## Experiments

## Baselines

- SVM with TF-IDF features
- LSTM
- Conditional Random Field (CRF) (WWW'17)
- Reddit comments
- News article model

## Experiments

## Performance

Approach	Accuracy		False Claims			True Claims			AUC
	Micro	Macro	Prec.	Rec.	F1	Prec.	Rec.	F1	
SVM	0.793	0.796	0.739	0.748	0.791	0.754	0.843	0.796	0.884
LSTM	0.735	0.726	0.690	0.734	0.762	0.829	0.558	0.667	0.835
CRF [9]	0.618	0.610	0.630	0.740	0.680	0.594	0.460	0.520	0.611
Reddit Doc2Vec	0.657	0.647	0.651	0.740	0.692	0.667	0.567	0.613	0.686
News Article CNN	0.802	0.798	0.777	0.873	0.822	0.838	0.724	0.777	0.885
Joint (News Article + Reddit)	0.826	0.825	0.837	0.895	0.866	0.814	0.817	0.812	0.909

- There is a performance gain by concatenating the two models, a reason for it being so small is that we do not have Reddit comments from all the articles either by there not existing or limitations of the Reddit API.
- If take away all the articles not containing Reddit comments, the performance of the joint model over the news article model increases by 2.5%.