Juhwan Choi

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Research Interest

Deep Learning, Natural Language Processing, Curriculum Data Augmentation

Education

Chung-Ang University Seoul, Korea
M.S. in Artificial Intelligence Mar. 2023 - Feb. 2025 (Expected)
Advisor: Youngbin Kim

Chung-Ang University Seoul, Korea
B.S. in Electrical and Electronics Engineering Mar. 2017 - Feb. 2023
GPA: 3.94 / 4.5 [Certificate] [Transcript]

Research Experience

Undergraduate Research Intern Intelligent Information Processing Lab @ Chung-Ang Univ.
Advisor: Youngbin Kim Apr. 2021 - Feb. 2023

Undergraduate Intern Big Data & AI Lab @ Chung-Ang Univ.
Advisor: Hohyun Park Jan. 2021 - Feb. 2021

International Publications

Generative Data Augmentation via Wasserstein Autoencoder for Text Classification [Paper] [Code]
Kyohoon Jin, Junho Lee, Juhwan Choi, Soojin Jang and Youngbin Kim
The 13th International Conference on ICT Convergence

Domestic Publications

KITE: Text Data Augmentation Methods using Korean Intentional Typographical Errors [Paper]
Seunguk Yu, Juhwan Choi, Heejae Suh, Kyohoon Jin and Youngbin Kim
Proceedings of HCI Korea 2023

Text Augmentation to Mitigate Overconfidence through Unfamiliar Data [Paper] [Presentation]
Junho Lee, Sahngmin Song, Juhwan Choi, Juhyoung Park, Kyohoon Jin and Youngbin Kim
Proceedings of HCI Korea 2023

Semantic Preservation Natural Language Data Augmentation via Variational Autoencoder [Paper] [Presentation]
Juhwan Choi, Junho Lee, Kyohoon Jin, Yehoon Jang, Soojin Jang and Youngbin Kim
2022 Summer Annual Conference of IEIE

Research Projects

Text Data Augmentation with Soft Label Aug. 2022 - Present
Submitted a paper.

Deep Learning Seminar Feb. 2022 - Mar. 2022
Based on Stanford CS224n and CS231n

Text Data Augmentation using Wasserstein Autoencoder Aug. 2021 - Jan. 2022
Related work research, Implemented text classification model.

Implementing Image Captioning Model using Transformers   Apr. 2021 - Jun. 2021

Korean Hate Speech Detection Model   Apr. 2021 - May. 2021
Used pretrained KcELECTRA. Ranked 11/88 (in Dec. 2022) at [Kaggle competition]

Deep Learning Seminar   Jan. 2021 - Feb. 2021
Based on CMU 11-785

Skills

Programming Languages	**Familiar:** Python | C | C++ **Experienced:** Matlab
Libraries & Tools	Pytorch | HuggingFace | Numpy | Pandas | Git | CLI
Language Proficiency	**Native:** Korean **Fluent:** English [TOEIC 955] [TEPS 409]

Relevant Coursework

Graduate Level

Artificial Intelligence   Advanced Natural Language Processing | Artificial Intelligence Literacy | Ethics and Fairness in Artificial Intelligence

Undergraduate Level

Computer Science   Algorithms | Artificial Intelligence | Basic Computer Programming | Computer Architecture | Data Structure | Digital Image Processing | Internet of Intelligent Things | Logic Circuit | Microcomputer Systems | Mobile Network | Numerical Analysis | Object-Oriented Programming | Operating Systems
Mathematics   Calculus 1 | Calculus 2 | Electric Mathematics | Engineering Mathematics | Linear Algebra | Random Variables