

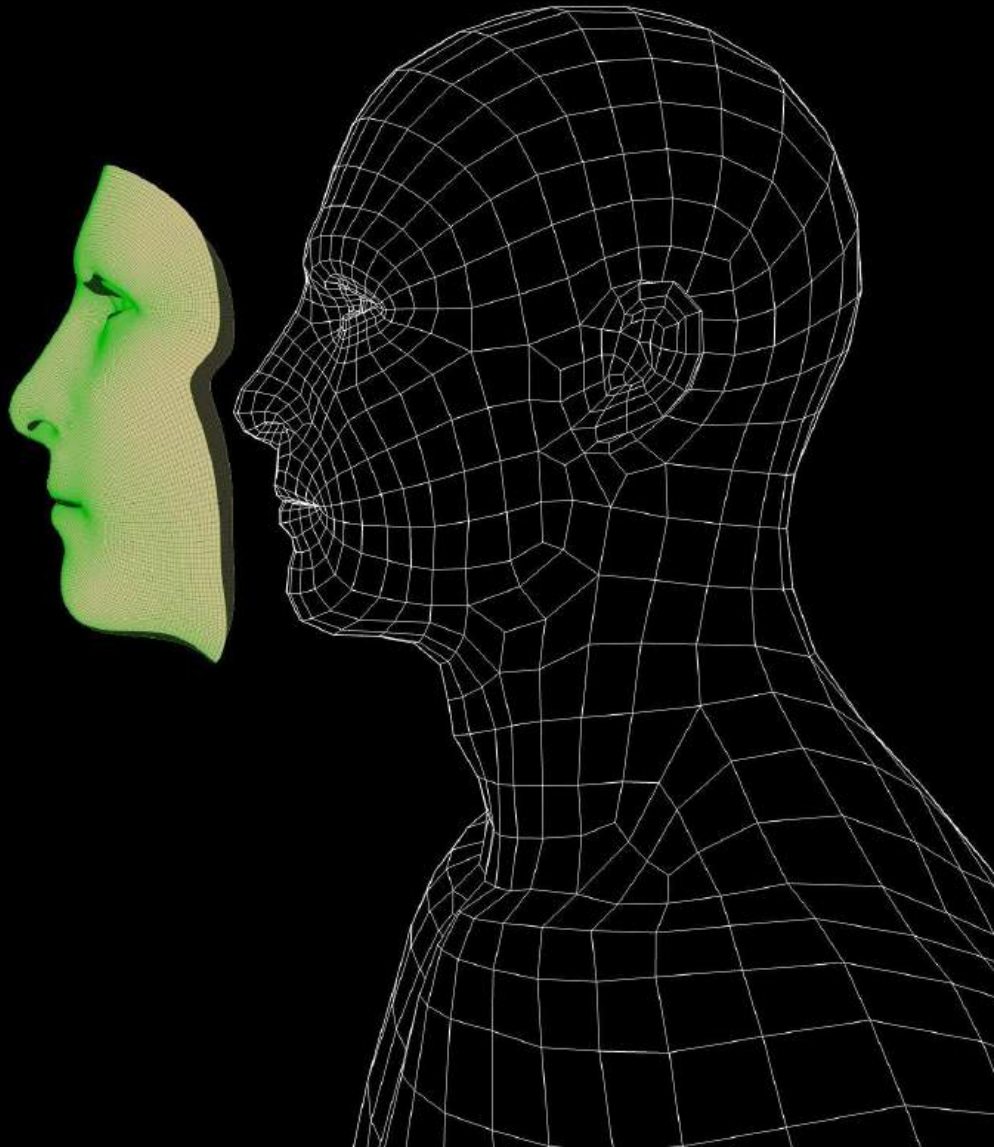
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# PROJECT DEEP-FAKE

# MEET THE TEAM

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# INTRODUCTION

Deep-fakes are computer-generated materials made with advanced AI. They can spread false information and manipulate public opinion. Deep-fake tech creates realistic replicas using a computer and the internet. But, it has harmful effects on society. Groups are raising awareness and advocating for regulations.



## HOW DEEP-FAKES WORK?

Deep-fakes use machine learning to copy a person's face or voice by studying their patterns and movements. The algorithm analyzes a large dataset of images or recordings to create new content.

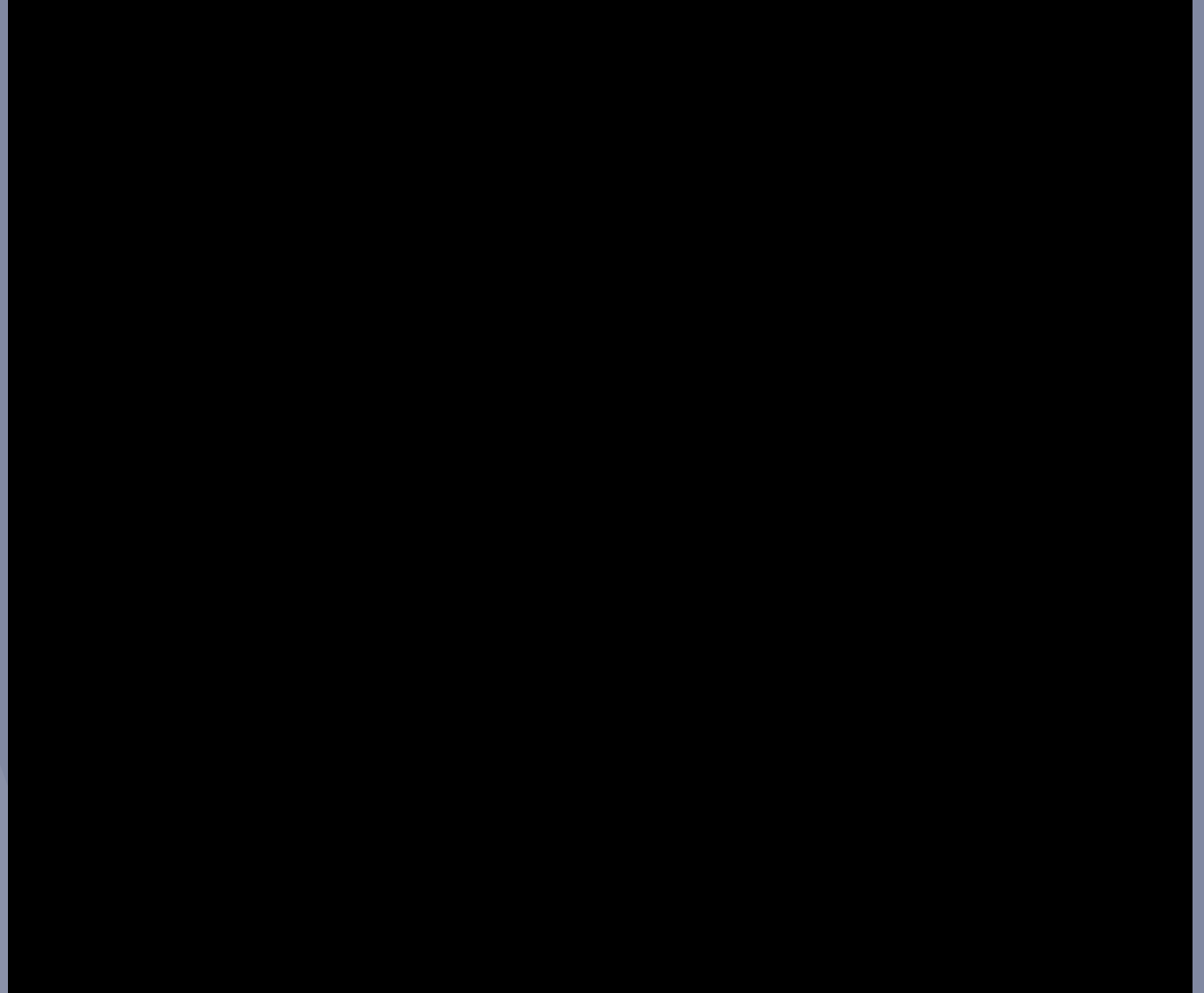
Deep-fakes are hard to detect because they capture the target's mannerisms and expressions, making them highly convincing and difficult to analyze using traditional methods.



# THE RISKS OF DEEP-FAKES

Deep-fakes carry serious risks such as spreading false information, manipulating opinions and committing fraud. They can even be used to fabricate damaging videos of politicians, affecting their reputation and influencing election results.

The most obvious is that deepfake technology allows the creation of convincing videos that can be used for political manipulation. This has, in fact, been the most widely publicized use of the tech to date, with deepfakes of Barack Obama

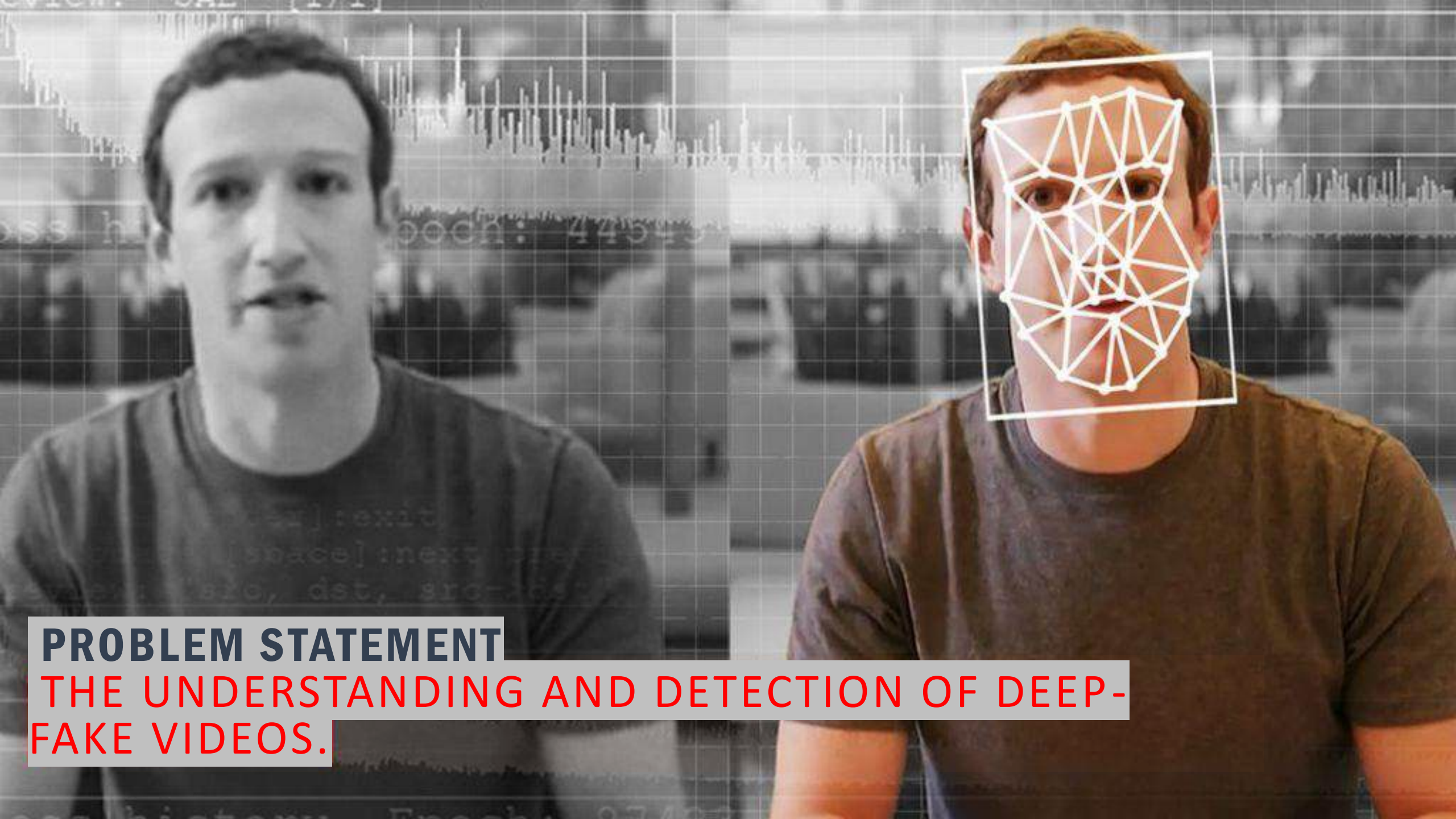


# SURVEY ON DEEPPFAKE VIDEOS



Source: Sensity





## PROBLEM STATEMENT

THE UNDERSTANDING AND DETECTION OF DEEP-FAKE VIDEOS.



# PROBLEM

- DEEP-FAKE AI IS A TYPE OF ARTIFICIAL INTELLIGENCE USED TO CREATE CONVINCING IMAGES, AUDIO AND VIDEO HOAXES.
- DEEP FAKE VIDEOS ARE THE FAKE VIDEOS GENERATED FROM REAL VIDEOS, EITHER CLONED OR CONVERTED INTO DIFFERENT FORMS TO CREATE MISLEADING INFORMATION AND CIRCULATE IN THE WORLD.
- DEEP FAKE VIDEOS CREATE AND SPREAD WRONG INFORMATION IN MANY CASES WHICH LEADS TO MISUNDERSTANDING AND DISBELIEF AMONG THE PEOPLE.
- SOME OF THESE FAKE VIDEOS ARE OF FAMOUS PERSONALITIES, POLITICIANS ETC DELIVERING A MESSAGE THROUGH THE VIDEOS THAT ISN'T REAL AND IS SCRIPTED USING DEEP FAKE AI TECHNOLOGY.

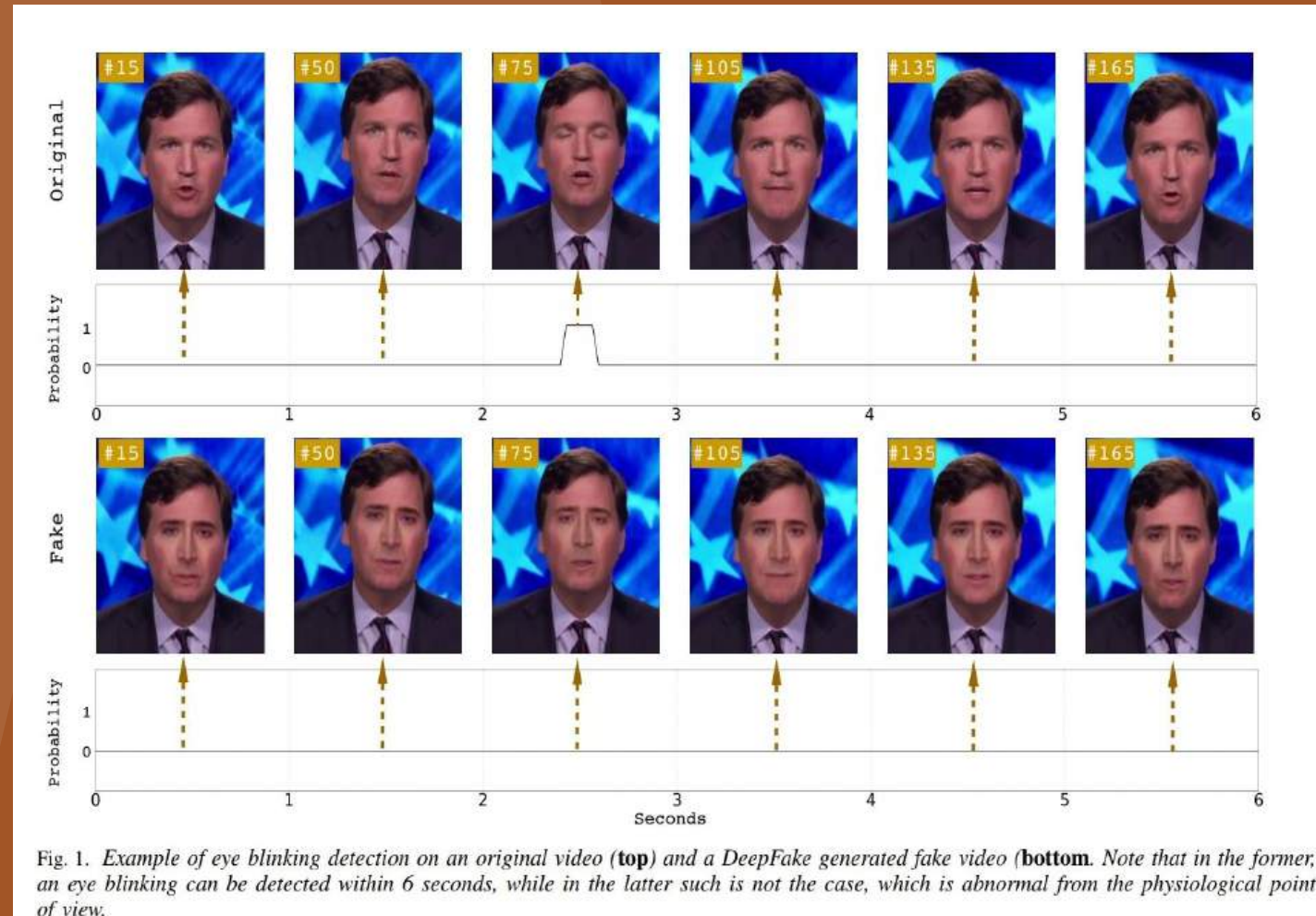
SOLUTION ->



# SOLUTION

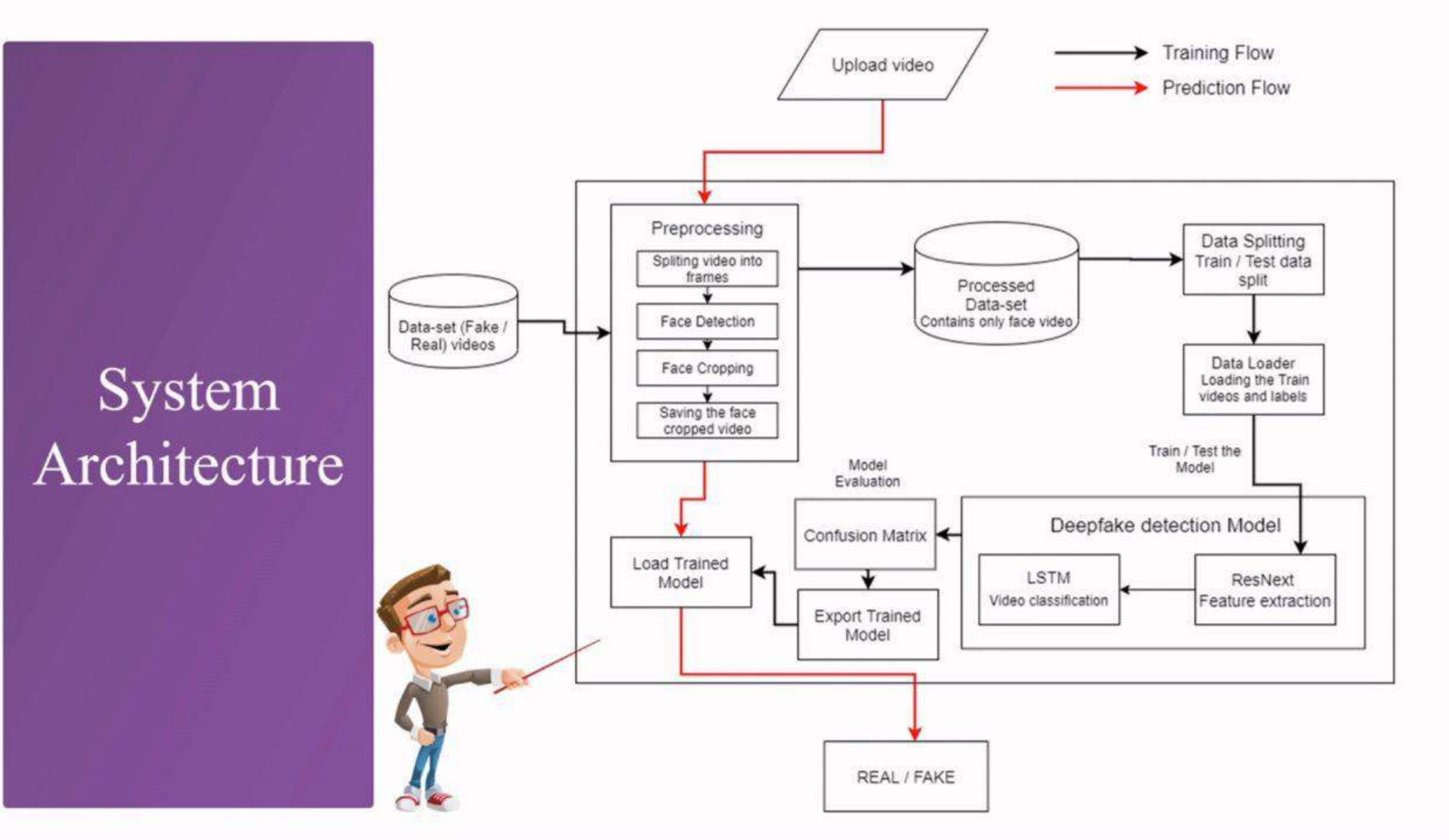
There have generally been two approaches suggested to solving the problems created by deepfakes: use tech to detect fake videos, or improve media literacy.

Researchers at the University at Albany also received funding from DARPA to study deepfakes. This team found that analyzing the blinks in videos could be one way to detect a deepfake from an unaltered video, simply because there are not that many photographs of celebrities blinking.





USE CASE DIAGRAM :-

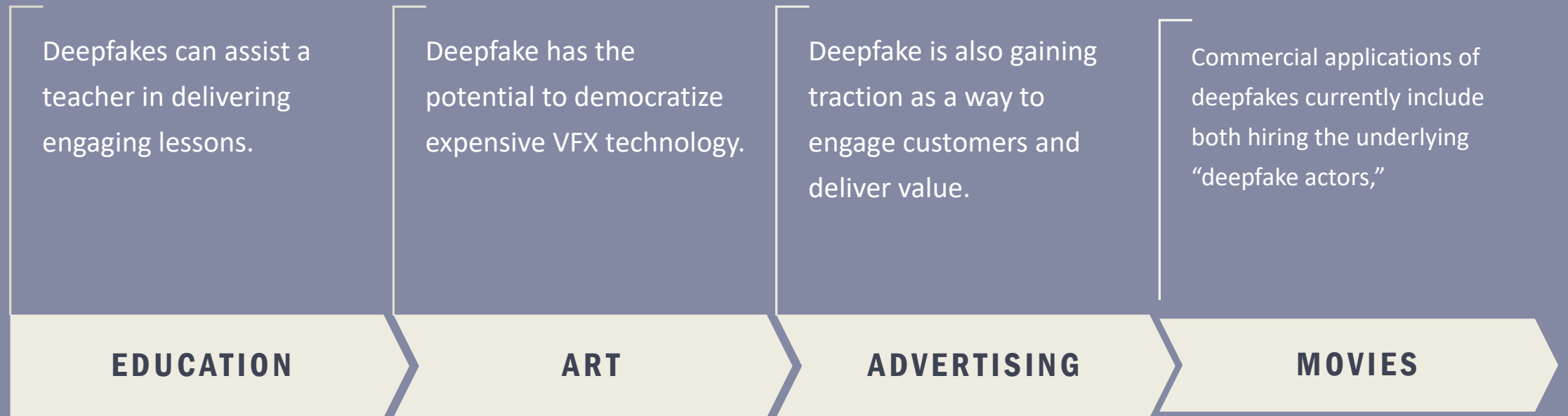




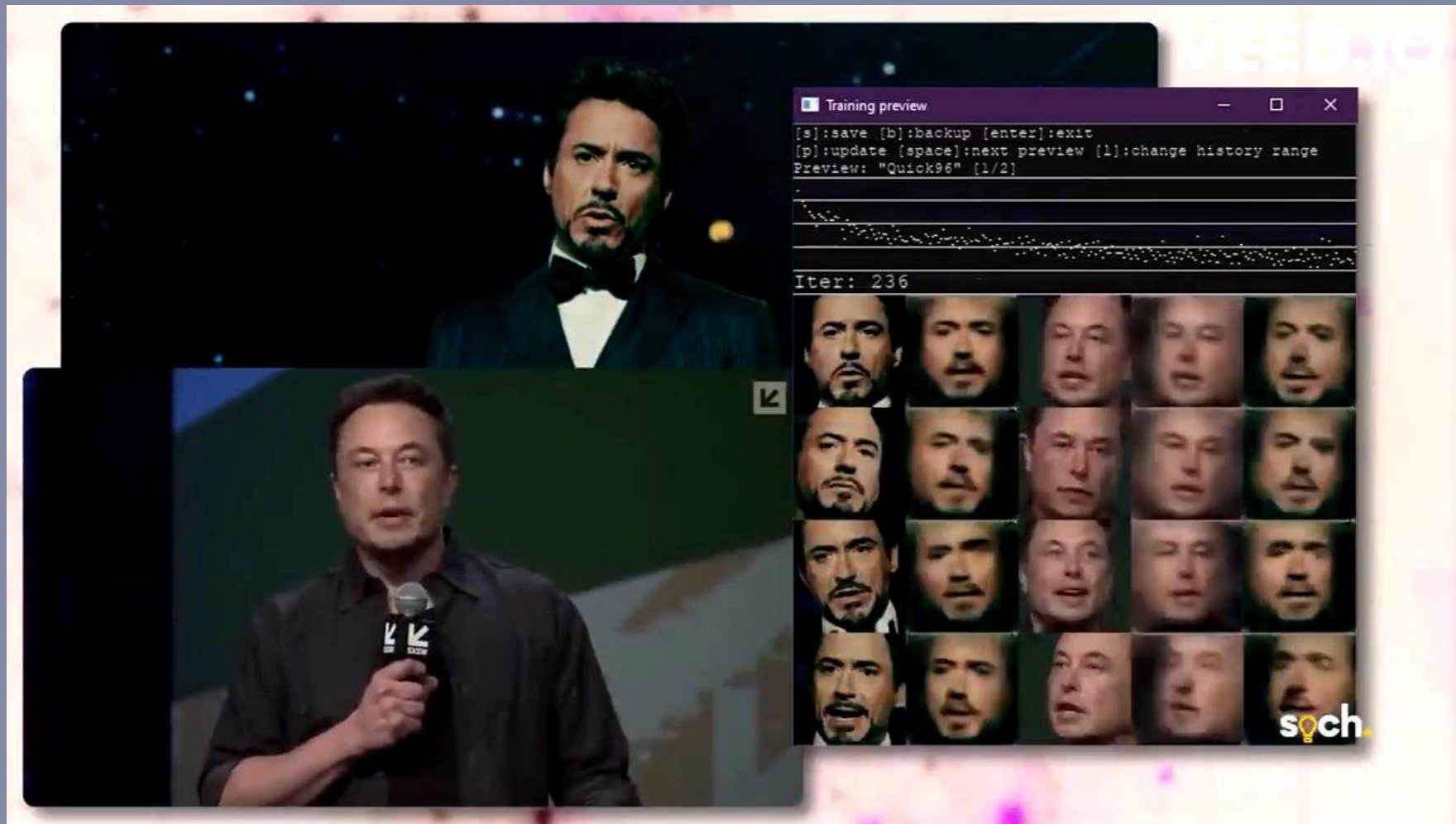
# TOOLS AND TECHNOLOGIES :-



# APPLICATIONS

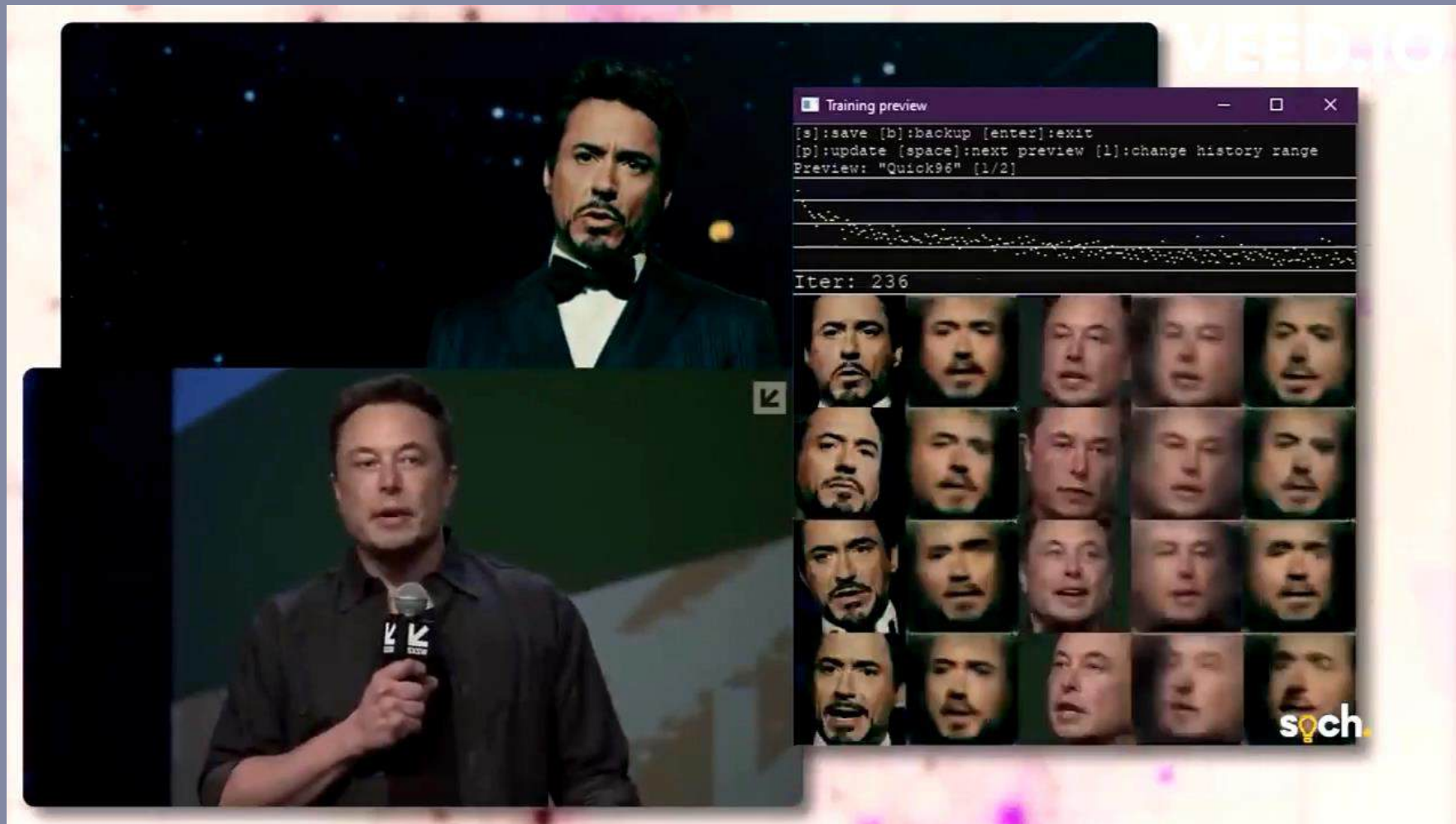


# SOME APPLICATIONS OF DEEP-FAKES





# SOME APPLICATIONS OF DEEP-FAKES





# REFERENCE

## MAIN SOURCE OF INFORMATION

<https://cybersecurity.att.com/blogs/security-essentials/deepfakes-are-a-problem-whats-the-solution>

## STUDY PAPER

<https://www.irjet.net/archives/V9/i6/IRJET-V9I6548.pdf>

## A SURVEY ON IDENTIFICATION OF DEEPFAKE USING AI

<https://ijarsct.co.in/Paper7755.pdf>

**THANK YOU**

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**FOR YOUR ATTENTION**