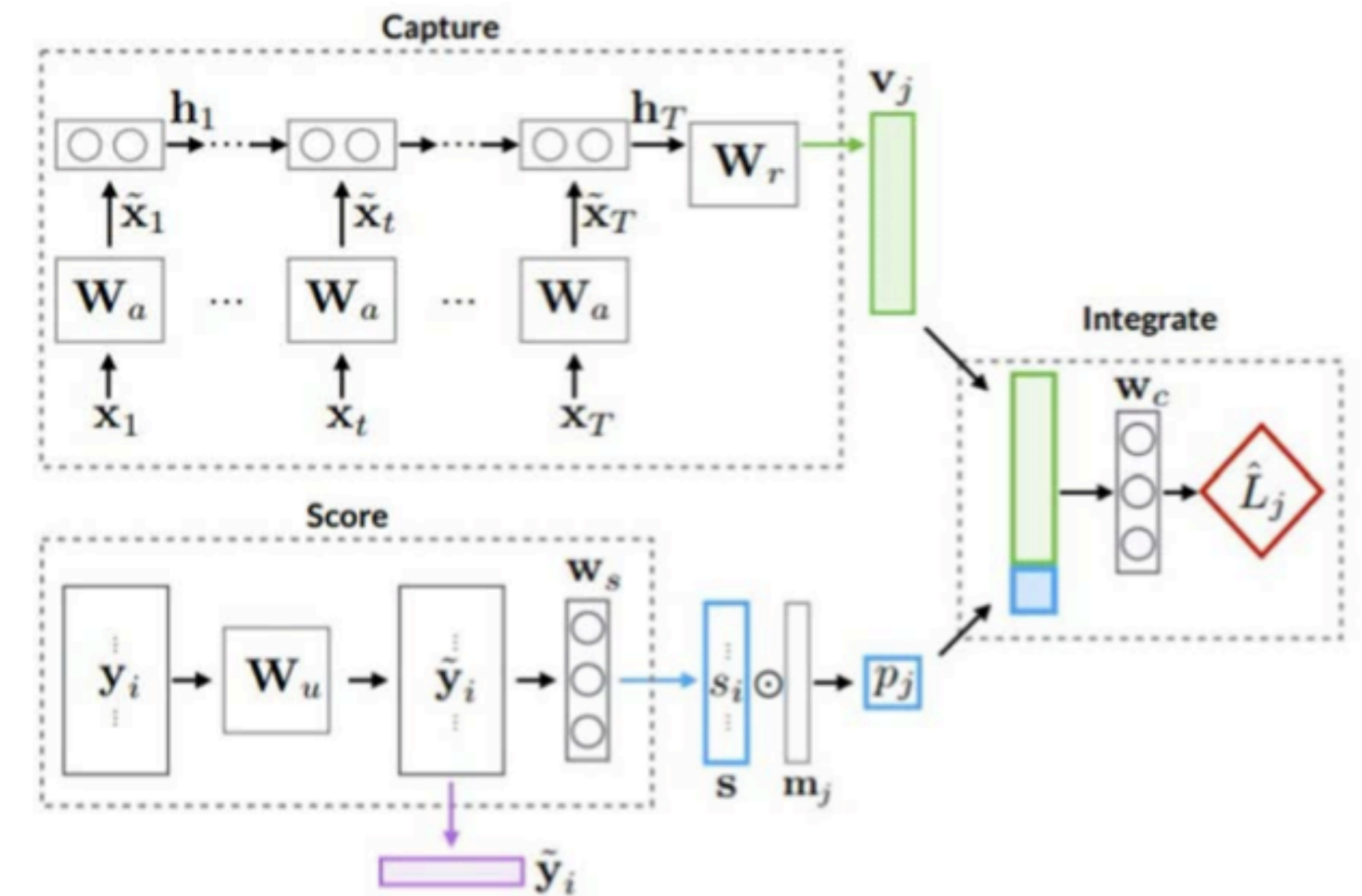# Experiments
Baselines

- SVM (content-only)

- CSI (Euclidean contextual)

  - Aggregate social engagements using LSTM

  - Models social context as a Euclidean object, not graph

- GCN (graph learning)

- FANG (proposed method)

- To verify the importance of modeling temporality by experimenting on two variants of CSI and FANG

  - CSI(-t), FANG(-t) without time in the engagement e's representation x_e

CSI (Ruchansky et al., 2017)

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.