R001_Fall_2023_AI_Reproducibility - Context Labelling

Instructions for setting up the development environment

- 1. You may use Jupyter Notebook (recommended)/Google Colab with any Python 3.8+ stable environment.
- 2. Clone the below repository.

https://github.com/lamps-lab/ai-reproducibility

3. required folder structure.

Instructions for using jupyter notebook

- 1. Locate the directory where folder structure is set up
- 2. Run the jupyter notebook "R001 Citation Context Labelling Shared.ipynb"
- 3. when interruptions occur look for the "temp_labelling.json" file within the Citing_Paper_contexts_lables" folder for backup of the current working file

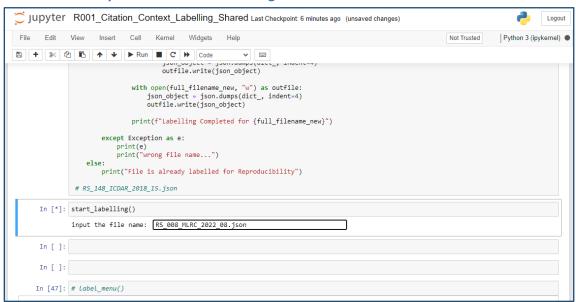
Instructions for labelling

- 1. Run all the cells up to the start_labelling() cell
- 2. Enter a .json filename from the list available_files_for_labelling (ex: RS_148_ICDAR_2018_15.json)
- 3. use one of the five values (-2, -1, 0, 0.5, 1) as the input label score
- 4. use the below guideline when choosing the label score.

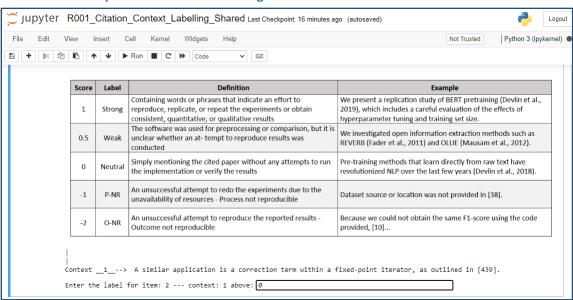
Score	Label	Definition	Example
1	Strong	Containing words or phrases that indicate an effort to reproduce, replicate, or repeat the experiments or obtain consistent, quantitative, or qualitative results	We present a replication study of BERT pretraining (Devlin et al., 2019), which includes a careful evaluation of the effects of hyperparameter tuning and training set size.
0.5	Weak	The software was used for preprocessing or comparison, but it is unclear whether an attempt to reproduce results was conducted	We investigated open information extraction methods such as REVERB (Fader et al., 2011) and OLLIE (Mausam et al., 2012).
0	Neutr al	Simply mentioning the cited paper without any attempts to run the implementation or verify the results	Pre-training methods that learn directly from raw text have revolutionized NLP over the last few years (Devlin et al., 2018).
-1	P-NR	An unsuccessful attempt to redo the experiments due to the unavailability of resources - Process not reproducible	Dataset source or location was not provided in [38].
-2	O-NR	An unsuccessful attempt to reproduce the reported results - Outcome not reproducible	Because we could not obtain the same F1-score using the code provided, [10]

Example Screenshots

Screenshot 01: Input a file name for labelling



Screenshot 02: Input a label score for a single citation context



Screenshot 03: Ignoring already labelled files

```
| Logout | L
```