SUJIN YUN

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Graduate School of Data Science

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RESEARCH INTEREST

Deep learning, reinforcement learning, generative models, and decision making

EDUCATION

3/2023 - 2/2025 **MS in Graduate School of Data Science** — **KAIST**
System intelligence Lab, supervised by Jinkyoo Park

3/2018 - 2/2023 **BS in Industrial Engineering** — **Yonsei University**

CONFERENCE

*: Equal contribution

ICLR, 2024 (Workshop, Spotlight), Under review

GTA: Generative Trajectory Augmentation with Guidance for Offline Reinforcement Learning [Paper Link][Github Repo]

ICLR 2024 Workshop: Generative Models for Decision Making
Jaewoo Lee*, Sujin Yun*, Taeyoung Yun, Jinkyoo Park

KDD, 2024

An Offline Meta Black-box Optimization Framework for Adaptive Design of Urban Traffic Light Management Systems [Paper Link][Github Repo]

KDD 2024
Taeyoung Yun*, Kanghoon Lee*, Sujin Yun, Ilmyung Kim, Wonwoo Jung, Mincheol Kwon, Kyujin Choi, Yoohyeon Lee, Jinkyoo Park

IN PROGRESS

Under review

Guided Trajectory Generation with Diffusion Models for Offline Model-based Optimization [Paper Link][Github Repo]

Taeyoung Yun, Sujin Yun, Jaewoo Lee, Jinkyoo Park

INDUSTRY PROJECT

4/2023 – 10/2023 **Automated Control of Compressor Operations through offline RL** — **Samsung Heavy Industry**

- Addressing the rising energy costs by optimizing power consumption through automated control of compressors in shipyards using offline reinforcement learning.

WORK EXPERIENCE

1/2022 – 2/2022 **CJ Logistics Data Science Team** — **CJ Logistics**

- **Data Scientist.** Developing a deep learning model for demand forecasting and vehicle number prediction algorithms based on logistics data.

3/2021 – 8/2021 **Voithru Data Science Team** — **Voithru**

- **Data Scientist.** Developing and maintaining KPI dashboard. Data analysis on youtube log data and user log data.

TEACHING EXPERIENCE

3/2024 – 6/2024 **Teaching Assistant** — **KAIST**

- IE437: Data-Driven Decision Making and Control

EXTRACURRICULAR ACTIVITIES

1/2022 – 12/2022 **YAI, Yonsei Artificial Intelligence club** **Yonsei University**

- Served as a club president
- Conduct seminars about learning on graph(GNN, Stanford CS224W)

1/2021 – 12/2021 **Ybigta** **Yonsei University**

- Project about training a chatbot agent with an emotion persona using a Korean emotion classification dataset and serving it through a messenger app.
- Conduct seminars about transformers in natural language processing

HONORS AND AWARDS

11/2021 **2nd Place** **CJ logistics AI/Big data & System Future Technology Challenge**

- Competition on product demand forecasting