Minseong Bae | Curriculum Vitae

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Education

Busan Science High School **Busan, South Korea**
2018-2020

Korea University **Seoul, South Korea**
College of Informatics, Dept. of Computer Science & Engineering *2021-Current*

- (Plan) Double Major : Dept. of Mathematics
- GPA : 4.50/4.50 (for 4 semesters)

Interests

Computer Science

- Machine Learning / Deep Learning
  : Graph Neural Networks, Safe AI (Adversarial Attack / Defense), Generative Models
- Programming Language
- Problem Solving

Mathematics

- Mathematics for ML/DL/Computer Science
- Algebra, Discrete Mathematics & Graph Theory, Number Theory

Projects

Epitope prediction in allergens using PPI prediction model *2019*

- Data Preprocessing with Stanford SNAP Yeast PPI data
- Modeling based on scikit-learn, Tensorflow, Keras
- Awarded 2019 R&E Academic Presentation Contest
- Awarded 14th KSCY Excellent Youth Scholars Award in Computer Engineering Session

Prediciton of Successful Shooting and Connectivity Index of Team Network in Basketball *2022*

- Predicting whether shooting is successful or not with NBA shooting data using machine learning techniques
- Visualization of team network and devising connectivity index of team with NBA game pass data

Awards

2018 I&D Academic Presentation Award - 3rd *2018*

- Development of Remotely Operated Underwater Robot of Collaborative Robot for Ship Salvage

2019 R&E Academic Presentation Award - 3rd *2019*

- Epitope prediction in allergens using PPI prediction model

14th KSCY Excellent Youth Scholars Award *2019*

- In Computer Engineering Session
- Epitope prediction in allergens using PPI prediction model

36th Seoul National University Data Mining Camp - 2nd *2019*

5th Super Computing Youth Camp by KISTI & UNIST - 2nd *2019*

Dean's Award *2021 Spring*

President's Award *2021 Fall, 2022 Spring, 2022 Fall*

Courseworks

Computer Science

- **Data Structure** (2021-2)
- **Algorithms** (2021-2)
- **Artificial Intelligence** (2022-1)
- **Theory of Computation** (2022-1)
- **Discrete Mathematics** (2022-1)
- **Logic Design** (2022-1)
- **Programming Language** (2022-2)
- **Information Security** (2022-2)
- **Computer Architecture** (2022-2)
- **Deep Learning** (2022-2)
- **Machine Learning** (2022-2)

Mathematics

- **Calculus I** (2022-1)
- **Number Theory** (2022-1)
- **Set Theory** (2022-2)

Skills

- **Programming Languages:** Python, C, C++, OCaml
- **Frameworks & Tools:** Tensorflow, Keras, scikit-learn
- **Languages:** Native in Korean, Conversational in English

Extracurricular Activities

Leader for Korea University Computer Science Academy *2021 Sep-Current*

- Various Studies and Projects about Computer Science
- Working as Instructor for Linear Algebra / Probability & Statistics studies

Co-Founder of AIKU; AI in KU *2022 Sep-Current*

- AI academic society for Korea University undergraudate students
- Participating in NLP team and working as administrator

Undergraduate Intern in MLV Lab of Prof. Hyunwoo J. Kim *2022 Jul-Current*

- Undergraduate Intern for Korea University MLV Lab (https://www.hyunwoojkim.com/)
- Studying Graph Neural Networks, Machine Learning

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

- Basic ML Algorithms : Linear Regression, Decision Tree, Logistic Regression, Random Forest, SVM
- Artificial Neural Networks & Deep Learning(CNN, RNN, Q-learning), Text Mining & NLP