

Sulav Timilsina

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EDUCATION	Bachelor in Computer Engineering	Nov 2017 - Present
	Pashchimanchal Campus, Institute of Engineering, Tribhuvan University, Nepal	
	(10+2) in Science	June 2015 - June 2017
	SOS Hermann Gmeiner School Bharatpur, Bharatpur, Chitwan, Nepal	
	Graduated with an average score of 80.90%	

PROJECTS	Transformer-based Model for Nepali Language Understanding
	<ul style="list-style-type: none">With about 14.5 GB of text data (0.8 Billion words) by scrapping the top 50 Nepali News Sites, a BERT base model (110 M parameters) was pre-trained from scratch on TPU v3-128.Finetuned on 5 different downstream tasks (NER, Sentiment Classification, Sentence Pair Similarity, Content Classification, POS Tagging).

Single Image Super-Resolution

- Implemented SR-GAN from scratch on Tensorflow.
- Used Wasserstein Distance with Gradient Penalty to enforce smooth training of the generator-discriminator network.

Mero Health

- Built an Android app for Hospital/Doctors Appointment
- Used Flutter in frontend and Node JS in the backend with Mongo DB
- Implemented Naive Bayes Algorithm for the recommendation of doctors as per the symptoms.

Nepali Sign Language Detection

- Generated NSL dataset.
 - Trained a CNN model for classification of gestures of different alphabets in Nepali Language.
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MANUSCRIPT SUBMITTED FOR PUBLICATION

Gautam, M., Timilsina, S., & Bhattarai, B. (2022). *NepBERTa: Pre-trained Language Model for Nepali (Under review)*. Tribhuvan University, Tribhuvan University, Imperial College London.

TECHNICAL SKILLS

- Python with libraries used for machine learning and deep learning like *Pandas, Numpy, Scikit-Learn, Open-CV, Tensorflow, Huggingface, etc*
 - Cloud Computing with *Google Cloud Platform*
 - Deployment platforms like *Streamlit and Kubernetes*
 - Distributed training using *GPU and TPU*
 - Front end programming using *HTML/CSS*
 - Back end programming using python frameworks like *Django and Flask*
 - Android Development using *Flutter*
 - Version Controlling with *Git*
 - Linux skills like shell scripting and familiarity with different Linux distributions
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CERTIFICATES

- [Deep Learning Specialization](#) from deeplearning.ai on Coursera
 - **AI for Medicine Specialization** from deeplearning.ai on Coursera (On-Going)
 - [Winter School in AI](#) (11 Day Event) organized by [NAAMII](#), a non-profit research organization in Nepal
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HONORS AND AWARDS

- Winner of **LeapFrog Code Camp 2019**, a three-day event where my team presented a cheap EKG machine capable of detecting early signs of cardiac arrhythmia leveraging the power of Deep Learning
 - **Mahatma Gandhi Scholarship 2015**, provided by Indian Embassy in Nepal
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LANGUAGES

- Nepali: Native/ Bilingual Proficiency
- English: Fluent/ Full Working Proficiency
- Hindi: Fluent/ Full Working Proficiency