

# Niraj Pahari

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## EDUCATION

<b>Kyushu Institute of Technology</b> <i>Ph.D. candidate in Natural Language Processing</i>	Fukuoka, Japan Oct. 2021 – Present (Expected Graduation: Sept. 2024)
<b>King Mongkut's Institute of Technology Ladkrabang</b> <i>M.E. in Robotics and Computational Intelligence Systems</i>	Bangkok, Thailand Aug. 2019 – July 2021
<b>Tribhuvan University</b> <i>B.E. in Computer Engineering</i>	Kathmandu, Nepal Dec. 2010 – July 2014

## EXPERIENCE

<b>Shimada Laboratory, Kyushu Institute of Technology, Japan</b> <i>Phd Researcher</i>	Oct 2021 – Present
<ul style="list-style-type: none"><li>Studied of multiple encoder systems in multi-task and single-task settings for sentiment analysis in monolingual and code-mixed sentences respectively.</li><li>Utilized of data augmentation and semi-supervised learning for handling data scarcity in code-mixed scenarios.</li><li>Performed statistical tests (chi-squared and z-test) for testing the hypothesis for socio-linguistics behaviour of multilingual speakers in social media in context of Nepal.</li><li>Published and presented multiple research papers in international journal and conferences.</li><li><b>Technology/Tools used:</b> PyTorch, Transformers, Scikit-learn, TextAttack, Numpy, Pnadas, Matplotlib, FlairNLP, NLTK, TextAttack, WandB, Doccano</li></ul>	
<b>Robotics and AI Laboratory, KMITL, Thailand</b> <i>Master's Researcher and Software Developer</i>	Aug. 2019 – July 2021
<ul style="list-style-type: none"><li>Studied paraphrase identification using the features from word and sentence level embeddings.</li><li>Developed full stack web application for vaccine management system for <i>Department of Disease Control, Thailand</i> with Django serving a REST API with React as the frontend</li><li>Developed Industrial Robot module for the KRAI platform using <i>ROS MoveIT!</i> for interfacing <i>ABB IRB 1100</i> industrial robot with web interface.</li><li><b>Technology/Tools used:</b> Scikit-learn, NLTK, TextHero, Django-Rest Framework, React, ROS, Roslibjs</li></ul>	
<b>Genese Solution Pvt. Ltd., Nepal</b> <i>Software (Backend) Developer</i>	Jan 2015 – July 2019
<ul style="list-style-type: none"><li>Wrote automation scripts for websites using <i>Request, BeautifulSoup, and Selenium</i>.</li><li>Developed REST APIs for multiple web applications using <i>Django REST framework</i></li><li>Held the responsibility of working with various international clients remotely, and eliciting the requirements from the clients and implementing the solution.</li><li>Certified with <b>AWS Certified Developer - Associate</b> (JXZ5MSMC2E1EQBC0).</li><li><b>Technology/Tools used:</b> Django-REST framework, Agile development, JIRA, Git, Celery, Requests, BeautifulSoup, Selenium, AWS, SQL</li></ul>	

## ADDITIONAL EXPERIENCE

<b>Robotics and AI Laboratory, KMITL, Thailand</b> <i>Laboratory Instructor</i>	Aug. 2019 – July 2021
<ul style="list-style-type: none"><li>Instructed laboratory courses for Industrial Robotics (ABB Robots), Mobile Robotics (ROS with Turtlebot), Python with Image Classification and Programming in C.</li><li>Prepared laboratory course materials including the supervision of student projects for each course.</li><li>Supervised exchange students from Indian university for 1 month exchange with KMITL.</li></ul>	
<b>Soch College of IT, Nepal</b> <i>Part-Time Lecturer</i>	July 2016 – July 2019
<ul style="list-style-type: none"><li>Lectured undergraduate level courses: DBMS, Advanced-DBMS, and Artificial Intelligence.</li><li>Prepared course materials for theory and practical sessions for each course including the supervision of student projects for each course.</li></ul>	

## SKILLS

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- **Languages:**
  - Fluent in English, Nepali, and Hindi
  - Basic conversation in Japanese and Thai
- Strong communication skills developed from presentation in academic conferences and teaching.
- Ability to work independently and in a team with experience in working on Agile framework.

## PUBLICATIONS

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- Pahari, N. and Shimada, K., (2023). Language Preference for Expression of Sentiment for Nepali-English Bilingual Speakers on Social Media. Sixth Workshop on Computational Approaches to Linguistic Code-Switching (CALCS-EMNLP2023 Workshop)
- Pahari, N. and Shimada, K., (2023). Handling data scarcity in code-mixing using learning-based approaches. 13th International Congress on Advanced Applied Informatics (IIAI-AAI), IEEE
- Pahari, N. and Shimada, K., (2022). Multi-task learning using bert with soft parameter sharing between layers. Joint 12th International Conference on Soft Computing and Intelligent Systems and 23rd International Symposium on Advanced Intelligent Systems (SCIS & ISIS), pp 1-6.
- Pahari, N. and Shimada, K., (2023). Character-level data augmentation on code mixed sentences for low-resource settings. The 29th Annual Conference of the Association for Natural Language Processing (NLP2023), P1-6, pp 161-165.
- Zhu, C., Pahari, N. and Shimada, K., (2023). BERTを用いた多言語同時学習による疾患分類. 言語処理学会第29回年次大会(NLP2023), P1-7, pp 166-170.
- Pahari, N. and Kaitwanidvilai, S., (2021). Semantic similarity calculation using the features from pre-trained vector and sentence level embedding. The 7th International Conference on Engineering, Applied Sciences and Technology (ICEAST), pp 218-226.
- Devkota, B., Miyazaki, H. and Pahari, N. (2019). Utilizing user generated contents to describe tourism areas of interest. First International Conference on Smart Technology & Urban Development (STUD), pp 1-6.