Experiments
Dataset

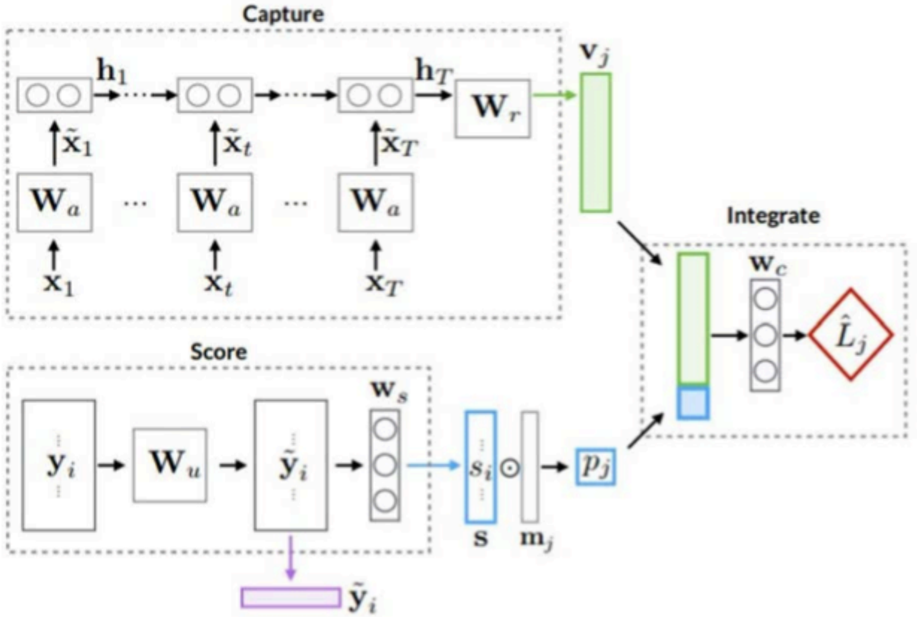
Fake	448	Publications / source	2.38	Cites / source	8.38
Real	606	Engagements / news	71.9	Friends / user	58.25
Sources	442	Neu. support / news	19.07	Deny / news	5.27
Users	54461	Neg. support / news	10.83	Report / news	36.73

- Twitter dataset
- For each article, collected its source, a list of engaged users, and their tweets if they were not already available in the previous dataset.
  - Also includes Twitter profile description and the list of Twitter profiles each user follows.
- Further crawled additional data about media sources, including the content of their *Homepage* and their *About us* page, together with their frequently cited sources on their *Homepage*.
- Label obtained from Snopes and Politifact

Experiments

Baselines

- **SVM** (content-only)
- **CSI** (Euclidean contextual)
  - Aggregate social engagements using LSTM
  - Models social context as a Euclidean object, not graph
- **GCN** (graph learning)
- **FANG** (proposed method)



CSI (Ruchansky et al., 2017)

- To verify the importance of modeling temporality by experimenting on two variants of CSI and FANG
  - CSI(-t), FANG(-t) without time in the engagement e's representation x_e