

Jaeyoung Choi

+82(10)8220-9061 | cjengy@gmail.com | <https://jaeyoung-jane-choi.github.io>

EDUCATION

Sungkyunkwan University, Seoul, South Korea	Mar 2016–Aug 2021
<i>Bachelor in Library and Information Science (GPA: 3.93/4.50)</i>	GPA: 3.90/4.50
<i>Bachelor of Science in Data Analytics (GPA: 4.29/4.50)</i>	
Indiana University, Bloomington, IN	Aug 2019–Dec 2019
<i>Exchange Program in Luddy School of Informatics, Computing and Engineering</i>	GPA: 4.00/4.00

PUBLICATIONS

Workshops

- **J. Choi**, C. Han, H. Yang, Y. Hong, S. Jeon and Y. Zhu. 2021. Embedding-based Neural Network Models for Book Recommendation in University Libraries in *Workshop on AI + Informetrics (AII2021, 2021)* [Paper] [Presentation]

Journal Articles

- Y. Hong, **J. Choi**, C. Han, H. Yang, S. Jeon and Y. Zhu. 2021. A Study on the Development and Evaluation of Personalized Book Recommendation Systems in University Libraries Based on Individual Loan Records in *Journal of the Korean Society for Information Management (JKOSIM, 2021)* [Paper]
- **J. Choi**, H. Yang, H. Oh. 2020. Store Sales Prediction Using Gradient Boosting Models in *Journal of the Korea Institute of Information and Communication Engineering (JKIICE, 2020)* [Paper]

PROFESSIONAL EXPERIENCE

Data Scientist Intern <i>Naver Financial, Sunghnam, South Korea</i>	Jul 2021– Sep 2021
<ul style="list-style-type: none">• Designed stochastic gradient descent classification model to improve detection of suspicious transactions of TMS(Transaction Monitoring System)• Developed BERT-based features and Node2Vec embeddings to improve classification accuracy for suspicious transaction report(STR)	
Research & Development Intern <i>Data Marketing Korea, Seoul, South Korea</i>	Jan 2021–Mar 2021
<ul style="list-style-type: none">• Accomplished natural language processing for automated classification task of social media data via BERT, improving 15% in performance	

SELECTED PROJECTS

Machine Learning for Improvements of Transition Monitoring System <i>Python</i>	Jul 2021–Sep 2021
<ul style="list-style-type: none">• Conducted BERT, Node2vec and oversampling techniques(SMOTE, ADASYN) to build prominent angles for detection of suspicious transaction records	
BERT for Classification of Social Media Data <i>Python</i>	Jan 2021–Mar 2021
<ul style="list-style-type: none">• Designed and conducted BERT with rule-based models to improve classification of 600,000 text data on daily basis to discover potential customers opinion using PyTorch	
Recommendation System for Sungkyunkwan University Library	Oct 2020–Mar 2021
<ul style="list-style-type: none">• Supervised by Professor Zhu Yongjun, Sungkyunkwan University, Seoul, South Korea• Composed embedding based neural network book recommendation system for 34,335 students, 206,089 books and 662,402 loan records by creating embeddings of book metadata and user data through RoBERTa and Efficientnet	
Store Sales Prediction Using Gradient Boosting Models	Jun 2020–Dec 2020
<ul style="list-style-type: none">• Supervised by Professor Oh Hayoung, Sungkyunkwan University, Seoul, South Korea• Computed gradient boosting tree algorithms: XGBoost, LightGBM, CatBoost and missing data processing methods to predict future sales of 1,966 stores	

HONORS AND AWARDS

Co-deep Learning Project 3rd Place *Sungkyunkwan University, Seoul, South Korea* Feb 2021
Data Creator Camp Hackathon 3rd Place *National Information Society Agency, Seoul, South Korea* Oct 2020

SKILLS

Programming: Python, R, SQL, HTML, Qgis
Language: English(Fluent), Korean(Native)