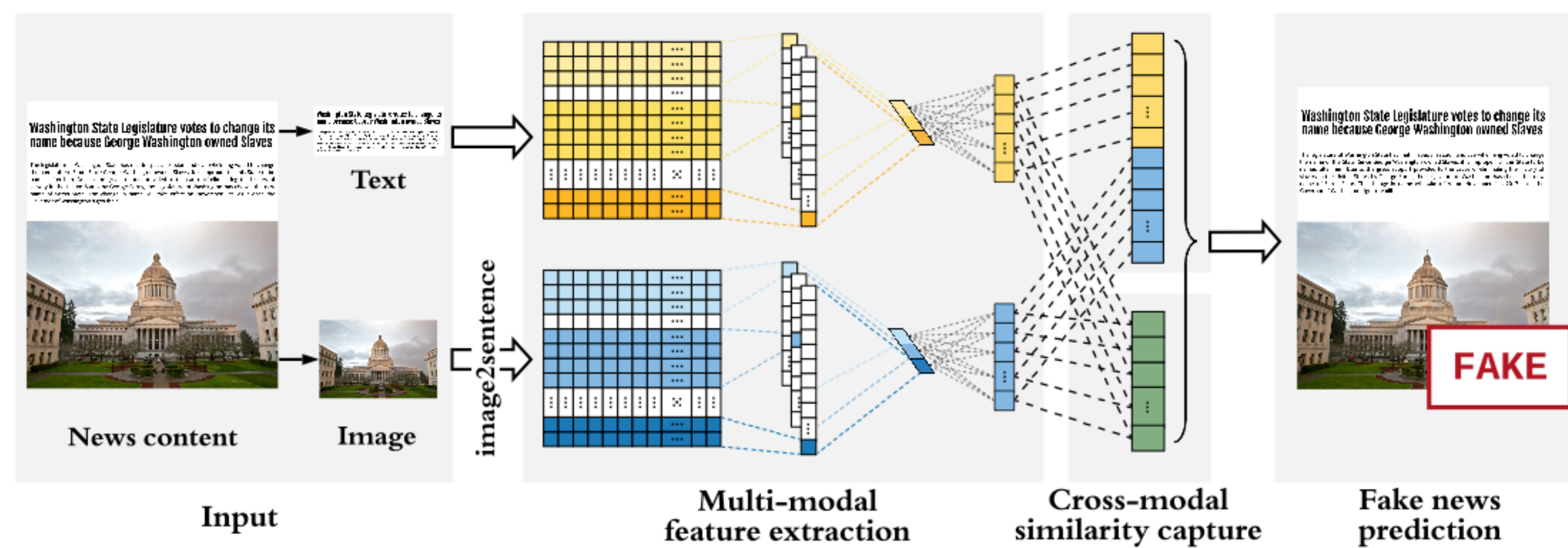


# Experiments

## Baselines



- Variants of the proposed SAFE method:
- **SAFE\T:** without using textual information
- **SAFE\V:** without using visual information
- **SAFE\S:** without capturing the relationship (similarity) between textual and visual features. In this case, features of each news are fused by concatenating them
- **SAFE\W:** only assessed the relationship between textual and visual information. In this case, the classifier is directly connected with the output of the cross-modal similarity extraction module.

# Experiments

## Performance Analysis

		LIWC <sup>†</sup>	VGG-19 <sup>‡</sup>	att-RNN <sup>‡</sup>	SAFE\T <sup>‡</sup>	SAFE\V <sup>†</sup>	SAFE\S <sup>‡</sup>	SAFE\W <sup>‡</sup>	SAFE <sup>‡</sup>
<b>Politi-Fact</b>	<b>Acc.</b>	0.822	0.649	0.769	0.674	0.721	0.796	0.738	<b>0.874</b>
	<b>Pre.</b>	0.785	0.668	0.735	0.680	0.740	0.826	0.752	<b>0.889</b>
	<b>Rec.</b>	0.846	0.787	<b>0.942</b>	0.873	0.831	0.801	0.844	0.903
	<b>F<sub>1</sub></b>	0.815	0.720	0.826	0.761	0.782	0.813	0.795	<b>0.896</b>
<b>Gossip-Cop</b>	<b>Acc.</b>	0.836	0.775	0.743	0.721	0.802	0.814	0.812	<b>0.838</b>
	<b>Pre.</b>	<b>0.878</b>	0.775	0.788	0.734	0.853	0.875	0.853	0.857
	<b>Rec.</b>	0.317	0.970	0.913	<b>0.974</b>	0.883	0.872	0.901	0.937
	<b>F<sub>1</sub></b>	0.466	0.862	0.846	0.837	0.868	0.874	0.876	<b>0.895</b>

†: Text-based methods    ‡: Image-based methods    ‡: Multi-modal methods

- SAFE can outperform all baselines based on the accuracy values and F1 scores for both datasets.