Methodology

Graph Construction from Social Context - News

PHOENIX A.Z. **(AP)** — For months now, rumors have circulated the Internet that individuals were being paid to protest at rallies held by presidential hopeful Donald Trump. Today a man from Trump's rally in Fountain Hills, Arizona back in March has come forward to say that he was paid to protest the event.

- Feature
 - TF-IDF vector + weight word-embedding
 - From news content
- Relations
 - Source-news publication
 - User-news stance: neutral support, negative support, deny, report

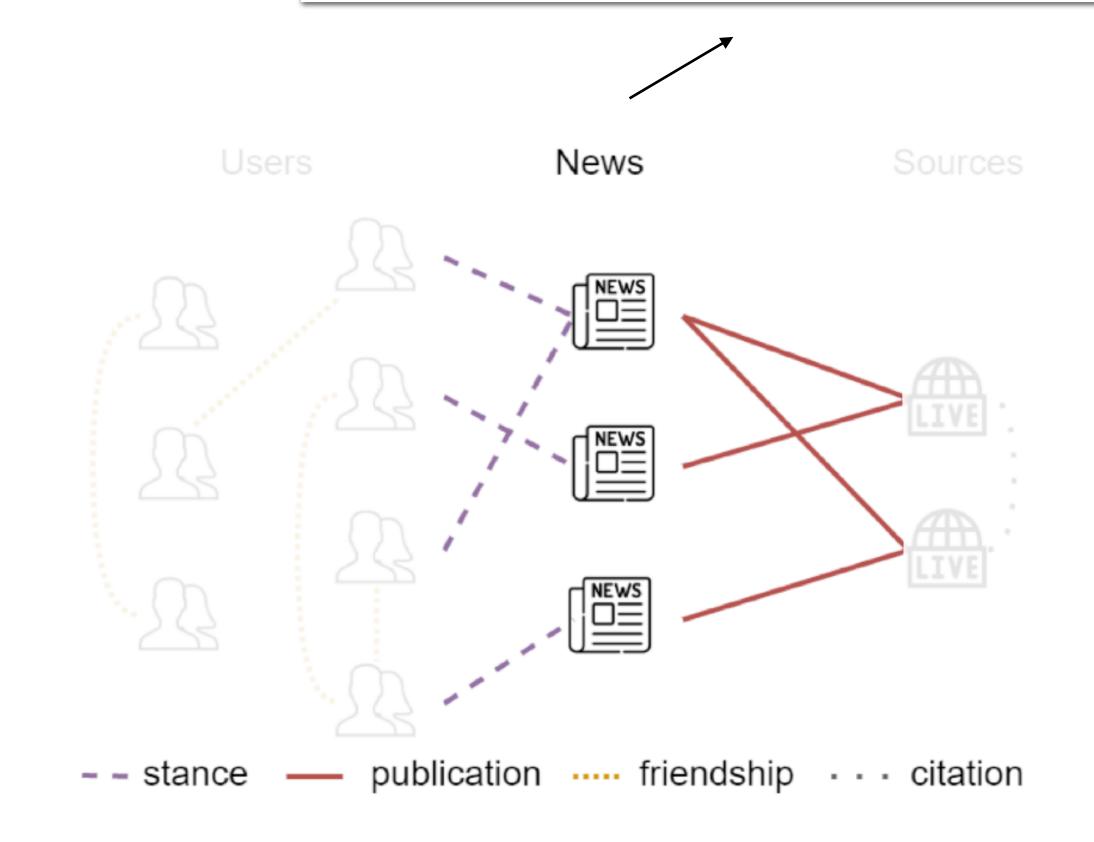


Figure 1: Graph representation of social context.

Methodology

Graph Construction from Social Context - Stance Detection

- Use user reply with respect to the title of a questionable news article.
- Classify a post as verbatim reporting of the news article if it match the title after clean process.
- Remaining post train a stance detector to classify the remaining post → support, deny
- In order to further classify support posts into neutral and with negative sentiment, we finetuned a similar architecture on the Yelp Review Polarity dataset to obtain a sentiment classifier.

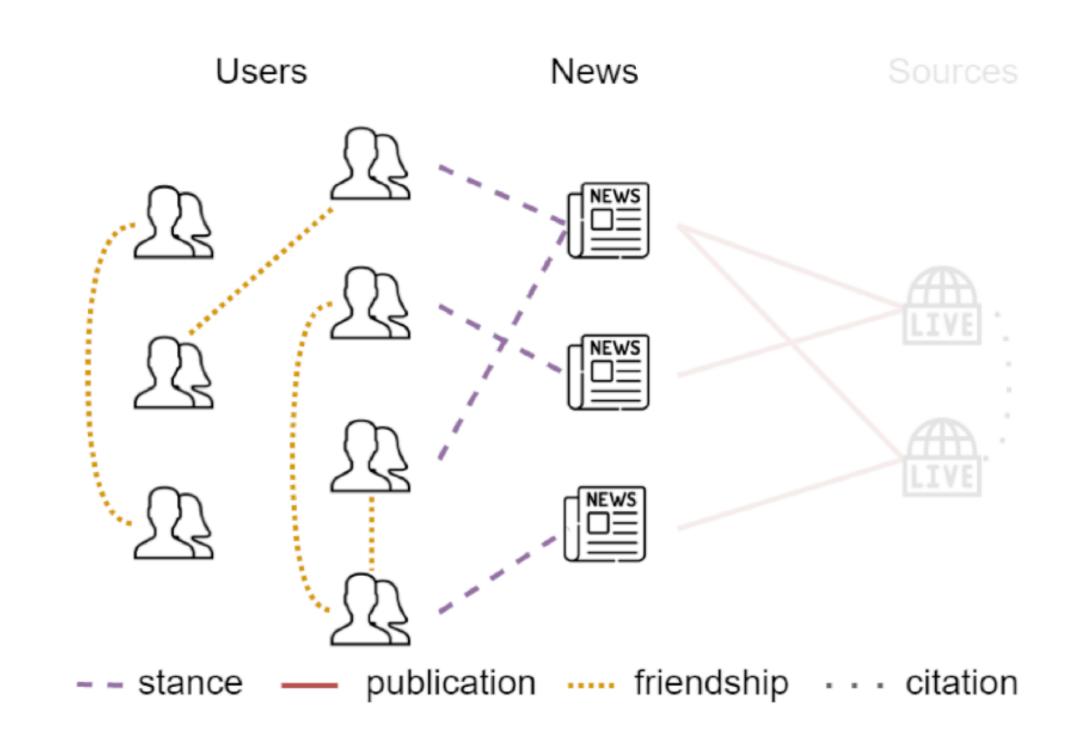


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