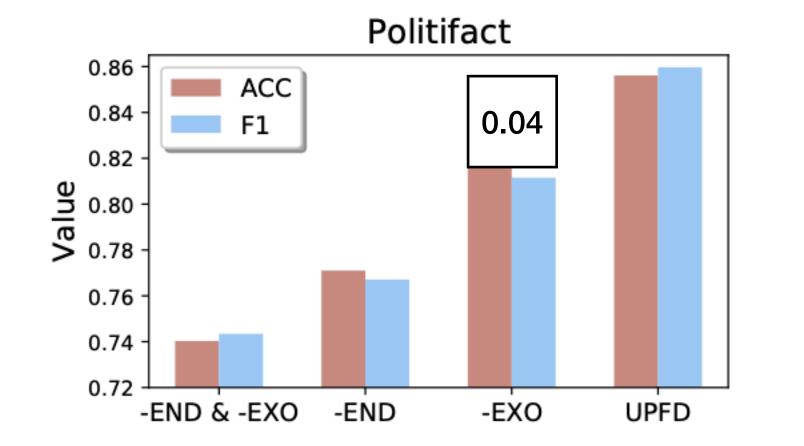
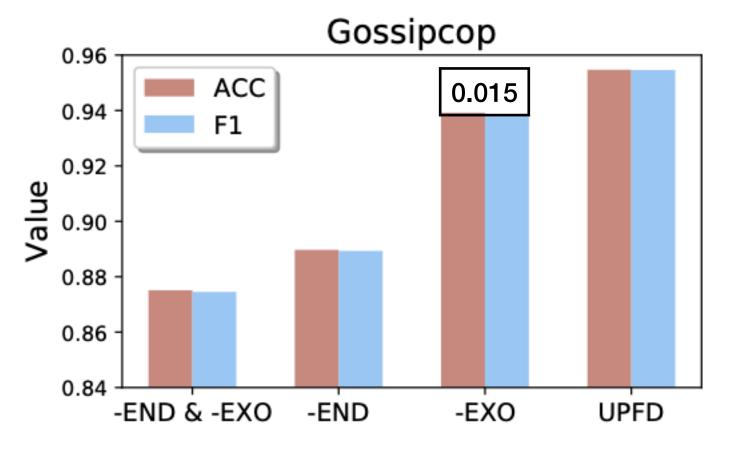
Experiments

RQ2: Ablation Study:

Framework Variants





- Find that removing either component from the UPFD will reduce its performance
- Indicates that exogenous information (i.e., news propagation graph) is more informative on Politifact since removing it results in a larger performance drop (0.04)
- Obvious that endogenous information contributes more to performance gain than exogenous information
- This observation further verifies the necessity of modeling user endogenous preferences.

	POL		GOS	
	ACC	F1	ACC	F1
-EXO	81.63	81.15	93.92	93.81
UPFD	<u>85.61</u>	<u>85.97</u>	<u>95.47</u>	<u>95.46</u>

Conclusion

- Argues that <u>user endogenous news consumption preference</u> plays a vital role in the fake news detection problem.
- Collect the <u>user historical posts to implicitly model the user preference</u> and leverage the <u>news propagation graph on social media</u> as the exogenous social context of users.
- UPFD is proposed to <u>fuse the endogenous and exogenous information</u> and predict the news' credibility on social media.
- Experimental results demonstrate the advantage of modeling the user endogenous preference