

THE STATE OF

DEEPFAKES

LANDSCAPE, THREATS, AND IMPACT

www.deeptracelabs.com



The State of Deepfakes 16 Sep 2020 @ Sensemakers AMS

Giorgio Patrini CEO and Chief Scientist Sensity

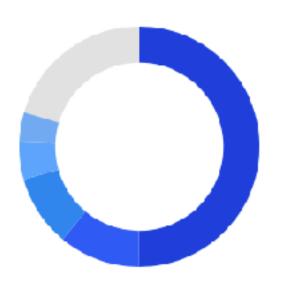
https://sensity.ai/reports/

<u>www.sensity.ai</u>

A new global phenomenon

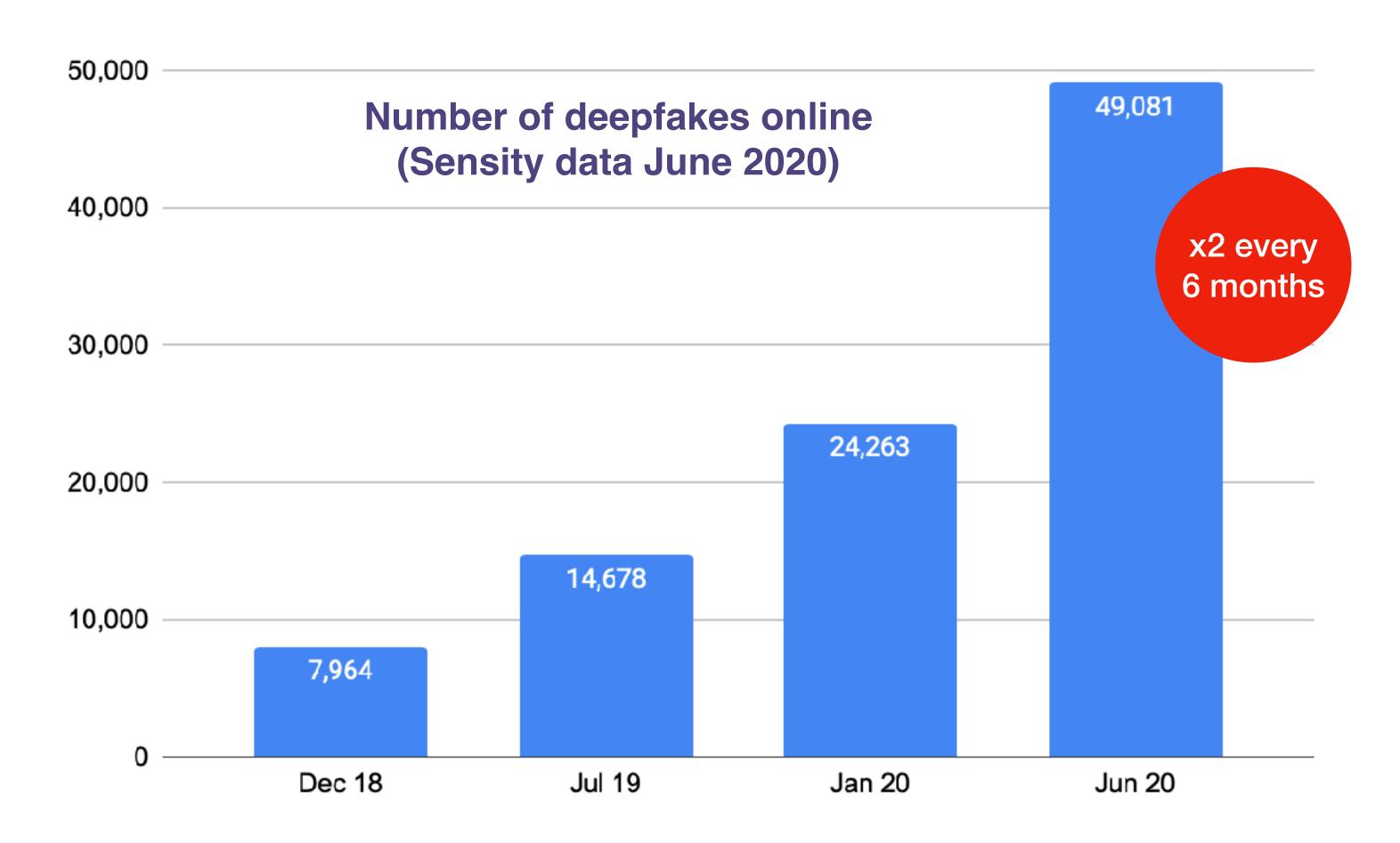


Most Targeted Countries



United States	50.1%
United Kingdom	10.9%
South Korea	9.6%
India	5.0%
Japan	4.0%
Other	20.4%

Deepfakes are in exponential growth

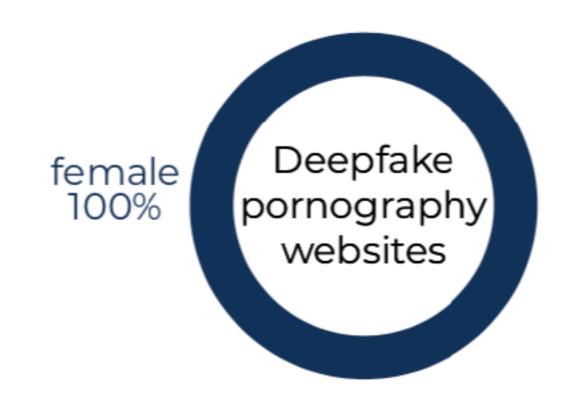


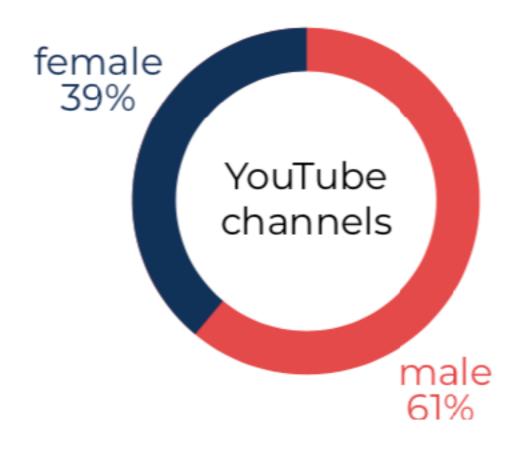


Large scale of reputation attacks - via fake adult content

Pornographic vs. non-pornographic video content









Targeted attacks (among many)



Nov 2018: Indian journalist publicly shamed (India Today/NYT, read more)



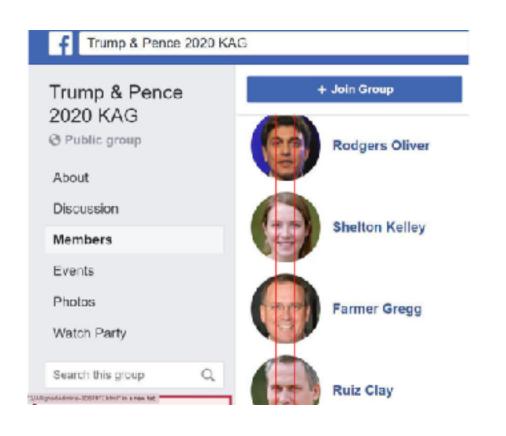
Jun 2019:
Foreign espionage to the US via social media (AP, read more)



Jun 2019: Malaysia minister scandal (The Star, read more)



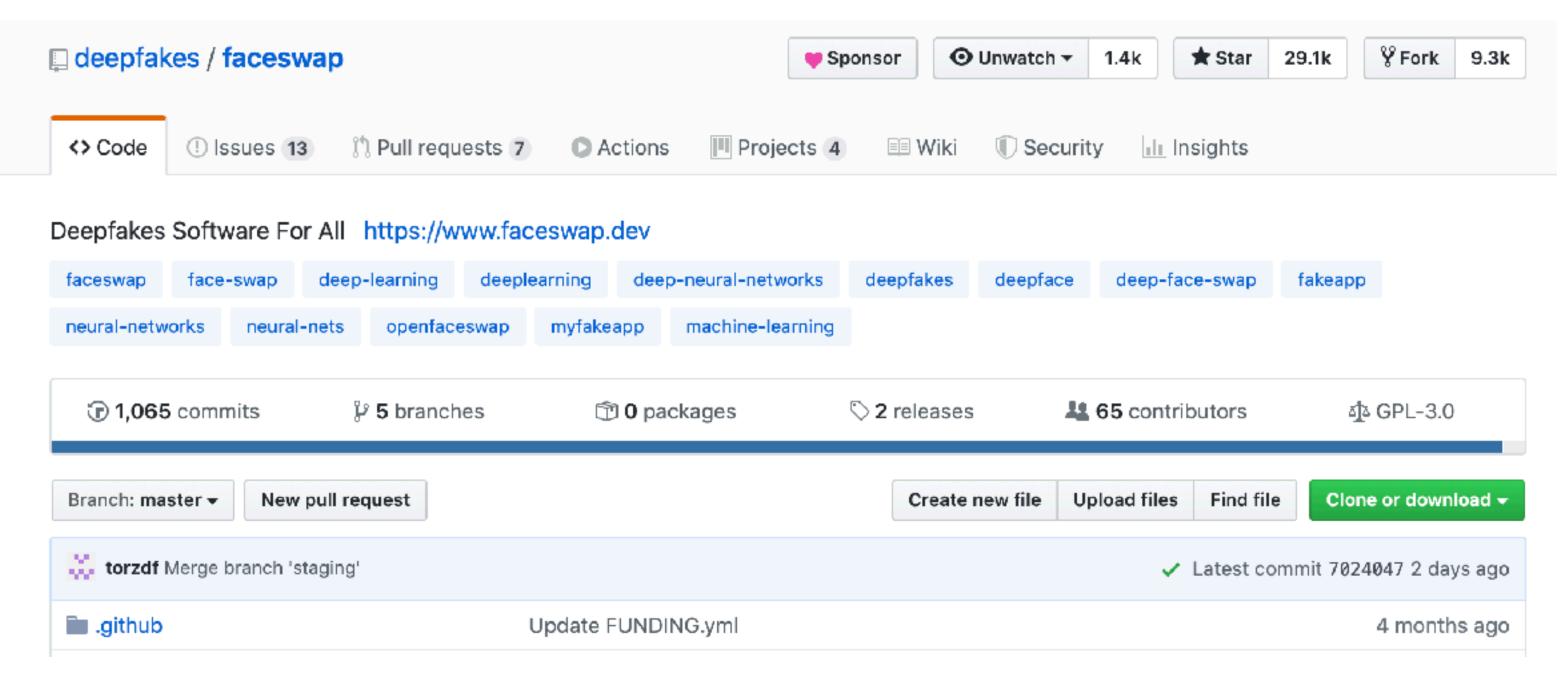
Jan 2019: National security of Gabon (MotherJones, read more)

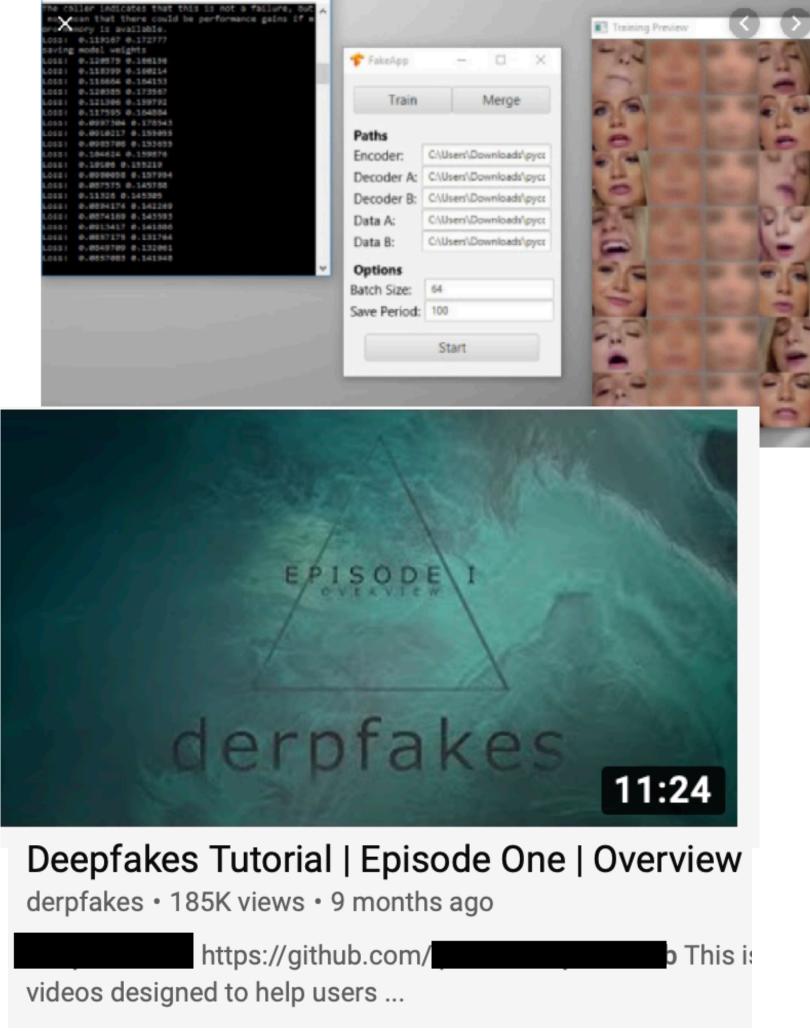


Dec 2019: Fake profile networks on FB

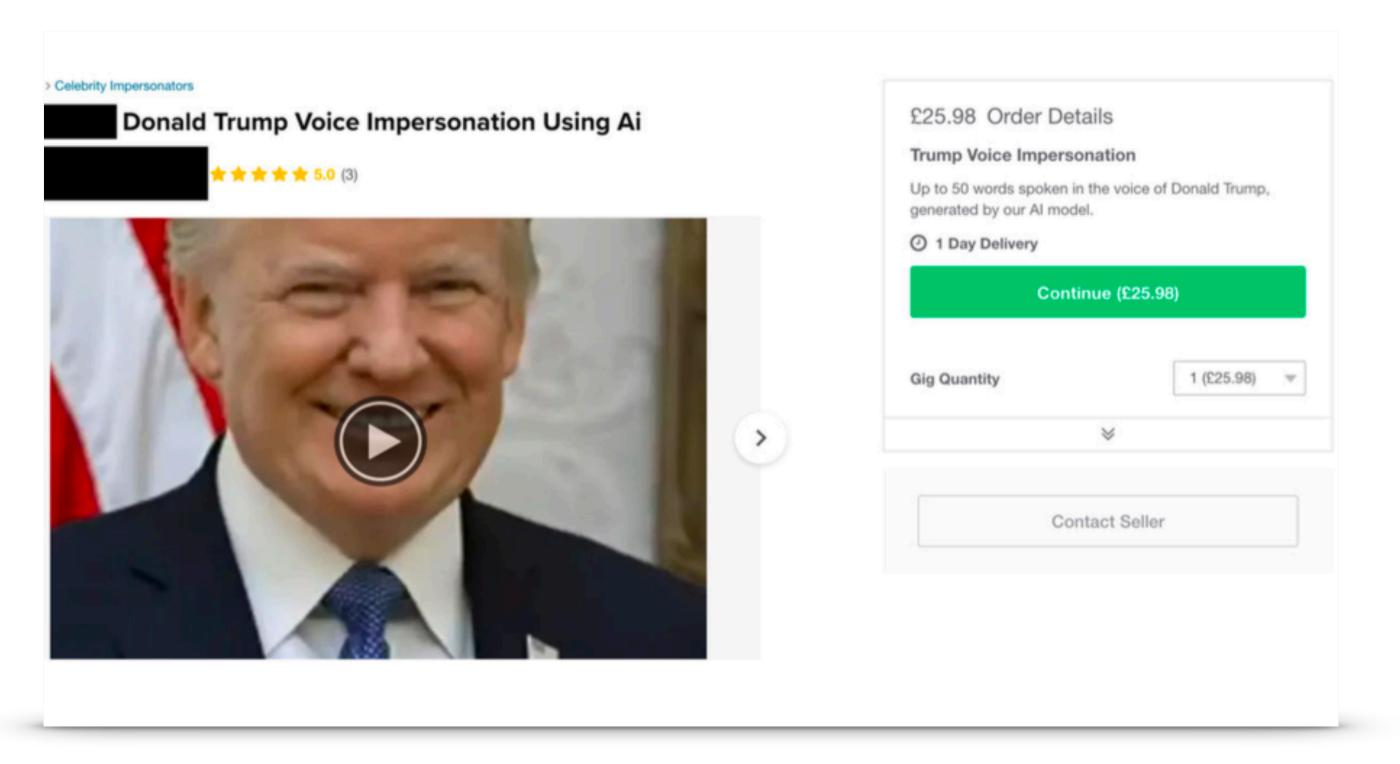


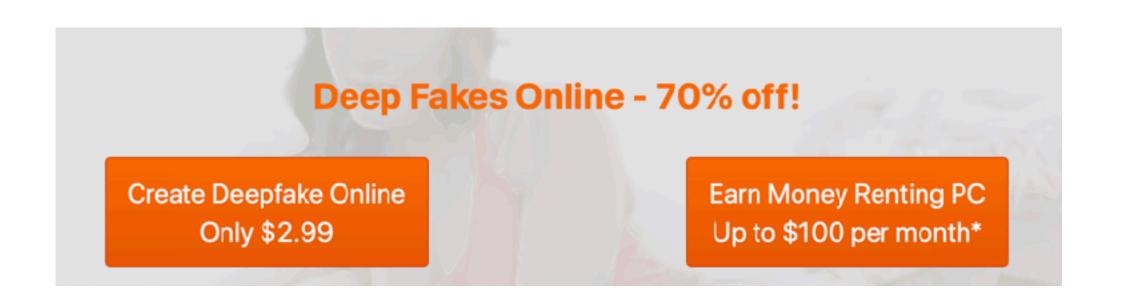
Open source, GUIs, tutorials

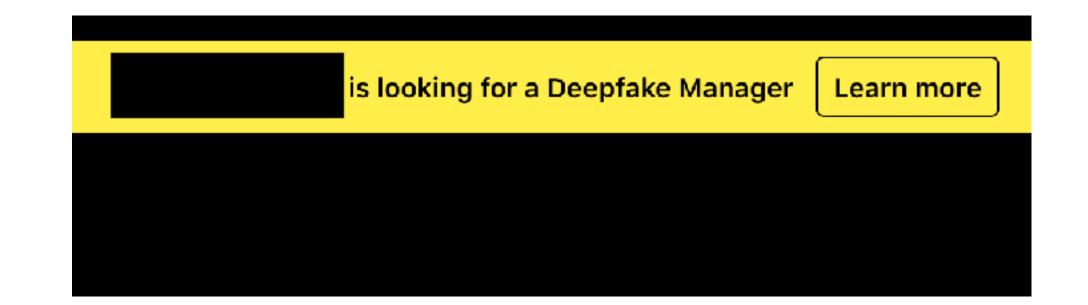




Deepfakes as-a-service & marketplaces





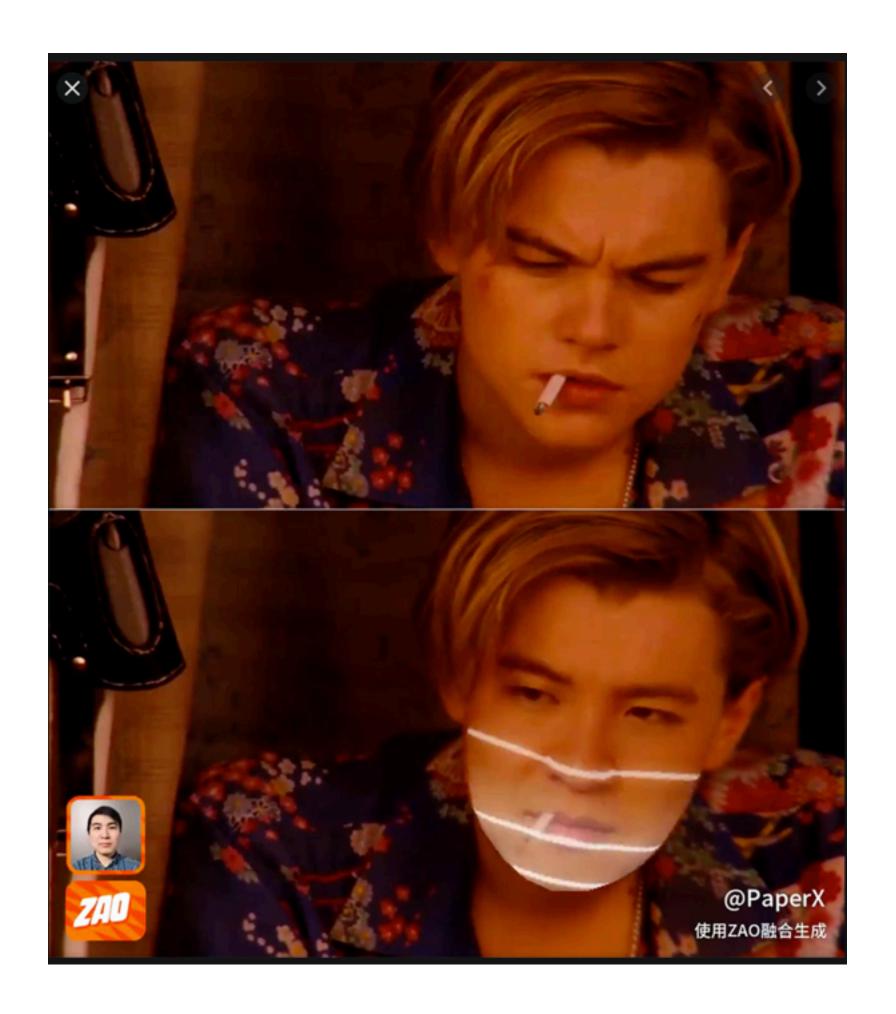


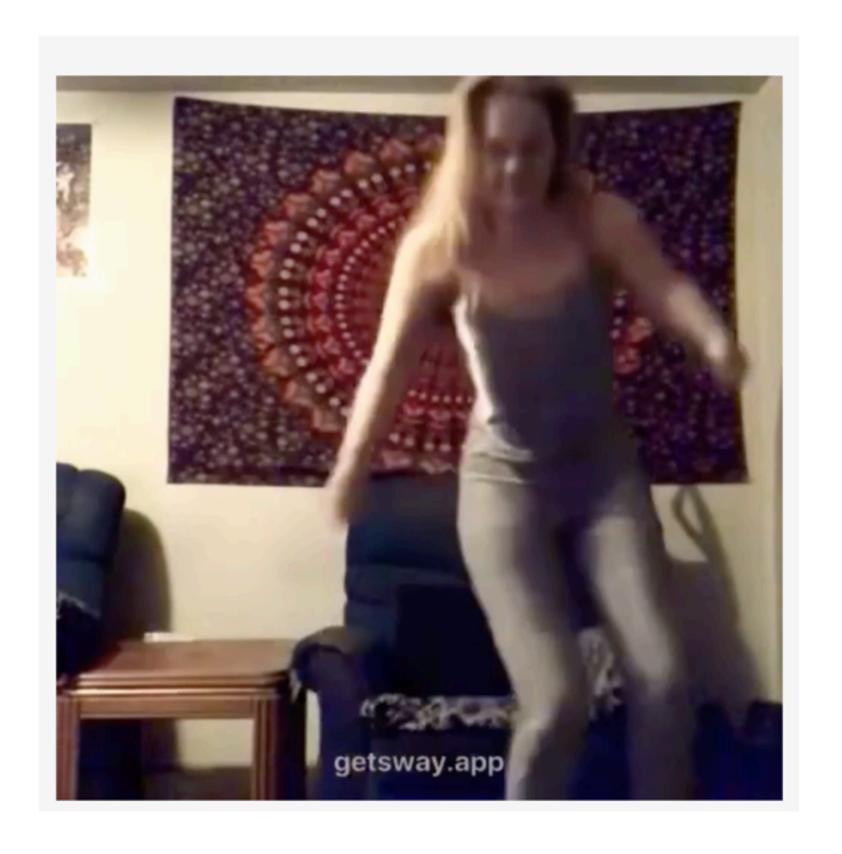


2020: the rise of consumer apps

Forbes

Snapchat and TikTok Embrace 'Deepfake' Video Technology Even As Facebook Shuns It









Online threat intelligence





Deepfake detection



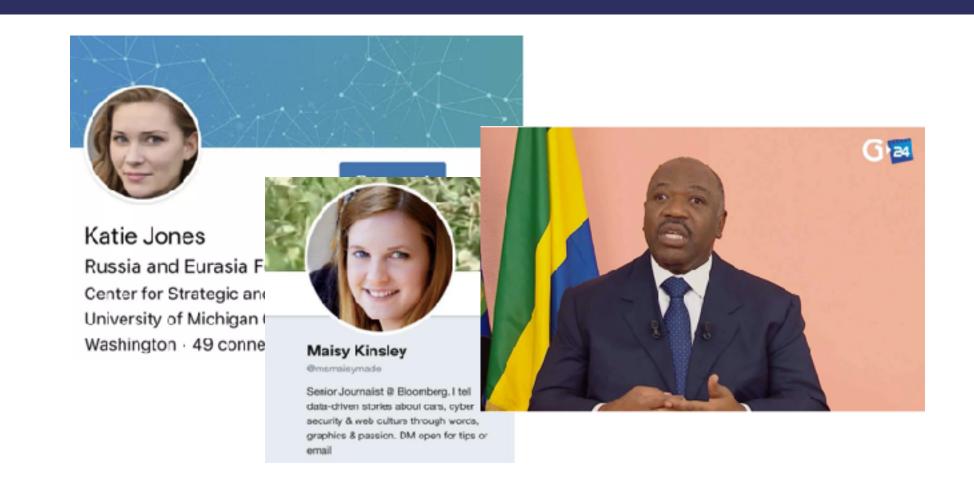
Deepfake detection



Send profile pics or videos by URL

Al detection via API

Report



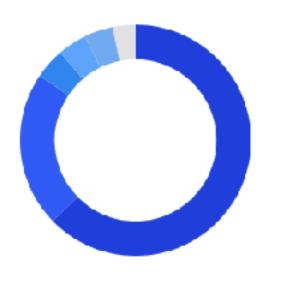
- Detection: which face is real/ manipulated/ synthesised
- Confidence scores
- Attribution: which software created it



We monitor the appearance of public figures on video online

- 7+ social and video platforms
- 450+ borderline forums and adult websites
- 60k+ fake videos collected
- Daily client alerts

Most Targeted Sectors



Entertainment	62.7%
Fashion	21.7%
Sport	4.3%
Business	4.1%
Politics	4.0%
Other	3.2%

Sensity data (Jun 2020)

Spotting deepfakes isn't as easy as you might think

