Experiments

Performance Comparison

Model	Contextual	Temporal	Graphical	AUC
Feature SVM				0.5525
CSI(-t) (without $time(e)$)	✓			0.6678
CSI	✓	✓		0.6911
GCN	✓		✓	0.7064
FANG(-t) (without $time(e)$)	✓		✓	0.7179
FANG	✓	✓	✓	**0.7518**

- Improvement from context modeling: 0.1153 for CSI(-t), 0.199 for FANG
- This demonstrates that considering social context is helpful for fake news detection.

Experiments

Performance Comparison

Model	Contextual	Temporal	Graphical	AUC
Feature SVM				0.5525
CSI(-t) (without $time(e)$)	✓			0.6678
CSI	✓	✓		0.6911
GCN	✓		✓	0.7064
FANG(-t) (without $time(e)$)	✓		✓	0.7179
FANG	✓	✓	✓	**0.7518**

- Improvement from temporality: 0.0233 for CSI, 0.0339 for FANG
- These results demonstrate the importance of modeling the temporality of news spreading.