Experiments

Effectiveness of different types features

Removed type	R-19	W-16	W-20
Emotion Category	0.193	0.679	0.686
Emotion Lexicon	0.239	0.715	0.745
Emotional Intensity	0.216	0.725	0.750
Sentiment Score	0.245	0.723	0.743
Other Auxiliary Features	0.307	0.653	0.722
Dual Emotion Features	0.337	0.728	0.759

- The macro F1 scores of Dual Emotion Features all decrease regardless of the removed type of emotion features.
- Thus, it reveals the necessity of using five types of emotion features jointly.

Experiments

Evaluation Questions

- EQ1: Are Dual Emotion Features more effective than baseline features when used alone for fake news detection? How effective are the different types of features in Dual Emotion Features?
- EQ2: Can Dual Emotion Features help improve the performance of text-based fake news detectors?
- EQ3: How robust do the fake news detection models with Dual Emotion Features in real-world scenarios?
- EQ4: How effective are the components of Dual Emotion Features, including the publisher emotion, social emotion, and emotion gap?