

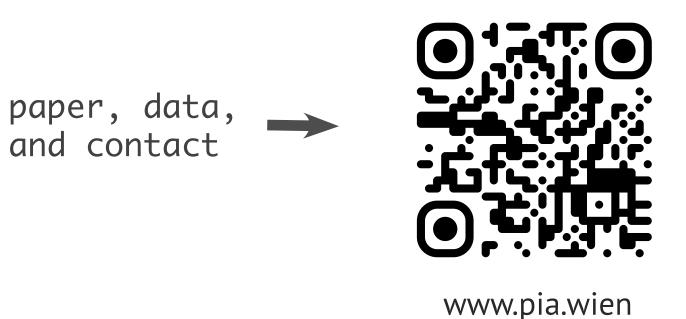
AustroTox





A Dataset for Target-Based Austrian German Offensive Language Detection

Pia Pachinger, Janis Goldzycher, Anna Maria Planitzer, Wojciech Kusa, Allan Hanbury, Julia Neidhardt



Offensive / Toxic

Includes derogatory remarks or incites hatred or violence

Motivation

"Bei Vielen ist der Schädel gut mit Gehirn gefüllt... Nur der BIMAZ, der hat noch viel Platz" target: individual best secretary of the interior of all times

"Many people's skulls are well filled with brains... Only the BIMAZ still has plenty of room"

Need for country-specific toxicity detection

"27-year-old [Nationality]. Stopped reading there" target: group

Need for target-aware toxicity detection

/Not Offensive/ "f*ck. das fliegt uns jetzt um die ohren" vulgarity v

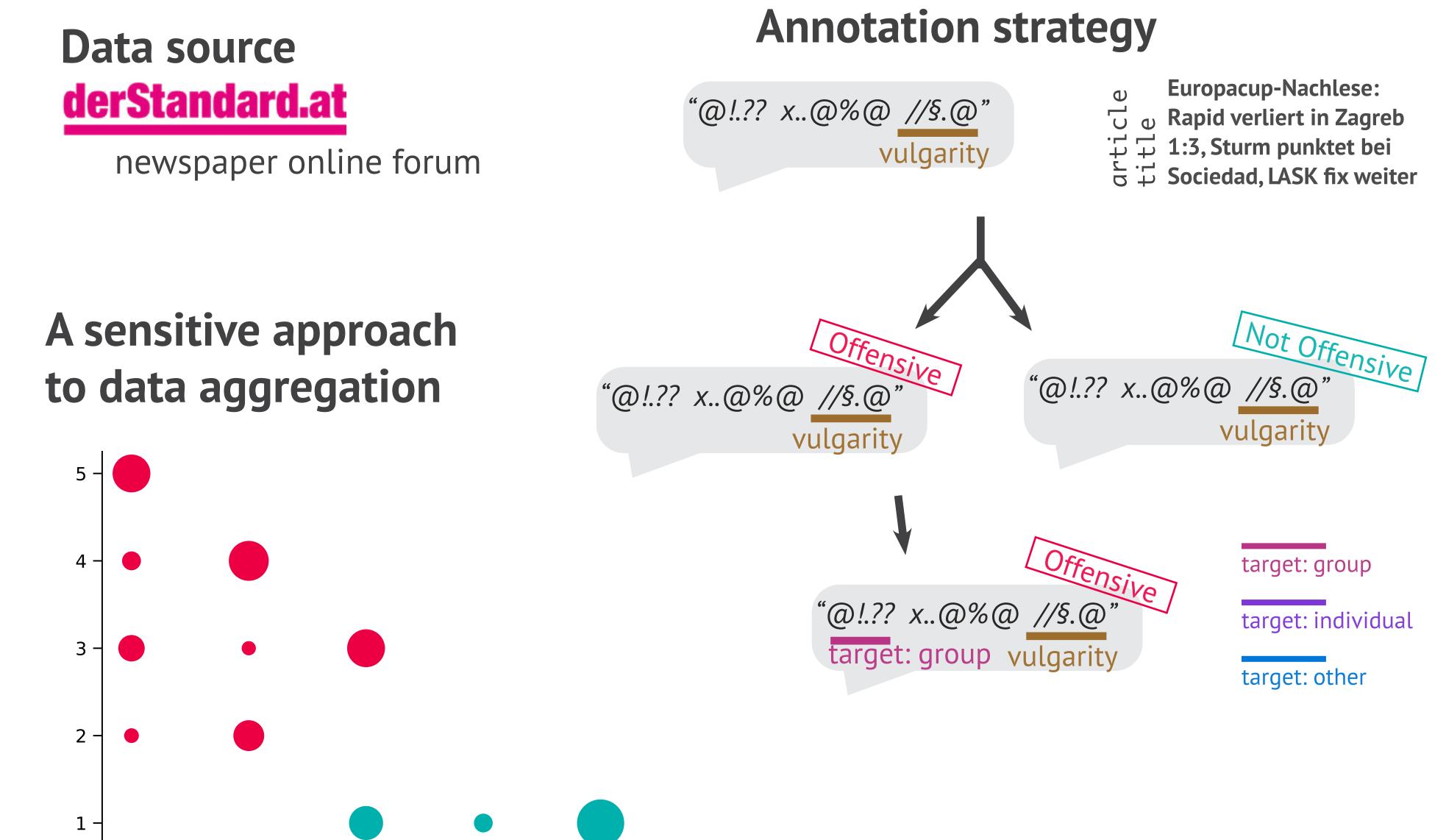
*F*ck. This is going to blow up in our faces."

Need for vulgarity-aware toxicity detection

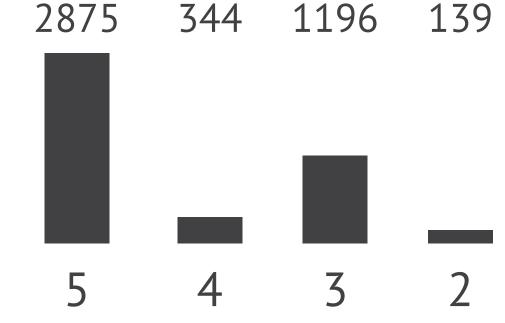
> "Geh bitte HOITS Z*M!!" vulgarity "Please, sh*t up!"

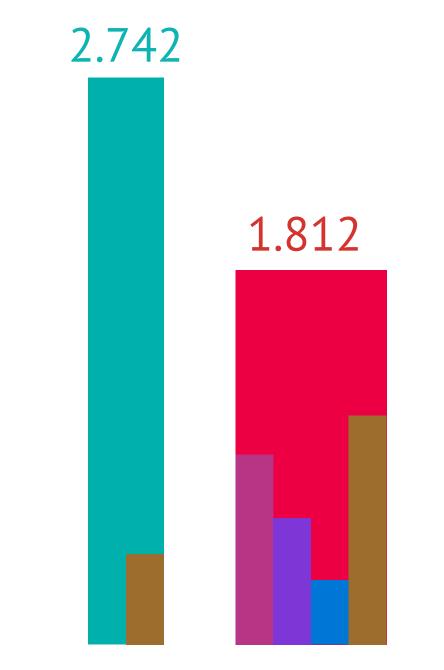
Need for toxicity detection aware of country-specific vulgarities

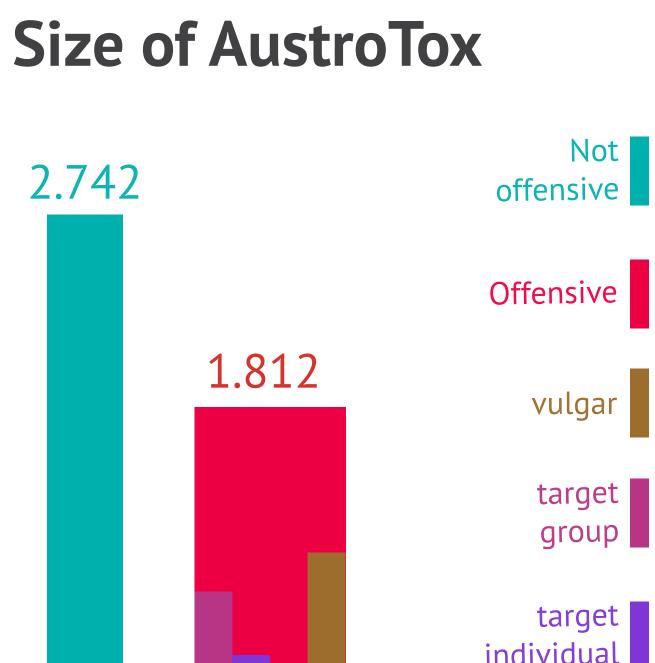
Dataset Creation











individual target other

Experiments Using AustroTox

System prompt for generative models

You receive a user comment from a newspaper article. Your task is to answer the followig questions about the comment:

- 1. Is the comment toxic? (1 = toxic, 0 = non-toxic)

Definition: ... 2. Who or what is the target of toxicity?... 3. Mark vulgarities with "Vulgarity".... Respond in JSON format with the following fields:

	F1 scores
# Params	Offensive

			# Params	Offensive	Vulgarity	Target	
fine-tuned	BERT en BERT de BERT db Gelectra GBERT Gelectra GBERT	# Shots	110M 110M 110M 110M 335M 337M	.64 .69 .71 .50 .72 .52 .73	.69 .69 .69 .69 .56	.16 .22 .23 .24 .23 .19 .21	
	LeoLM	0	7B	.61	-	-	
pel	Mistral	5 0 5	7.24B	.52 .30 .55	_	_	
prompted	Llama 3	0	8B	.67	-	-	
g	GPT 3.5	0	-	.59	.40	.17	
	GPT 4	5 0 5	_	.72 .70 .76	.43 .36 .41	.20 .20 .22	