

YOUNGIN CHO

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EDUCATION

Korea Advanced Institute of Science and Technology

Mar. 2021 - Feb. 2023

Master's degree in Artificial Intelligence

Thesis: Mining Multi-Label Samples from Single Positive Labels

Korea Advanced Institute of Science and Technology

Feb. 2017 - Feb. 2021

Bachelor's degrees in Computer Science and Mathematics (double major)

WORK EXPERIENCE

NCSOFT

Mar. 2023 - Present

NC Research, Research Engineer

South Korea

Mobile game recommendation system

- Developed custom bandit algorithms to enhance the purchase of package items in a mobile game.
- Designed and implemented machine learning pipelines for training and inference.
- Built simulators and A/B testing tools for model evaluation and conducted on/offline tests.
- Demonstrated through focus group test that the proposed model outperformed the popularity-based model by 11.4% in terms of purchase volume.
- Related Skills: Spark, FastAPI, Airflow, Python

Coding assistant tools using large language models

- Developed and deployed a LLM server and copilot-like IDE extensions to enhance team productivity while preventing code leaks.
- Implemented a code interpreter feature utilizing open-source LLMs, allowing for real-time code execution and analysis within a conversational interface.
- Related Skills: React, FastAPI, vLLM, Pytorch, Typescript, Python

Kakao Corp.

Dec. 2018 - Feb. 2019

Recommendation Team, Internship

South Korea

Piccoma webtoon recommendation system

- Improved the preprocessing of comic descriptions and tag text used in content-based filtering algorithms.
- Designed and implemented deep-learning-based contextual bandit algorithms.
- Related Skills: MongoDB, RocksDB, Elasticsearch, Apache Kafka, Tensorflow, Python

PERSONAL PROJECTS

End-to-end development of [a personal website](#)

- Hosted and maintained a personal website on a home PC server.
- Provided machine learning paper reviews and programming problem solutions (> 1K).
- Related Skills: Kubernetes, Helm, ASP.NET Core, Tailwind CSS, Svelte, Typescript, C#

C++ HTTP server [implementation](#)

- Implemented an HTTP server in C++ with support for routing functionality using regex matching.
- Related Skills: Boost libraries, C++

AWARDS & CERTIFICATIONS

NeurIPS 2022 Scholar Award travel grant	Oct. 2022
Advanced to ICPC World Finals Moscow Invitational Contest	Sep. 2021
2019 ACM-ICPC Seoul regional 3rd place	Nov. 2019
2018 ACM-ICPC Jakarta regional silver	Nov. 2018
2018 ACM-ICPC Seoul regional 5th place	Nov. 2018
2018 ACM-ICPC KAIST competition gold	Oct. 2018
2018 KAKAO code festival 4th place	Aug. 2018
2018 Samsung Collegiate Programming Cup 5th place	Jul. 2018
2017 ACM-ICPC Daejeon regional 5th place	Nov. 2017
2017 KAKAO code festival 5th place	Sep. 2017

PUBLICATIONS

- Deep Imbalanced Time-series Forecasting via Local Discrepancy Density**
 Junwoo Park, Jungsoo Lee, **Youngin Cho**, Woncheol Shin, Dongmin Kim, Jaegul Choo, and Edward Choi
 European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases (ECML/PKDD), 2023
- Guiding Users to Where to Give Color Hints for Efficient Interactive Sketch Colorization via Unsupervised Region Prioritization**
Youngin Cho*, Junsoo Lee*, Soyoung Yang, Juntae Kim, Yeojeong Park, Haneol Lee, Mohammad Azam Khan, Daesik Kim, and Jaegul Choo
 IEEE/CVF Winter Conference on Applications of Computer Vision (WACV), 2023
- WaveBound: Dynamic Error Bounds for Stable Time Series Forecasting**
Youngin Cho*, Daejin Kim*, Dongmin Kim, Mohammad Azam Khan, and Jaegul Choo
 Conference on Neural Information Processing Systems (NeurIPS), 2022
- Mining Multi-Label Samples from Single Positive Labels**
Youngin Cho*, Daejin Kim*, Mohammad Azam Khan, and Jaegul Choo
 Conference on Neural Information Processing Systems (NeurIPS), 2022
- Residual Correction in Real-Time Traffic Forecasting**
 Daejin Kim*, **Youngin Cho***, Dongmin Kim, Cheonbok Park, and Jaegul Choo
 Conference on Information and Knowledge Management (CIKM), 2022

TEACHING EXPERIENCE

- Conducted mentoring for undergraduate students at KAIST in the Programming course. 2018
- Taught Incheon Science High School students as a Korea Olympiad in Informatics lecturer. 2018