

Progress Report

My PhD Research

1. Conduct the Literature review on Transformer.[1] [2]
2. Finish online courses -- Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization

AMBOSS Data Processing

Crawl and process data from amboss.com: [AMBOSS disease data.json](#)

(<https://drive.google.com/file/d/1viZq98nellf6FbiLYCNY-PldBjbmSd9y/view?usp=sharing>), contains 1021 disease and relevant information (clinical features, treatment, etiology, summary, etc.)

These data are well structured and maybe can be applied to the chatbot in the future. I'll try to crawl and create an index for the terminologies in the description.

Future Plan

1. Conduct online courses: Structuring Machine Learning Projects
2. Continue to work on the amboss data collection and processing.

Reference

[1] Pavlopoulos J, Kougia V, Androutsopoulos I, et al. Diagnostic captioning: a survey[J]. arXiv preprint arXiv:2101.07299, 2021.

[2] Chen Z, Song Y, Chang T H, et al. Generating radiology reports via memory-driven transformer[J]. arXiv preprint arXiv:2010.16056, 2020.