

Extracting cause and effect from sentences

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Problem statement

- Extracting cause and effect from sentences
- Quick example

Quick example

Sentence: “The car crashed into a tree because the driver was texting.”

Cause: “the driver was texting”

Effect: “the car crashed into a tree”

More examples

- One cause, multiple effects
- Multiple causes, one effect
- Multiple causes, multiple effects

Statistics about the dataset

Split	# Examples	1:1	1:N	N:1	N:N
Dev					
Train					
Test					

Primary model results

Model name	Token F1	EM	Class Acc	Class F1
GenQA (extraction)				
GenQA (joint)				
Sequence Labelling				
BERT (data paper)				

Problem with EM evaluation

- Example of data annotation vs model output

Solution: RL framework

The RL framework diagram

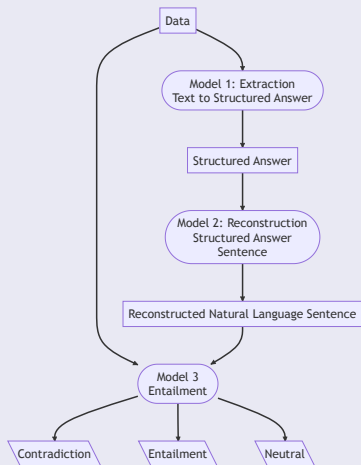


Figure 1: RL framework

Next steps

- Execution of the RL framework
- Experiments to find out the best algorithm, setup, rewards, etc.

Current issues

- Model size in memory
- How to best train this?