DEEP FAKES

Ryan Edelstein | Evan Bedser | Minsu Park



ABOUT DEEP FAKES

- What is it?
 - Deep Fake is a portmanteau of Deep Learning and Fake, a term coined by a Reddit user of the same name, who released doctored videos of celebrities
 - Synthesizing human images, specifically videos, using Artificial Intelligence
- How does it work?
 - Train a learning algorithm to warp and distort an image then check if the resulting expression was correct by comparing it to the next frame.
- What are the Recent Controversies?
 - Deep fakes used as Revenge Porn and the ownership of publicly available videos

THE STAKEHOLDERS

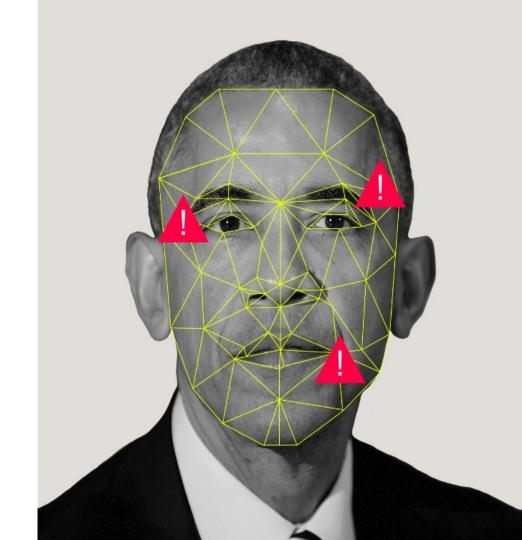
STAKEHOLDERS

- Politicians
- Celebrities
- General Public
- Media Companies

THE IMPACTS

IMPACT #1

Crafting public images
 of politicians unbeknownst
 to the public that it is
 false



IMPACT #2

 Unintended, unseemly generation of celebrity images by unauthorized parties



IMPACT #3

 Creative media for humor and self entertainment



ADVANTAGES

ADVANTAGES

- Used for improving film, video games, and entertainment.
- Currently, deepfakes can be detected algorithmically relatively easily
- Can be covered under libel/defamation

DISADVANTAGES

DISADVANTAGES

- Used in falsifying video address of politicians and celebrities without their consent
- Muddles the available information, creating more steps to verify the authenticity of any video
- It can cause irreversible damage, even after the authenticity is verified
- For less serious uses, such as in memes, it is tough to draw the line between right to be forgotten and fair use



CODE OF ETHICS

"Every time a new technology appears, we need to question ourselves on the impact it will have on us and on the people around us. We cannot rely on governments and laws for guidance, as they are notoriously ineffective and inefficient at keeping up with the pace of progress." - Alan Zucconi

"Post any Content that contains falsehoods or misrepresentations that could damage the Website or any third party; Post any Content that is obscene, illegal, unlawful, defamatory, libelous, harassing, hateful, racially or ethnically offensive, or encourages conduct that would be considered a criminal offense, give rise to civil liability, violate any law, or is otherwise inappropriate;" - PornHub ToS



STANCES

It should be banned

The creation and spread of deep fakes should not be allowed at all.

It should be allowed

Deep fakes are already regulated under existing laws and are not inherently wrong.

WORKS CITED

https://github.com/deepfakes
/faceswap

https://www.kdnuggets.com/20
18/03/exploring-deepfakes.ht
ml

https://www.alanzucconi.com/
2018/03/14/the-ethics-of-dee
pfakes/

www.pornhub.com

https://www.vox.com/2018/4/1 8/17252410/jordan-peele-obam a-deepfake-buzzfeed https://papers.ssrn.com/sol3
/papers.cfm?abstract_id=3213
954

http://fortune.com/2018/09/1
1/deep-fakes-obama-video/

https://medium.com/@jonathan
_hui/how-deep-learning-fakes
_videos-deepfakes-and-how-to
_detect-it-c0b50fbf7cb9