## Yongjae Lee

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#### Biography

Yongjae Lee is a Master's candidate in Industrial Data Science & Engineering at the Pusan National University, Republic of Korea. His research interests include Business Process Management, Process Mining, and Data Science. He received his Bachelor's degree in Industrial Engineering from the Pusan National University in 2024. He is currently working on developing deep learning models for process mining and business process management.

#### Education

# Pusan National University BS in Industrial Engineering Pusan National University MS in Industrial Data Science & Engineering

#### **Projects**

#### A Study on the XPL (eXplainable Process Learning)

2023.03 - 2026.02

- Developed an AI-based explainable process mining methodology to create an automation tool capable of process monitoring, detection, analysis, and improvement.
- o Tools Used: Python, PyTorch, R

#### Development of Process Mining and AI-based Affectionate Intelligence Technology for Customer-Specific Behavior Modeling (with LG)

2024.03 - 2026.02

- o Developed a methodology for managing the customer's product usage process from a process perspective.
- o Tools Used: Python, PyTorch

#### Human Centered - Carbon Neutral Global Supply Chain Research

2023.06 - 2025.02

- Developed a core technologies for building an ecosystem that prioritizes safety and environmental sustainability across an integrated supply chain—spanning maritime, port, and land transport.
- Tools Used: Python, PyTorch

#### Teaching Experience

#### Teaching Assistant, Pusan National University

2025.06 - 2025.07

• LG Electronics Process Mining Term Project Guidance (3rd Prize)
Title: RAG-based Customer Claim Analysis System with Interface for LGE.

#### Teaching and Practicum Assistant, Pusan National University

2025.06

• Process Mining Classroom Training for LG Electronics (supported by Celonis)

#### Teaching and Practicum Assistant, Pusan National University

2024.06

• Process Mining Classroom Training for LG Electronics

#### Teaching and Practicum Assistant, Pusan National University

2024.03 - 2024.07

• Data Structures and Algorithms for Undergraduate Students

#### Awards

Grand Prize 2023.08

o PNU Industrial Artificial Intelligence Competition

#### Grand Prize 2023.02

o Graduation Project in Industrial Engineering, Pusan National University

### ${\bf Conference}$

Connectine	
Only if the first author and presenter  Multi-task trained Graph Neural Network for Business Process Anomaly Detection with a Limited Number of Labeled Anomalies	2025.09
23rd International Conference on Business Process Management (BPM 2025)	
Process-Aware Prediction of Procurement Lead Time for Shipyard Delay Mitigation	2025.07
The 28th International Conference on Production Research (ICPR 28)	
aport Container Dwell Time: Analysis of Determinant Factors with explainable Artificial Intelligence	2023.09
The 11th International Conference on Logistics and Maritime Systems (LOGMS 2023)	
Publications	
Excluding Korean publications	
Identifying Key Factors influencing import container dwell time using eXplainable Artificial Intelligence	2024.12
<b>Yongjae Lee</b> , Kikun Park, Hyunjae Lee, Jongpyo Son, Seonhwan Kim, Hyerim Bae 10.1016/j.martra.2024.100116 <b>☑</b>	
Predictive Process Monitoring for Remaining Time Prediction with Transfer Learning	2024.08
I.A. Nur, K.I. Mustafa, R.M. Hanif, D. Kim, $\textbf{\textit{Y. Lee}},$ H. Bae $10.24507/\text{icicel}.18.08.851$ $\checkmark$	
Patents	
Continual Learning Method and Device with Adaptive Memory Mechanism for Predictive Process Monitoring	2025
Hyerim Bae, Iman Alif Nur, Yongjae Lee, Dohee Kim	
Korean Patent, No.10-2025-0026041	
Technologies	
Languages, Puthon JavaScript	·

 ${\bf Languages:}\ {\bf Python,\ JavaScript}$ 

Framework: PyTorch, PyTorch Geometric, FastAPI

Simulation: Siemens Plant Simulation

 $\mathbf{Markup:}\ \mathrm{Markdown},\ \mathrm{L\!\!^{A}T}\!\!_{\mathbf{E}}\!\mathrm{X},\ \mathrm{HTML},\ \mathrm{CSS},\ \mathrm{XML}$