**Hyejin Won**

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| (address) Nowon-gu, Seoul | (mobile) 010-9395-1789  (email) [whj0210@gmail.com](mailto:whj0210@gmail.com) |

**Education and Training**

*Korea University*Feb 2015 - Aug 2021(Expected graduation)

**•** Double degree inComputer Science and English and English Literature(EEL)

**•** Double major in Convergence Security

**•** GPA:3.97/4.5(Computer Science, current), 3.94/4.5(EEL, Convergence Security)

**Skills**

**•** Programming Language : C, Python, Ruby, JS, SQL, R

**•** Language**:** Korean(Native), English(High-Intermediate)

**Work Experience**

*ETRI(Electronics and Telecommunications Research Institute)* Dec 2017 – Feb 2018

Intern

• Image classification planning, labelling, data preprocessing

*Market Kurly* Jan 2019 - Feb 2020

Intern, Staff

**•** Establish Merchandise and category strategy using purchase data

**•** Publish weekly trend reportusing keywords and adjust merchandise exposure

**•** Promotion planning

**Related Projects**

*Scandinavia Truck classification using dense net[[1]](#footnote-1)*

**•** Predicting whether the truck needs repair or not. NA proportion being high, focused on NA replacement. Through EDA, found relation between NA ratio and class, and decided NA replacement method for each columns.

**•** Being individual project, responsible for whole steps.

**•** Best validation accuracy showed over 0.975%

*Automated stock trader using reinforcement learning*

**•** Stock trader that makes decision to sell/hold/buy by using decision model trained with DQN(Deep Q-network)

**•** Responsible for building DQN model. Simulation over 2019.07~2019.08 gained profit of -3.7%. (Descent performance considering KOSPI during the same period changed -7.5%.)

**•** Won 3rd prize in Capstone Competition in Korea University

*Spam Filtering program[[2]](#footnote-2)*

**•** Binary classification using deep learning models. Used fast-text to be robust to anomalous words and CNN.

**•** Being individual project, responsible for whole steps

**•** Best performance showed 94.979%

*Trend index prediction using LSTM*

**•** Developed a dashboard that shows the trend index graph of next 3 months per keyword.

**•** Responsible for project planning(e.g. definition of trend and index), data collecting using Naver keyword API, EDA and data preprocessing, building prediction model using Seq2seq with Tensorflow.

**•** Got grade of A+ in Deep Learning course.

*Food allergy info searching platform*

• Developed a web platform to search restaurants depending on user’s allergy; users check the allergy they have, and search result shows where they can visit and menus they can eat.

• Responsible for planning, back-end development using Ruby, and presentation.

• Accepted to KIA SEED SCHOOL and ran beta version service for 2 months. Gained positive response from the user evaluation, especially on UX and necessity.

**Certificates and Scholarships**

**•** Capstone Competition in Korea University (3rd prize)

1. https://github.com/heavencandle/kubig\_competition\_20202R [↑](#footnote-ref-1)
2. https://github.com/heavencandle/SpamFilter [↑](#footnote-ref-2)