Hyung-Kwon Ko

https://hyungkwonko.github.io/

Email : *hyungkwonko@gmail.com*
Mobile : +82-10-4845-5874

INTERESTS

- Algebraic topology & Information geometry
- Data dimensionality reduction and its visualization
- Explainable artificial intelligence (XAI)

EDUCATION

- **Seoul National University**   Seoul, Republic of Korea
  M.S. student in Computer Science and Engineering (Advisor: Professor Jinwook Seo)   Sep 2019 - present

- **Hanyang University**   Seoul, Republic of Korea
  B.S. in Mathematics, Minor in Industrial Engineering   Mar 2014 - Aug 2019

EXPERIENCE

- **Human-computer Interaction Laboratory**   Seoul, Republic of Korea
  Laboratory of professor Jinwook Seo at Seoul National University, Undergraduate intern   Mar 2019 - Aug 2019
    - **Went through HCI team project**
      - Research topic: Personal preference of Youtube content depending on one's time and place

- **LG Electronics**   Seoul, Republic of Korea
  Home electronics company, Cloud center, Service development team, Intern   Jan 2019 - Feb 2019
    - **Worked on data mining project in customer relationship management(CRM) for sales promotion**

- **Wesley Quest**   Seoul, Republic of Korea
  Strategic consulting firm, Big data team, Research associate   Jun 2018 - Aug 2018
    - **Participated in two big data projects. Made deep-learning based prediction model using Python**
      1) Improvement of the management system and air quality in Seoul Metro (Client: Seoul Digital Foundation)
      2) Inventing the model of predicting the workers compensation using big data (Client: Korea Workers Compensation and Welfare Service)

- **Probability and Statistical Modeling Laboratory**   Seoul, Republic of Korea
  Laboratory of professor Suk-Joo Bae at Hanyang University, Undergraduate intern   Mar 2017 - Nov 2017
    - **Participated in laboratory seminar with senior students weekly**

- **The Actors Theatre Workshop**   New York, NY, USA
  Nonprofit organization, Intern   Mar 2016 - Aug 2016
    - **Participated in a social project(Builders of the New World) as a main staff**
      - Managed human resources, crowdfunding tasks and donations for the program

AWARDS

- **3rd place in Big Contest**
  National Information Society Agency and Korea Bigdata Forum   Aug 2018 - Oct 2018
    - Developed 'Financial Information Index for Individual User' with Shinhan Bank's customer data

- **2nd Place in Artificial Intelligence Novel Competition**
  KT and KOCCA   Mar 2018 - Aug 2018
    - Made deep learning-based Korean sentence recommender which uses BiLSTM and Doc2Vec algorithm
    - Received an opportunity to participate in KT's next project and 20,000,000 KRW of prize money

- **2nd Place in Academical team research**
  Natural Science college of Hanyang University   Mar 2017 - Nov 2017
    - Predicted the number of visitors of children's grand park with regression, SVR and time series model

Programming Skills

- **Languages**: Python(tensorflow, keras), R, C/C++, JavaScript(node, d3.js), Matlab, SQL

- **Technologies & Tools**: git, vim, AWS EC2, LaTeX

Military Service

- **Transferred from active service to first reserve**
  Republic of Korea Army, 11th Division, Administrative Clerk   *Jun 2011 - Mar 2013*