Minseong Bae | Curriculum Vitae

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Education

Korea University   **Seoul, South Korea**
Undergraduate   *Mar. 2021 - Present*

- B.S. in *Computer Science & Engineering*
- B.S. in *Mathematics* (Double Major)
- GPA : 4.48/4.5 (for 5 semesters, Major GPA : 4.47/4.5)

Busan Science High School   **Busan, South Korea**
High School Diploma   *Mar. 2018 - Feb. 2021*

Interests

Graph Neural Networks
- Graph representation learning
- Multi-modal applications with graph modality; Knowledge graph question-answering, Scene graphs

Generative Models
- Score-based models
- Diffusion models

Mathematics for Computer Science
- Numerical optimization
- Linear algebra
- Graph theory

Experiences

MLV Lab, Korea University   *Jul. 2022 - Present*
Undergraduate Intern

- Studying graph neural networks and machine learning
- Advisor: Prof. Hyunwoo J. Kim

Awards & Scholarships

14th KSCY Excellent Youth Scholars Award   *2019*
- In Computer Engineering Session
- Epitope prediction in allergens using PPI prediction model

Dean's Award, Korea University   *Spring 2021*
- Award given to a undergraduate student with GPA 4.5/4.5 for a semester

President's Award, Korea University   *Fall 2021 - Fall 2022*
- For 3 semesters
- Award given to a undergraduate student with GPA 4.5/4.5 for two consecutive semesters

National Scholarship for Science and Engineering, Korea Student Aid Foundation   *2023 - 2024*
- 2-year full scholarship for tuition fee

Courseworks

Computer Science
- Data Structure, Algorithms, Databases
- Theory of Computation, Programming Language
- Logic Design, Computer Architecture, Information Security
- Discrete Mathematics, Introduction to Convex Optimization
- Artificial Intelligence, Machine Learning, Deep Learning
- Introduction to Computer Vision & its Application, Advanced Machine Learning (Generative Models)

Mathematics
- Calculus I, Number Theory, Set Theory
- Analysis I, Linear Algebra I

Skills

- **Programming Languages:** Python, C, C++, OCaml
- **Frameworks & Tools:** Tensorflow, Keras, scikit-learn, PyTorch, (basic) Pytorch Geometric
- **Languages:** Native in Korean, Conversational in English

Extracurricular Activities

Completed Yonsei University-Naver Cloud Data Science Education Course *2021*

President of Korea University Computer Science Academy *Sep. 2021 - Present*
- Various studies and projects about computer science
- Working as instructor for various studies

Co-Founder of AIKU; AI in KU *Sep. 2022 - Present*
- AI academic society for undergraduate students in Korea University
- Working as administrator and leader for various projects & studies

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