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Dataprep

Standardize data format. Retrieve source sentences.

all_annotations_v1.json contains littrans data is from https://github.com/marzenakrp/LiteraryTranslation wmt23/ contains en-de and de-en datasets from the WMT2023 testsets

json2csv_littrans.py

Parses a json file with annotations and creates csv files for each book (language pair): para (gpt3, human) and sent formatted as para (gpt3, nmt). Extracts human preferences into a csv file output/littrans_annotators_choices.csv

txt2csv_wmt23.py

Converts the WMT23 txt files to csv files, merging the source and target languages into one file. Para (human, gpt4), sent (nmt).

run_csv2json4Llama.sh -> csv2json4Llama.py

Iterates through all_csv/{lang}.para.human.csv and extracts source paragraphs into json files formatted for Llama.

split_sents.py needs GPU

Iterates through all_csv/{lang}.para.human.csv files, preprocesses source texts and standardizes punctuation based on lang prior to segmentation. Splits source texts into sentences. Writes json files formatted for Llama, writes txt files.

Create translations

translate_gpt.sh -> translate_with_openAl.py

Iterates through /dataprep/source_\${level}_json/*.json. Uses OpenAl API to produce translations with GPT-3 and GPT-4. Saves files to translated/\${level}-level. Script needs to be manually adjusted depending on level and model. Read annotation.

Translating with Llama

- 1. Translate (needs GPU)
- 2. run_json2csv4Llama.sh -> json2csv.py

Converts json files from Ilama_translations/Ilama_{level}_json to Ilama_translations/Ilama_{level}_csv

3. clean_Llama_with_gpt4.py

Iterates through Ilama_translations/Ilama_{level}_csv and flags missing transaltions with NO TRANSLATION FOUND. Flagged lines are sent back to the model for re-evaluation, which

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produces flags: <<WRONG STATEMENT, TRANSLATION FOUND>>, <<INACCURATE TRANSLATION>>, and <<CORRECT STATEMENT, NO TRANSLATION FOUND, because>> Writes files to llama_translations/llama_{level}_gpt4_cleaned/ Make sure to indicate the "id" number of the line where to start processing file.

- 4. Feed flagged src-tgt pairs back to Llama for re-translation.
- 5. remove_gpt4_flags.py
- 6.