Tej Bahadur Shahi, MSc.

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Professional Profile

- RHD Student working on "Artificial Intelligence for Agriculture- (AI4AG)" project with aiming to improve agriculture system using artificial intelligence and machine learning technology.

- Years of experience in teaching and research at undergraduate and graduate studies in computer science and information technology

- Extensive research experience in machine learning for decision making process in different field such as agriculture, climate change and stock market predictions.

Qualifications

2020-2022 (Expected)	**Master of Research in Information Technology (MS by Research)** CQUniversity, Queensland, Australia
2009-2012	**Master of Science in Computer Science and IT (M.Sc.CSIT)** Tribhuvan University, Central Department of Computer Science and IT (CDCSIT), Kirtipur, Kathmandu, Nepal. (With High Distinction: 91.2%)
2002-2005	**Bachelor of Science in Computer Science (BSc.CS)** Tribhuvan University, Siddhnath Science Campus, Mahendranagar, Kanchanpur, Nepal. (With high distinction: 81.5%)

Work Experiences

July, 2017 -Present **(On study leave)**	**Lecturer, CDCSIT, Tribhuvan University, Nepal.** - The primary role is to prepare teaching materials and take lectures for master's degree students. Also supervise students toward their master's thesis and perform research activities in the department.

March, 2012 – May, 2016	**Part-Time Lecturer, Kathford International College of Engineering and Management, Kathmandu Nepal.** - To deliver lectures for undergraduate courses: Artificial Intelligence, Data Mining and Object oriented Programing.
March, 2012- October, 2012	**Teaching Assistant (Casual), CDCSIT, Tribhuvan University, Kathmandu, Nepal.** - To conduct the lab session and mark the student assignments.
Jan, 2013-Jan, 2014	**Research-Associate** for Research Project "*Automated Handwritten Document Recognition*" Funded by University Grant Commission, Nepal.
August, 2013-July, 2017	**Computer Officer,** Ministry of Peace and Reconstruction, Government of Nepal - Taking care of all Computer hardware maintenance and software development, maintenance, monitoring and supervision activities.

Awards and Achievements

2019, July	**Scholarship Package (Travel Grant, Registration and Accommodation)** for attending Eastern European Summer School-EEML 2019 in Romania.
2019, March	**Travel Grant** for attending International Spring School on Advanced Language Engineering-ISSALE-2019 in Sri Lanka by DAAD Germany.
2015, July	**Nepal Bidhya Bhusan 'Kha' Medal (Gold Medal)** (On National Education day, awarded for obtaining highest grades in master's degree Program throughout the University).
2013, July	**Nepal Bidhya Bhusan 'Ga' Medal (Gold Medal)"** (On National Education day, awarded for obtaining highest grades among the all bachelor programs in Institute of Science and Technology, Tribhuvan University).
2009-2012	**Departmental Studentship** (Full Scholarship in Tuition Fee for master's degree study)
2002-2005	**Undergraduate Studentship** (Tuition Fee Waiver Scholarship for Undergraduate Study)

Conference/ Posters/Workshop/

October, 2018
: <u>Tej Bahadur Shahi</u> and Subarna Shakya, "**Nepali SMS filtering Using Decision Trees, Neural Network and Support Vector Machine"** in IEEE International Conference on Advances in Computing, Communication Control and Networking (ICACCCN2018), 12-13 October, 2018, Delhi, India.

February, 2018
: Top Bahadur Pun and <u>Tej Bahadur Shahi</u> "**Nepal Stock Exchange Prediction Using Support Vector Regression and Neural Network**" in IEEE International Conference on Electronics, Computers and Communications (ICAECC-2018), Feb. 9-10 , 2018, Bangalore, India.

February, 2018
: <u>Tej Bahadur Shahi,</u> Ashok Kumar Pant "**Nepali News Classification using Naïve Bayes, Support Vector Machines and Neural Networks"** in IEEE International Conference on Communication, Information & Computing Technology (ICCICT-2018) , Feb. 2-3, 2018, Mumbai, India.

January, 2018
: Tej Bahadur Shahi, Ananda KC " Predicting Sentence using N-gram Language Model for Nepali Language" in 3rd international conference on recent trend in computer science and electronics (RTCSE-2018), 2-3, Jan, 2018, Bangkok, Thailand.

Presentations/ Talk

- Presented an Invited Talk on "**Advanced Techniques on NLP and Machine Learning** " at Two day Workshop *On Natural Language Processing with Python*, 24-25 June, 2018 Dudhpokhari, Bhaktpur.
- Presented a talk on "**Supervised Machine Learning techniques"** at *National Workshop on Machine Learning and Data Science* (www.mldsn.org), 9-11 May 2018, Kathmandu Nepal.
- Presented a Working Paper on "**BSc CSIT Course: Overview, Challenge and Opportunity** *"at Industry-Academia Dialogue*, Organized by Bhaktpur Multiple Campus in association with University Grant Commission, Kathmandu Nepal.

Master's Thesis Supervision

- Raj Singh Jora (CDCSIT, 2020), A Comparative Analysis of Machine Learning Algorithm for Human Activity Recognition.
- Ashish Shrestha (CDCSIT, 2019), Stock Market Forecasting with LSTM and Sentiment Analysis

- Aman Maharjan (CDCSIT, 2018), *Nepali Document Clustering using K-Means, Mini Batch K-Means, and DBSCAN.*
- Amit Maharjan (CDCSIT, 2018), *Stock Portfolio Management System* (Master's Project Work)

External Examination Services (Master's Thesis Evaluation)

- "Prediction of student retention and dropout in higher education using classification techniques of machine learning", *Department of Computer Science and Engineering, Kathmandu University, 2018*
- "Identifying outliers in educational data", *Department of Computer Science and Engineering, Kathmandu University, 2018*
- "A Comparative Study of Statistical Machine Translation and Neural Machine Translation Paradigms for the under-resourced language pair (English-Nepali)" *Department of Computer Science and Engineering, Kathmandu University, 2019*
- "Predicting the topic of Nepali Documents via topic modeling using Latent Dirichlet Allocation" *Department of Computer Science and Engineering, Kathmandu University, 2019.*

References

Prof. William Guo

Principal Supervisor

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Prof. Nawaraj Paudel,

Head of Department

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