Hongjun Lim

Machine Learning Research Engineer

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Education _____

KAIST (Korea Advanced Institute of Science and Technology)

Master of Science, Graduate School of Culture Technology

Data Science Lab

- Thesis: Understanding comments on social news: analyzing comment-reading behavior and comparing textual similarity on facebook news posts
- Advisor: Prof. Meeyoung Cha

Ajou University

Bachelor of Information Technology, Department of Digital Media

- Undergraduate Research Student, Integrated Design Lab
 - Project: NetSet: Interactive Visualization for Analyzing Sets in Large Networks
 - Advisor: Prof. Kyungwon Lee

Experience _____

NAVER Corp.

Tech Lead, Machine Learning Research Engineer, AiRSearch

NAVER Corp.

Machine Learning Research Engineer, AiRSearch

- Service
 - Launched recommendation systems in various domains, including news, video, and cafe.
 - News Fairness: Participated in the 2nd News Algorithm Review Committee as a one of news recommendation practitioners, and published news recommendation algorithms at the top-tier international conference (ICDE 22) and technical blogs.
- Research & modeling
 - *News Recommendation 2.0*: Designed and developed a news recommendation system 2.0 that introduces content-based personalized ranking features, social impact model, and diversification.
 - Self-Attention Recommendation: Researched on self-attention based models for personalized news recommendation.
 - Session-based Recommendation: Researched on user modeling based on the historical sessions for a short and long term recommendation using deep language model..
 - Content-based Filtering for Video Recommendation: Built a domain-specific language model for video services and developed a content-based model.
 - Clickbait News Detection: Built a model to classify articles into news and clickbait.
 - News Quality Estimation 2.0: Improved quality estimation which is a method for automatically assessing the quality of news articles without human intervention.
- Engineering
 - Designed and developed a framework which is developed based on PyTorch for reproducing and developing recommendation algorithms in a unified and efficient way.
 - Designed and developed the architecture to enable ML continuous training and delivery.
 - Designed and developed non-linear ranking framework that supports state-of-the-art ranking models based on deep learning techniques, and real time inference on C++ based serving layer.

NAVER Corp.

Machine Learning Research Engineer Intern, Video Recommendation

- Built a clustering ensemble based ANN (approximate nearest neighbor) model.
- Researched on video embedding with language model.
- Researched on topic modeling for video classification.

Daejeon, South Korea 2016–2018

Suwon, South Korea

2012-2016

Seongnam, South Korea Feb 2023 - Present

Seongnam, South Korea Sep 2018 - Jan 2023



Mar 2018 - Sep 2018

Onezero Soft, Inc. Research Institute

Software Engineer

- Researched on ML-based automatic product mapping methods for managing total financial information.
- Design, conduct, and report results from prototype that leverages modern web application frameworks.
- Developed and launched an Android application for jewelry sellers.

Additional Experience and Awards _

- Instructor. Incheon National University. Data Programming. Fall 2022
- Technical Research Personnel for alternative military service at Naver R&D Center (2018-2021)
- 1st place among college students in AI R&D Challenge (Ministry of Science and ICT; 2017)

Papers _

- *Hongjun Lim, *Yeon-Chang Lee, Jin-Seo Lee, Sanggyu Han, Seunghyeon Kim, Yeongjong Jeong, Changbong Kim, Jaehun Kim, Sunghoon Han, Solbi Choi, Hanjong Ko, Dokyeong Lee, Jaeho Choi, Yungi Kim, Hong-Kyun Bae, Taeho Kim, Jeewon Ahn, Hyun-Soung You, Sang-Wook Kim. AiRS: A Large-Scale Recommender System at NAVER News, In proc. of the IEEE International Conference on Data Engineering (ICDE), 2022.
 *These authors contributed equally.
- Sungmin Cho, Hongjun Lim, Keunchan Park, Sungjoo Yoo, Eunhyeok Park. On the Overlooked Significance of Underutilized Contextual Features in Recent News Recommendation Models, *arXiv preprint arXiv:2112.14370*, 2021.
- Seunghyun Yoon, Kunwoo Park, Joongbo Shin, **Hongjun Lim**, Seungpil Won, Meeyoung Cha, and Kyomin Jung. Detecting Incongruity Between News Headline and Body Text via a Deep Hierarchical Encoder, In *proc. of the AAAI Conference on Artificial Intelligence (AAAI)*, 2019.
- Jaewoo Kim, Yui Ha, Seungchae Kang, Hongjun Lim, and Meeyoung Cha. Detecting Multiclass Emotions from Labeled Movie Scripts, In proc. of the IEEE International Conference on Big Data and Smart Computing (BigComp), 2018.
- Hongjun Lim, Choongho Chung, Jihee Kim, Juho Kim, Sue Moon, and Meeyoung Cha. Changing News Media Landscape in South Korea, In proc. of the Fourth Workshop on Social News On the Web (SNOW) co-located with the World Wide Web (WWW) Conference, 2017.
- Heungseok Park, **Hongjun Lim**, Wonjae Lee, and Kyungwon Lee. NetSet: A Systematic Integration of Visualization for Analyzing Set Intersections with Network, In *proc. of the IEEE Pacific Visualization Symposium (PacificVis)*, 2017.
- Heungseok Park, Hongjun Lim, and Kyungwon Lee. NetSet: Interactive Visualization for Analyzing Sets in Large Networks, In proc. of the Symposium on Visualization in Data Science (VDS) co-located with the IEEE VIS Conference, 2015.

Patents _

- Myeongill Shin, Yonghyun Lee, and Hongjun Lim. Method and system for managing total financial information, Korea Patent, No. 10-2016-0048820.
- Hongjun Lim, Heungseok Park, and Kyungwon Lee. Apparatus and Method for Interactive Visualization for Analyzing Sets in Large Networks, Korea Patent, No. 10-2015-0148286.

Skills .

Languages Python, C++, SQL, Scala, Shell, Java, R

Frameworks PyTorch, Tensorflow, Scikit learn, Airflow, Kubeflow, Docker, Spark, Hive, Presto, Zeppelin