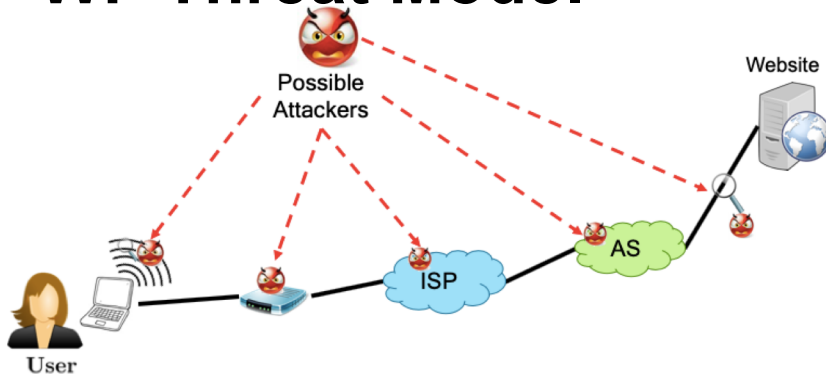


Website Fingerprinting (WF) Attacks and Defenses with Deep Learning

Matt Wright

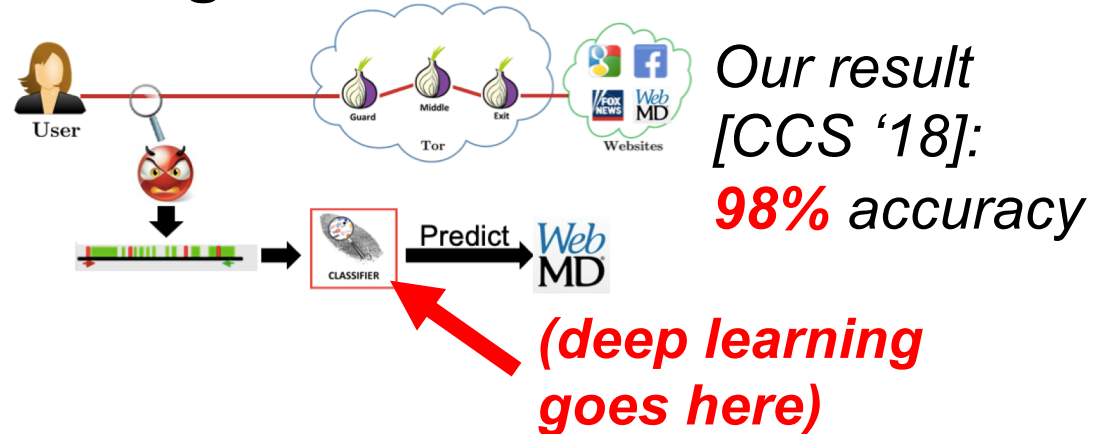
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WF Threat Model



Impact: Many types of attackers can use WF to harm privacy by watching users' online activity

WF against Tor



Novel Defenses

- Use *adversarial examples*
- Insights from visualizations of what deep learning “sees”

