# KIBEOM NAM

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#### **EDUCATION**

Hongik University

Mar 2017 – Feb 2022

Bachelor of Art Studies (Major, 51 credits)

Seoul, Korea

Hongik University

Mar 2019 – Feb 2023

Bachelor of Data Science (Interdisciplinary Major, 45) & Industrial Engineering (Minor, 36)

Seoul, Korea

Hakik High School

Feb 2016 Salutatorian

#### Internship

## ETRI Intelligence Information Research Division 🗹 | AI Research intern

Jan 2023 - Mar 2023

- Technical report : Conducted inference speed up of RESTful API test code minDALL-E, GLIDE, SD(1.4, 2.1), Karlo refactoring, Asynchronous processing and Evaluation of T2I Toolkit (Flask, Streamlit, Asyncio, Dockerize)  $\mathfrak{G}$
- Identified difference of text-image alignment w/ diffusion prior, DrawBench transform (category, n./adj., phr./SE)

# KAIST Graduate School of CT Information Based Design Lab 🗹 | External intern Jul 2022 – Dec 2022

• Conducted research proposal: Sementic embedding (TF-IDF, Word2Vec) of Crowd Opinions and Generative model

(CLIP+VQGAN, StyleGAN) for Virtual museum

ETRI Content Research Division ☑ | Research intern

Jan 2022 - Mar 2022

• Conducted report of statistical method, vgg19-based image processing in art appraisal domain

Hongik University user EXperience Innovation Design Lab 🗹 | Research intern

Mar 2021 – Sep 2021

 Advisor: Kyungdoh Kim Conducted statistical model-based research (TAM, IDT, ANOVA) on HMD VR interface and content attribute

#### Publications

### Korean Aspect-Based Sentiment Analysis via NLI-Based Pseudo-Classifier in Actual Domain

The 10th International Conference on Social Networks Analysis, Management and Security (SNAMS), 2023 Ki-Beom Nam<sup>†</sup>, Joo-Sun Yum, Accepted as Oral Presentation (voluntary withdrawal)

# A Comparative Study of Prompt form Based Text-to-Image Generation 🗹

Korean Institute of Information Scientists and Engineers (KIISE) at, korea computer congress (KCC), 2023 Ki-Beom Nam, Young-Joo Jo, Sang-Hun Jeon, Yong-Ju Lee

KPC-cF: Korean Aspect-Based Sentiment Analysis via NLI-Based Pseudo-Classifier with Corpus Filtering 🗹
The 18th Conference of the European Chapter of the Association for Computational Linguistics (EACL), 2024
Ki-Beom Nam†, submitted

# QUALIFICATION

- NLP with Classification and Vector Spaces Z, NLP with Probabilistic Models Z (DeepLearning.AI)

### AWARDS AND HONORS

### NEXPOT Service, Korea Tourism Organization and Kakao

May 2022 - Aug 2022

• Finalist in the Tourism data utilization competition, Korean ABSA task using BERT-based model

Awarded the Best team in tutoring the major, participated as a mentor, Hongik Art

Jul 2021

# KPC-cF: Korean ABSA via NLI-Based Pseudo-Classifier with Corpus Filtering 🗹 | Pytorch Nov 2023

- Kor-SemEval, KR3 Dataset construction and Fine-tuning
- BERT-single task vs BERT-pair task (NLI-M) (P-LM : BERT-multilingual, XLM-RoBERTa and Ensemble)
- Paper accepted on SNAMS 2023 (oral)
- Building a model to inject pseudo labels through threshold adjustment and LaBSE filtering
- Implementing t-SNE visualization code to check the changes in feature similarity of KR3 test data based on filtered pseudo NLI set, Extract embedding vector of KR3 test data (KPC-cF model's last hidden layer)

NEXPOT ☑ | Django, JavaScript, CSS, mySQL, KakaoMap API, YouTube API, AWS, HuggingFace

Aug 2022

- Market research questionnaire: statistical analysis (R), visualization of main variables (Python)
   Chi square test, one-way ANOVA, correlation analysis and visualization (Seaborn based plot, heat map)
- API design, Extract proper nouns from YouTube API description, Database construction using RDS and responsive web prototype development
- Kakao Map review data: crolling, topic modeling (BERTopic) and Multi-label multi-class classification (M-BERT)
- Proposed cloud-based web serving, Our team was able to take 1st place team

### Machine learning modeling with Bank data in kaggle 🗹 | Python, Scikit-learn

Mar 2021 - Jul 2021

- Data : Customer's term deposit subscription data in kaggle competition
- Problem definition : by EDA / binary classification
- Pre-processing: Remove missing and outliers, scaling and oversampling, Eliminate multicollinearity variables, and differences in labeling methods according to algorithms (logistic regression, tree-based)
- Model: Logistic Regression, Random Forest, LightGBM, and XGBoost
- Evaluation: Model selection in consideration of Precision, Recall, F1 score and ROC AUC
- Visualization : SHAP value-based feature importance visualization, Our team was able to take 1st place team

# The Seoul Research Institute's data Analysis and Application $\square$ | Python, R

Mar 2021 - Jul 2021

- Data: Citizen's quality of life survey data
- method : Structural Equation and Multiple Regression analysis
- Derived a scenario for using public policies in Seoul, Our team was able to take 2nd place team

### Autonomous vehicle accident damage prediction model | TensorFlow

Mar 2021 - Jul 2021

- Data : Accident data of Autonomous vehicle in California
- Problem definition : Multi-label classification
- Function: sigmoid and binary cross-entropy
- Model: DNN (tuning hidden layer, epoch, and batch size)
- Evaluation : Accuracy and Loss

#### Graduation online exhibition curating, Click-scroll-zoom exhibition

Jul 2020

#### Extra Activities

- Certificate of Lecture in NAVER boostcamp AI Tech 6th (Sep 2023)
- Studing deep learning in Session Based Recommendation System (Apr 2022)
- ML summer class in Department of Computer Science and Engineering (July 2022)

  Experienced how the ML process that exists in packages (Turicreate) such as Gredient decent, Score, Negative log

I stand in 3rd grade out of 8 persons (B+)

loss, Bayes, DT, Ensemble and CNN etc. operate

(Extra text: 1. grokking machine learning, Luis G. Serrano,

- 2. An Introduction to Statistical Learning, Deisenroth, G. James et al.)
- External scholarships from Sudokwon landfill site management corporation, Korea (jul 2021)
- Completion of school winter vacation big data course education, Hongik university (sep 2019)
- Operation of exhibition curating clubs and aesthetic studies, Hongik university (2019-2020)
- Middle and high school mathematics private tutor (2017-2018)
- Student council representative and event committee, Hongik university (2017-2018)

#### SKILLS

Programming: Python, R, SQL, Java, LATEX

Deep Learning: Pytorch, Colab (Advanced), Tensorflow, Keras, Huggingface (Intermediate)

Data analysis: Pandas, Numpy, Scikit-learn (Advanced)

Prototyping: Flask, Streamlit (Intermediate), DJango, MySQL, Docker (Basic)

Language: English (Intermediate) , Korean (Native)