## Week 1: Summer Internship

24 May 2021- 30 May 2021

#### 24 May - 25 May

First official meeting after the commencement of internship (24 May).

Discussed major project ideas and overview of the overall workflow.

Picked up the "Deep Fake Analysis and Detection" as the topic of interest (25 May).

Read about the topic and got familiar with the terms and tools.

Also listed down some of the popular image search engines and other deep fake detection tools.

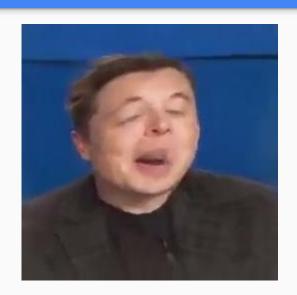
#### 26 May - 28 May

Setting up of the machine for generation of deepfakes along with exploring the tools available (26 May).

Got into learning how deep fakes are made and tried to make some deep fake videos (27 May).

Created some more deep fake images and listed some more advanced level deep fake detection tools and search engines.

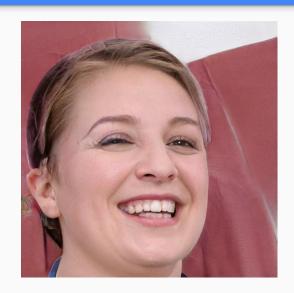
### Deep fake images and videos



Deep fake of Elon Musk singing Memories



Easy to detect deep fake of Donald Trump and Elon Musk



Advanced deep fake. Source: kaggle.com

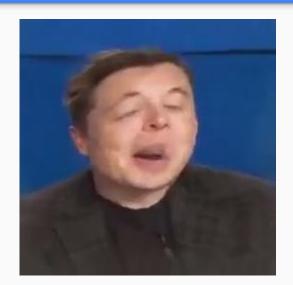
### 29 May-30 May

Tested the search engines for images and videos.

Tested corresponding to basic and advanced deep fake images.

Got familiar with google collab for training the model as local machine would take a lot more time.

## Deep fake images and videos



Tested at: https://deepware.ai/





Name:

result.mp4

ĺ

288.9 KB

User

2021-05-28 17:16:35 UTC 6 seconds ago New Scan

Source

#### DETAILS

Deepware aims to give an opinion about the scanned video and is not responsible for the result. As Deepware Scanner is still in beta, the results should not be treated as an absolute truth or evidence.



#### Model Results

Deepware: NO DEEPFAKE DETECTED(45%)

Seferbekov: NO DEEPFAKE DETECTED(36%)
Ensemble: NO DEEPFAKE DETECTED(38%)

#### Video

Codec:

Duration: 11 sec Resolution: 256 x 2

Frame Rate: 23.98 fps

#### Audio

Duration: Channel:

Sample Rate: 44 kmz

Codec:

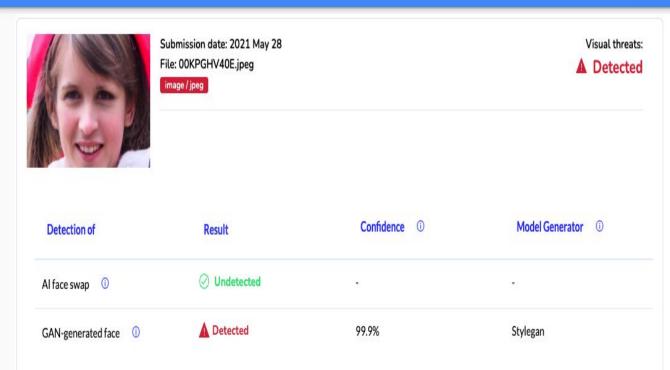
aac

11 sec

stereo

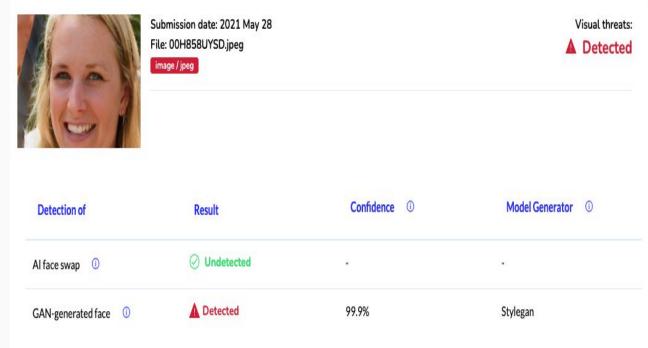


Tested at: https://sensity.ai/



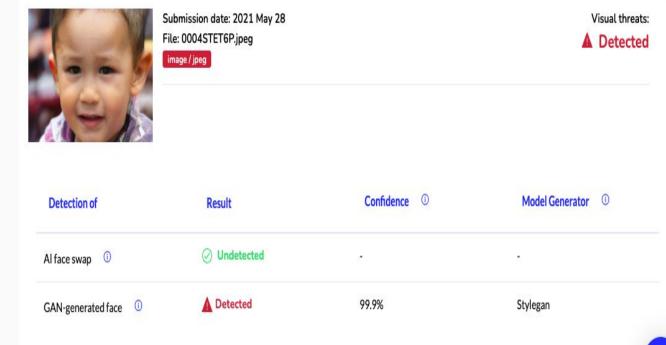


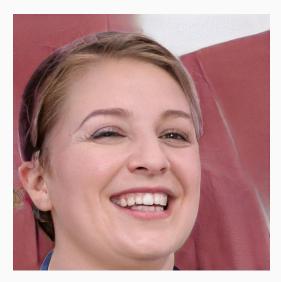
Tested at: https://sensity.ai/





Tested at: https://sensity.ai/





Tested at: https://sensity.ai/





Tested at: https://images.google.com/



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Tested at: https://pimeyes.com/en

