ORES Custom Documentation VII

Disclaimer: No guarantee for the correctness of information / explanations / sources is given.

Goals

1. Look further into visualisation possibilities for Use Case 1

1 Data Visualisations

<u>Use Case 1</u>: maximum recall @ precision $\geq = 0.9$

1.1 Quick brainstorming

- Maybe we should not focus on constructing sdomething that works for Use Case 1, but already look for solutions that will help with every query.
- The common factor are the confusion matrix values: TP, FP, TN, FN and still the best visualisation to me is the Google Discrimination Threshold one (Link).
- I feel like constructing something like that and then showing pie charts or something similar to put the focus on the metrics of the query would be optimal, even though we don't need to be able to move the threshold. The threshold doesn't have to be the center of attention for a visualisation like that. It can just be put where it belongs automatically, based on the other metrics, to give a better understanding of where the negatives end and the positives start.

1.2 Concrete suggestions

• Example of how the process could look like ...?:

EXAMPL edits so	ore probe force solits	Score prob. true	
2 0.1	75	0.6	
3 0.	15 13	0.65	
5 0.		0.75	
6 0:	3 16	0.85	
3 0.3	18	0.5	
0.4	5 73	0.95	
10 0 1		1	
max	recall @ preci	$\Rightarrow 0.5$	
-> opt.	query: recall =	0.082	a (2) 3 × 80
	· threshold:		ut side: precision = 0.9
=> we	know:	No.	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	00000	00	Q 0.5 = 1922
lelf	side & += 0	0.312	
	m = 0.968		
-1			
10	0.968 = 17.424		1 2 4 6 0 1 5
→ 18°	217		possible issue:
	140		- the models recoil: 0.082
	TN	TP	- recall here: 2
1 / / / /	7		3
	00000		The state of the s
A STOTE OF		00	recall is still wishat on warmed.
	0		(-> it is important to the
	0 7	1	wer in a quer/like
	FN 0.	312	that)
with X ==50	edits to ento,	n the 17,000 s	omewhat edits, only very few
1 000 mg a 000 0.16	ce this will	probbly reacher	d >= 0.90 prob. true of
Deapoler all	the time.	being dama	gray (probably way tens
Day to exp	Earl	than it	ometing exists, only as food of >= 0.9% probably used less like it is the case here
what's going	on?	20	M 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	180.5	178/20 1/0/4	
7 1 0 0 0		1 x 67 2	1 7 PT 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
The state of the s			

- https://beta.observablehq.com/@mbostock/d3-histogram Histogram.
 - Insert score. probability.true values into the array \checkmark
 - Manually paint threshold ontop of it (?)

- Differently color bars to account for probabilities of TP/FP and TN/FN distributions (?)1
- https://bl.ocks.org/mbostock/4062085

Originally Population Pyramid

Same approach as for the histogram, but maybe easier to color bars (multiple colors)?