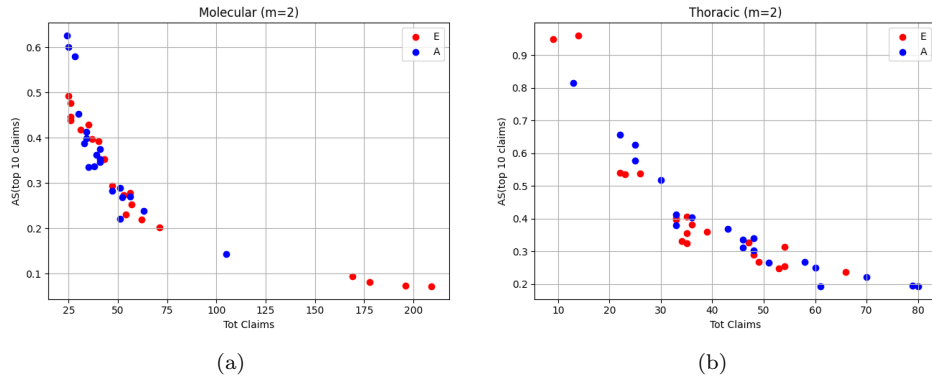# Document Classification - Results

May 19, 2025

1 Top k metric

We evaluate as metric the top k score (logits that comes out from the model) of the best k sentences classified as Claim or MajorClaim (with $k = 10$), versus the sum of the number of sentences that are Claim or MajorClaim.
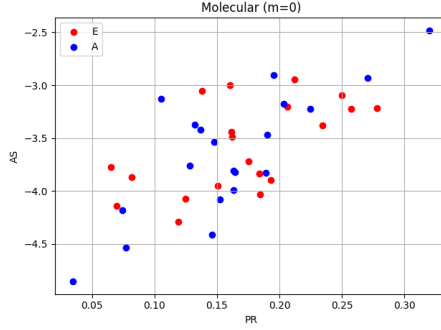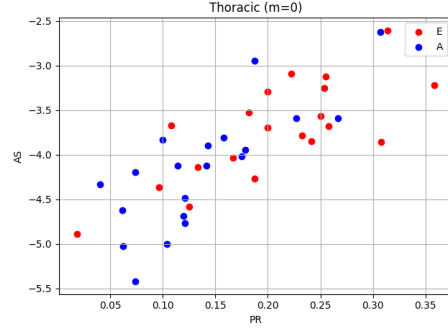

(a)

(b)

2 AS vs PR (first version)

We plot the argumet score (AS) vs. the premise ratio (PR), with:

$$AS = \frac{1}{\sum logits} \sum max(CS, MCS) \qquad PR = \frac{N_p}{N_t} \tag{1}$$

where CS is the Claim Score (logit of the Claim class), MCS is the Major Claim Score (logit of MajorClaim class), N_p is the number of sentences classified as premise and N_t is the number of total sentences in the document.
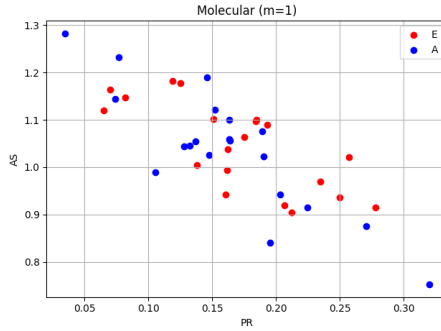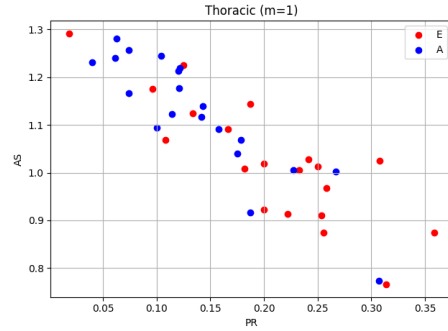
(a)

(b)

3   AS vs PR (second version)

The last metric takes into account AS and AR, where AR is the same as defined above while AS is:

$$AS = \frac{1}{N_t} \sum max(CS, MCS) \tag{2}$$

(a)

(b)

2