KEONWOO CHOI

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https://github.com/KeonwooChoi

Born 10 March 1994

EDUCATION

MAR 2015 – FEB 2021

B.S Computer Science

SangMyung University, Seoul
GPA 3.5/4.5

FEB 2021 – JUNE 2021(plan)

BoostCamp AI Tech

NAVER Connect Foundation, Seoul

Languages & Certifications

TOEIC 895/990
Engineer Information Processing
SQL Developer (SQLD)

SKILLS

Languages Python/Javascript

Libraries & Tools Pytorch/HuggingFace/Pandas/Scikit-learn/React/Nodejs/MySQL

PROJECT

NOV 2019 – OCT 2020

Chatbot Framework

- React, Nodejs, MySQL, AWS
- Developed APIs that link the chatbot data which is consist of pairs of keywords and answers entered by the user to the messenger platform (e.g.,LINE,Telegram).
- Implementing a user-friendly UI similar to messenger platform using React
- https://github.com/KeonwooChoi/EZ.ai

Competitions

BoostCamp Image Classification of mask wearing status

- Classify 18,900 images to 18 classes (3 for mask status, 2 for gender, 3 for age)
- What I've done: Soft voting each 5 folds of Resnet, EfficientNet
- What I've learned: How to set cross validation strategy becareful of data leakage, Hyperparameter tuning using Wandb, Various image augmentation to imporve accuracy which include cutmix.

BoostCamp Extracting relationships between entities in a sentence

- Extracting relations and classify to 42 classes (9,000 sentences of KLUE Data)
- What I've done: Solving relationship extraction task as Multi-Turn question answering.
- What I've learned: Make a custom tokenizer to split into syllables considering the characteristics of Korean(agglutinative language)

BoostCamp Multi-Domain Conversation State Tracking

- Tracking states of each turn in dialogues (7,000 dialogues data from Wizard-of-Seoul)
- What I've done: Implementing several SOTA models(e.g.,CHAN-DST,Transformer-DST) to suit our task and ensemble them. If a state is not in the ontology, the accuracy is much lowered, so I focused on the generative models.
- What I've learned: The structure of ontology-based and generative models and their pros and cons

BoostCamp Deep Knowledge Tracing (In progress)

- To predict whether the user will answer last question correctly based on the user's study history (7,442 users data from i-screamedu)
- What I've done: Referring to the 1st place solution in a similar competition of Kaggle, after increasing data 10 times by cropping sequence data with window sliding.
- What I've learned: Importance of feature engineering to imporve accuracy

INTERESTS

Interested in improving performance by reading the paper and implementing them appropriately for our task.

Interested in extracting questions and answers from large documents and tracking accurately without losing state from long dialogue.

Interested in multi-modal tasks that can represent real human experience.

Military Service

MAY 2016 – FEB 2018 Korea Army, Republic of Korea

- Complete military service as a auxiliary police in the 3rd platoon.