

DONGHWA KIM

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EDUCATION

Seoul National University

Mar. 2016 – Feb. 2022

Bachelor of Science in Physics and Astronomy

Seoul, Korea

- **Graduation Paper:** Black Hole Mass Estimation of H-Alpha Broad Emission Line (Advisor : Prof.Jong-Hak Woo)

EXPERIENCE

SETsystem

Sep. 2021 – Dec. 2021

AI Research Intern

Seoul, Korea

- Surveyed SOTA models for object detection and semantic segmentation to detect ship&wave on radar map
- Substituted much simpler and intuitive U-Net model for the previous Mask R-CNN model
- Improved the performance over 1% in the metric of mIoU

Massive Black Hole Lab.

Jun. 2020 – Aug. 2020

Undergraduate Research Intern

Seoul, Korea

- Estimated black hole mass and verified the significance of a follow-up study on the subject
- Suggested conditions to obtain black hole mass in a future study by analyzing the cases of failure

PROJECTS

Lyric Similarity-based Music Recommendation

Sep. 2021 – Dec. 2021

Data Mining Course

- Constructed an LDA model that performs clustering based on the similarity in lyrics
- Conducted hyperparameters tuning and examined the result

DACON : Parking Demand Prediction

Jul. 2021 – Aug. 2021

Likelion AI School

- Built ML model that predicts the number of parking required in an apartment complex
- Led the team and achieved the main contribution of the project on [github](#)

Burger Index

June. 2021 – Jul. 2021

Likelion AI School

- Analyzed the correlation between burger index and urban development index
- Deduced insights into expansion of BurgerKing stores
- Led the team and achieved the main contribution of the project on [github](#)

RELEVANT COURSEWORK

Courses

Mar. 2016 – Dec. 2021

Completed

- Mathematics :Linear Algebra, Mathematical Methods for Industrial and Management Engineering
- Programming : Programming Practice, Computational Astronomy, Computational Physics
- Data : Data Mining
- Seminar : Special Lecture on Data Science, Seminar on AI Core Technology and Applications

K-Digital Training Likelion AI School

May. 2021 – Aug. 2021

Certificated

SKILLS

Languages : Python, C++, HTML/CSS, SQL

Python Libraries : Pytorch, Scikit-learn, Numpy, Pandas

(last updated : 2021.12.22)