

Haejin Cho

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EDUCATION

University of British Columbia Vancouver, BC
Master of Data Science - Computational Linguistics EXPECTED 07/2021
Relevant Coursework: NLP; ML; Neural Network; Data Visualization; Corpus Linguistics; Algorithms; Statistics

Yonsei University Seoul, South Korea
Bachelor of Arts - Korean Language and Literature GRADUATED 08/2019
GPA: 4.22/4.3; Highest Honours 2018, 2019;
Relevant Coursework: Syntax; Semantics; Phonology; Morphology; Corpus Linguistics

EXPERIENCE

Yonsei Institute of Language and Information Studies Seoul, South Korea
Research Associate 03/2016 – 09/2017

- Participated in publishing the 8th edition of Dong-a Yonsei's Elementary Korean Dictionary
- Analyzed vocabulary frequency used in elementary textbooks to select lexical items for the dictionary

Advanced skills: Lexicology, Corpus linguistics, MS excel

PERSONAL PROJECT

COVID-19 Vaccine Sentiment Analysis [[Project Link](#)] [[GitHub](#)] 12/2020-02/2021

- Achieved an accuracy of 78% with the best model among the trials of different ML models such as LGBM, Logistic Regression, XGBoost and deep learning architectures.
- Deployed an LSTM model to predict sentiments of COVID-19 vaccines related tweets using Heroku and Flask
- Scraped tweets using Tweepy API, manually annotated sentiments of tweets, and preprocessed raw text data using tools in NLTK to perform a supervised learning task

Advanced skills: ML, FNN, NLTK, LSTM, PyTorch, Tweepy, Sentiment Analysis, Text Annotation, Flask, Heroku

ACADEMIC PROJECTS

Fine-tuning Wav2Vec2 on Non-native English Speech Corpus 04/2021

- Improved the pre-trained wav2vec2-large-960h-lv60-self model from 12.5% WER to 9.7% WER with a non-native English speech corpus
- Researched the current state of ASR technology on L2 English speakers, fine-tuned the base model with two different sizes of datasets, and experimented with different configurations to achieve better scores.

Advanced skills: ASR, PyTorch, Huggingface, Wav2Vec 2.0, transformers, Phonology, Git, Python

Building a Multilingual Parallel Corpus using TED transcripts [[Blog Link](#)] 03/2021

- Scraped transcripts from TED talks to create a parallel multilingual corpus using BeautifulSoup
- Using spaCy, automatically extracted named entities in English, Chinese corpora and improved annotation quality by using Amazon Mechanical Turk
- Deployed the parallel corpora with a user interface using HTML, JS, CSS, and FastAPI

Advanced skills: Web Scraping, Python, Corpus Linguistics, spaCy, NER, AMT, FastAPI, Docker, Git

ADDITIONAL INFORMATION

- **Technical Skills:** Python, Git, R, PyTorch, Pandas, Altair, NLTK, spaCy, BERT, MS Excel, Jupyter Notebook
- **Soft Skills:** Adaptability, Listening Skills, Self-motivation, Teamwork, Time Management, Problem Solving
- **Languages:** Korean (Native); English (Fluent); Japanese (Conversational); French (Elementary)
- **Extra Accredited Courses:** Linear Algebra, Introduction to Calculus at Athabasca University
- **Certificates:** Japanese Language Proficiency Test N1