## Experiments

## Performance Comparison

Model	Contextual	Temporal	Graphical	AUC
Feature SVM				0.5525
CSI(-t) (without $time(e)$ )	<b>✓</b>			0.6678
CSI	<b>✓</b>	<b>✓</b>		0.6911
GCN	<b>✓</b>		<b>✓</b>	0.7064
FANG(-t) (without $time(e)$	)) 🗸		<b>✓</b>	0.7179
FANG	<b>✓</b>	<b>✓</b>	<b>✓</b>	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.

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CSI(-t) (without $time(e)$ )	<b>✓</b>			0.6678
CSI	<b>✓</b>	<b>✓</b>		0.6911
GCN	<b>✓</b>		✓	0.7064
FANG(-t) (without $time(e)$	)		✓	0.7179
FANG	<b>✓</b>	<b>✓</b>	<b>✓</b>	0.7518

- Improvement from multi-relational graph: 0.0386 for GCN, 0.0501 for FANG(-t)
- This demonstrates the effectiveness of our social graph representation.