Paper Title: FIRE: Food Image to REcipe generation
Paper ID: 731

Files Description

download.py

As the dataset contains images over 500,000. So downloading them in sequence was time consuming. Therefore, we download the images using 40 processes to speed-up the process.

data_clean.ipynb

While downloading the images from web there are cases when the images were corrupt or not able to download. We want to iterate all the recipe folders and delete the folders which are empty. Moreover, we deleted the instances of such recipe from the json files as well. This file performs deleting of empty folders and cleaning the json files which will be used during train and validation.

requirements.txt

File containing all the libraries and dependencies which should be installed.

ingredients/train.py

To train the ingredients model, please run:
python3 train.py --use_vision_transformer --model_name=ingr_vit --ingrs_only

title.ipynb

This is a notebook, run this in sequence to fine-tune the BLIP model on Recipe1M dataset.

cooking_instructions.ipynb

This is a notebook, run this in sequence to fine-tune the T5 model on Recipe1M dataset.

code_generation.ipynb

Notebook for the recipe to code generation based on few-shot prompting. *(Required OpenAI API keys.)*

customization.ipynb

Notebook for the recipe customization based on few-shot prompting. *(Required OpenAI API keys.)*

metric.ipynb

To evaluate the performance of title, ingredients, and cooking instructions output, use this notebook.