmillan).

Rabindra Lamsal and T.V. Vijay Kumar. 2019. Artificial Intelligence based Disaster Response Systems. *Fourth World Congress on Disaster Management.* January 29-February 1, 2019, Indian Institute of Technology Bombay, India. [abstract]

Rabindra Lamsal and T.V. Vijay Kumar. 2020. Artificial Intelligence Based Early Warning System for Coastal Disasters. Will appear on the book titled Development in Coastal Zones and Disaster Management (Palgrave Macmillan).

Journal articles

Rabindra Lamsal. 2020. Tracking COVID-19 Discourse: Design of a Large-Scale Coronavirus Tweets Dataset. [under review]

Rabindra Lamsal and T.V. Vijay Kumar. 2020. Twitter based Disaster Response using Recurrent Nets. International Journal of Sociotechnology and Knowledge Development (IJSKD), 13(4). [accepted]

Rabindra Lamsal and T.V. Vijay Kumar. 2020. Twitter based Disaster Response using traditional Machine Learning Algorithms. [under review]

Preprints

Rabindra Lamsal and Shubham Katiyar. 2018. Determining Optimal Number of k-Clusters based on Predefined Level-of-Similarity. [arXiv]

Rabindra Lamsal and Ayesha Choudhary. 2018. Predicting Outcome of Indian Premier League (IPL) Matches Using Machine Learning. [arXiv]

Poster Presentation(s)

Rabindra Lamsal and T.V. Vijay Kumar. 2019. Social Media Analytics for Disaster Response using Artificial Intelligence. National Science Day, New Delhi, India.

Grants & allowances

Honorariums and allowances (2018-2019), Special Centre for Disaster Research, Jawaharlal Nehru University, New Delhi, India.

Travel and Accommodation grant (2019). Fourth World Congress on Disaster Management, Indian Institute of Technology (IIT) Bombay, Mumbai, India.

Travel grant and allowances (2013-2016). Linux Terminal Server Project (LTSP). Help Nepal Network, Kathmandu Nepal.

Academic projects

Live Twitter Sentiment [web app]

A near-real-time sentiment analysis project. Two datasets, which were the products of this project, have been selected as the first-place winner in the Spring 2020 IEEE DataPort Dataset Competition.

(i) Twitter Based Disaster Response System

(ii) Disaster Response System targeted for Coastal disasters
> Projects completed as a part of M.Tech thesis.

Word Vectors for 0.5 million Nepali words/phrases [IEEE DataPort]
> Word2Vec implementation of a Nepali language corpora having 90 million running words.

Indian Premier League (IPL) Matches Prediction Model
> A machine learning model capable of predicting the outcome of an IPL games.

Fabrication of Microstrip Patch Antenna [GitHub]
> A Microstrip Patch Antenna designed in MATLAB, simulated in Computer Simulation Tool (CST) and fabricated in Lab. Project carried out as a part of the course *Wireless Sensor Networks.*

Inventory Management System [GitHub]
> A complete Inventory Management System, written in PHP and MySQL. Project carried out as a part of the course *Database Management Systems.*

Noise Buzzer
> An embedded system capable of detecting noise, and triggering sound alarm.

Duckworth-Lewis Calculator
> An android application to calculate revised cricket scores after a game is interrupted due to rain.

Car Racing Game
> A C language based 2D car racing game, selected for showcasing at CAN Softech 2013.

sports (recent)	First (Table Tennis Doubles) and Runner-up (Table Tennis Singles). Chandrabhaga Hostel Sports Week 2019, Jawaharlal Nehru University, New Delhi
Voluntary works	Organized EngQuest (2019), Jawaharlal Nehru University.
	Organized IT MEET (2016, 2013), Kathmandu University.
	Contributed as System Developer at Sports Week (2016), Kathmandu University.
	Organized various WordPress Workshops (2015 - 2016).
	Volunteered in IT MEET (2014), Kathmandu University.
	Executive Member (2013 - 2015) of Kathmandu University Computer Club.
	Participated in Google Translate Community (2014).
	Volunteered in National Workshop (2014) on the 'Primer Series on ICTD for Youth': Project Management and ICTD.
Effort in Public awareness	Wrote for a tech news column in Nepal's National Daily (2016-2017) The topics included, but were not limited to, LINUX (51760), Navigation (57851), Android (54788, 54367, 57445), Web & Internet (59921, 55189, 56100, 55673).
Referees	Available upon request.