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| **Gyeom Hwangbo** |
|  |
| Bachelor Student |
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| **Education** | |
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| **• Kyung Hee University**  • Department of Industrial and Management Systems Engineering | Mar. 2023 – Present |
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| • Bachelor Student  • GPA: 3.54 / 4.5 | |

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| **Research Interests** |
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| • Medical Machine Learning  • Medical Imaging  • Medical Data Analysis |

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| **Research Experiences** | |
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| **• Zarathu Internship**  • Intern | Zarathu, Korea  Jul. 2025 – Present |
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| • • Medical data analysis  • • R package development  • • Web service deployment with Shiny  • • <https://github.com/zarathucorp/rashnu> | |

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| **Awards and Honors** | |
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| **• 2024 8th GIST AI Innovative Convergence Technology Contest**  • 1st place | Gwangju Institute of Science and Technology, Korea  Jul. 2024 – Aug. 2024 |
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| • • Table tennis robot contest  • • Ball detection and trajectory calculation using OpenCV and YOLOv5 (C++)  • • Rack-and-pinion robot using actuators, linear rail and 3D-printed components (C++)  • • <https://github.com/hbgyeom/Table_tennis_robot-> | |

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| **Projects** | |
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| **• 2024 XR Device Contents Makeathon** | Ministry of Science and ICT, Korea  Oct. 2024 – Nov. 2024 |
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| • • Real-time dysarthria detection and detection and correction application  • • Fine-tuned Whisper (AI) using dysarthria speech recognition data from AI-Hub (Python)  • • VR device application using Unity (C#)  • • <https://github.com/hbgyeom/XR_make-a-ton> | |

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| **Skills and Techniques** |
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| **• Programming and Development** |
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| • • Languages: Python, R, C, C++, Bash  • • Tools and Environments: Linux, Git, Docker, Neovim, Visual Studio Code, RStudio |
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| **• Artificial Intelligence and Machine Learning** |
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| • • Libraries and Frameworks: TensorFlow, Keras, scikit-learn, OpenCV, Hugging Face  • • Applications: Object detection, speech recognition, model fine-tuning (YOLOv5, Whisper)  • • Techniques: Supervised learning, CNN-based modeling, fine-tuning |
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| **• Statistical Analysis** |
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| • • R Packages: tidyverse, dplyr, ggplot2, data.table, MatchIt, jskm, jsmodule, jstable  • • Statistical Tests: t-test, Chi-square test, ANOVA, Correlation analysis  • • Models: Linear regression, Logistic Regression, Cox proportional hazards model, ARIMA  • • Causal Inference: Propensity Score Matching (PSM) |

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| **Languages** | |
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| **• Fluent English** | |
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| • • TOEIC 965 / 990  • • OPIc IH  • • English Interpreter, G-3 Operations, I Corps | Feb. 2025  Jul. 2024  Dec. 2021 – Jun. 2023 |