Mingi Shin

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Research Interests

My research interest is **Social Computing**, **NLProc**, and **Text Mining**, especially

- detecting **hate speech** from online space and analyzing cause/effect of them
- extracting meaningful topics from large corpus, such as blogs, forums, and SNS posts by **topic modeling**

Education

Korea Advanced Institute of Science and Technology (KAIST) Daejeon, South Korea
Candidate for Master of Science *Sep. 2021 - Aug. 2023 (Expected graduation)*

Korea Advanced Institute of Science and Technology (KAIST) Daejeon, South Korea
Bachelor of Science *Mar. 2014 - Aug. 2021*

- GPA: 3.1 out of 4.3
- Double major in Mechanical Engineering

Experience

Student Research Assistant September 2021 – Present
Data Science Group, Institute for Basic Science (IBS) *Daejeon, South Korea*

- Designing neural topic model to improve coherence using Transformer and Variational Auto-encoder
- Detecting and analyzing hate speech and harassment in crowd-sourced chatbot data by deep neural networks
- Finding sentiment change of chatbot users between pre- and post- COVID-19 pandemic

Intern June 2021 – Present
Simsimi inc. *Seoul, South Korea*

- Research of hate speech detection from crowd-sourced contents
- Research of pre-/post-pandemic emotional change from user utterances
- Detection of malicious contents in DB

Undergraduate Research Intern June 2020 – August 2021
Data Science Group, Institute for Basic Science (IBS) *Daejeon, South Korea*

- Twitter topic analysis about COVID-19 pandemic
- Improving coherence of topic model

Community & Leadership

Club President January 2017 – December 2017
KAIST PASSION, Cartoon Drawing Club *Daejeon, South Korea*

- Managing and designing club activities
- Publishing cartoon anthologies

Projects

Ataxx-ai | *Pytorch, Reinforcement learning* August 2020 – November 2020

- AI that plays Ataxx game, inspired by Alpha Zero by DeepMind
- Made for AI Competition of KAIST-Postech Science War

HauntedTweet | *Tensorflow 1, Python, heroku* December 2017 – February 2019

- Training tweet texts to generate similar texts using GRU neural network
- Building a Twitter bot to autonomously post generated texts

Publications

Hate speech detection in chatbot data using KoELECTRA October 2021
HCLT 2021 *Conference@South Korea*

- **Mingi Shin**, Hyojin Chin, Hyeonho Song, Jeonghoi Choi, Hyeonseung Lim and Meeyoung Cha

Identifying risk communication trend using an event detection model based on contrastive learning December 2020
KSC 2021 *Conference@South Korea*

- **Mingi Shin**, Sungwon Han, Sungkyu Park and Meeyoung Cha

A risk communication event detection model via contrastive learning December 2020
3rd NLP4IF Workshop on NLP for Internet Freedom: Censorship, Disinformation, and Propaganda *Conference@Barcelona, Spain*

- **Mingi Shin**, Sungwon Han, Sungkyu Park and Meeyoung Cha

Technical Skills

- **Languages**: Korean (Native), English (Conversational), Japanese (Conversational)
- **Programming Languages**: Python, R, C++
- **Libraries**: Pytorch, Scikit-Learn, Tensorflow
- **Developer Tools**: Jupyter Notebook, Git