

Group-11 : SemEval19 - Rumor Detection

Introduction :

RumourEval: Determining rumour veracity and support for rumours. Here we focus on stance classification of tweets towards the truthfulness of rumours circulating in Twitter conversations in the context of breaking news. Each conversation is defined by a tweet that initiates the conversation and a set of nested replies to it that form a conversation thread.

The goal will be divided into following two subtask

Subtask 1 - addresses the challenge of rumour stance classification, which involves identifying the attitude of Twitter users towards the truthfulness of the rumour they are discussing. Stance classification is considered to be an important step towards rumour verification, therefore performing well in this task is expected to be useful in debunking false rumours. In this work **we classify a set of Twitter posts discussing rumours into either supporting, denying, questioning or commenting on the underlying rumours.**

They are described as

- **Support:** the author of the response supports the veracity of the rumour they are responding to.
- **Deny:** the author of the response denies the veracity of the rumour they are responding to.
- **Query:** the author of the response asks for additional evidence in relation to the veracity of the rumour they are responding to.
- **Comment:** the author of the response makes their own comment without a clear contribution to assessing the veracity of the rumour they are responding to.

Subtask 2 : (Verification) Verify it to classify the accuracy of the rumor as true, false or unverified.

Dataset Used :

Full English Twitter dataset.

https://figshare.com/articles/RumourEval_2019_data/8845580

Reference Reading :

- <https://github.com/Institute-Web-Science-and-Technologies/CLEARumor/blob/master/paper.pdf>
- <https://www.aclweb.org/anthology/S17-2083>

- <https://www.aclweb.org/anthology/S19-2147>
- https://competitions.codalab.org/competitions/19938#learn_the_details

Plan on doing and implementing & Milestones :

Data Preprocessing - Representation of tweet in the format that can be fed to model.

Subtask 1 - Neural networks based model is proposed to classify each post of thread as support, deny, question or comment. (Tentative 21-October)

Subtask 2 - output from first subtask along with other features are again fed into RNN based model that estimates source post as true, false or unverified. (Tentative 11- November)