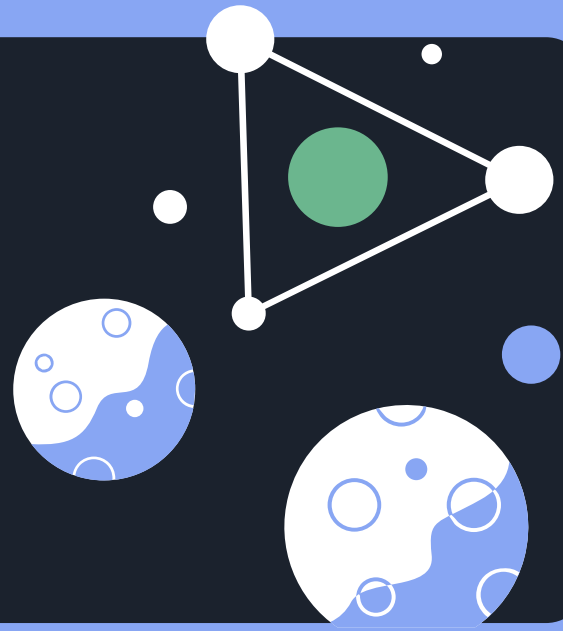
Deep Fake Detection



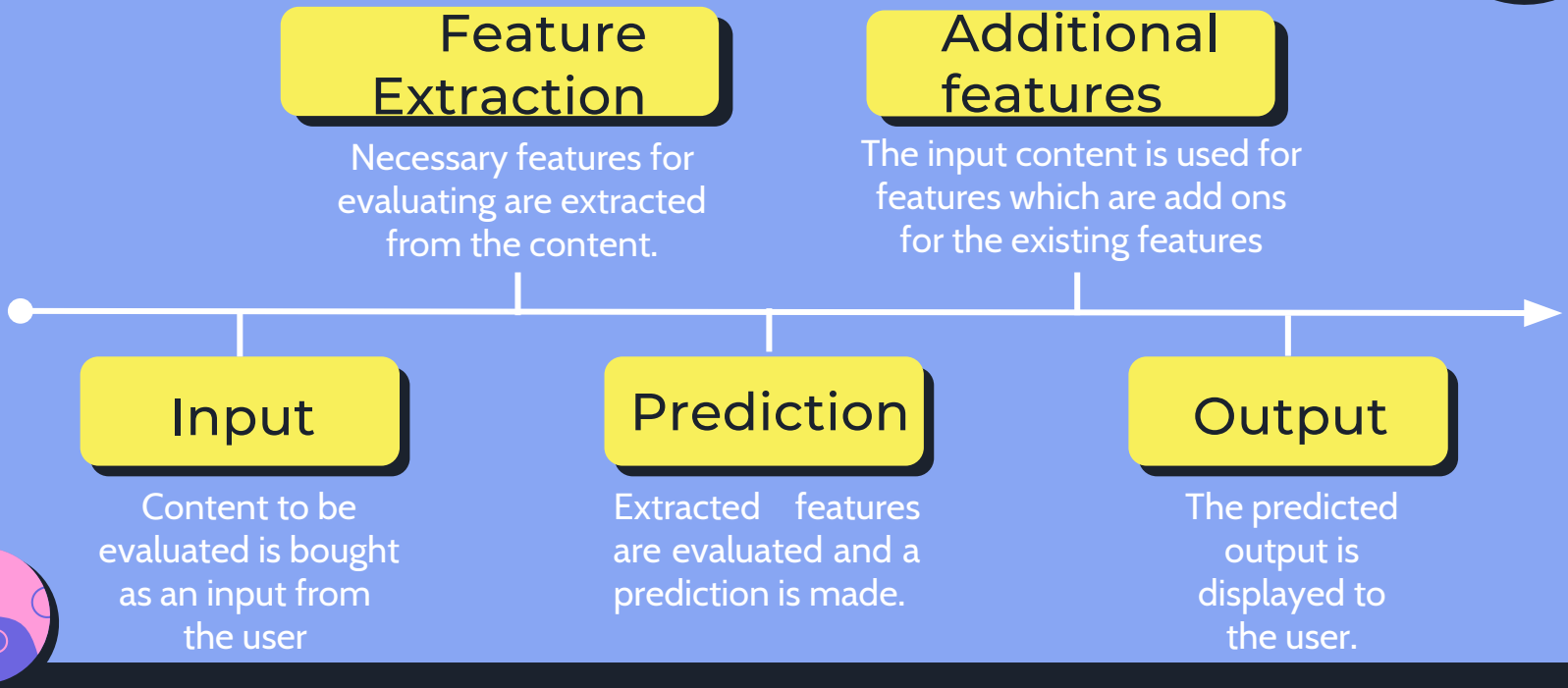
Unmasking the Fake

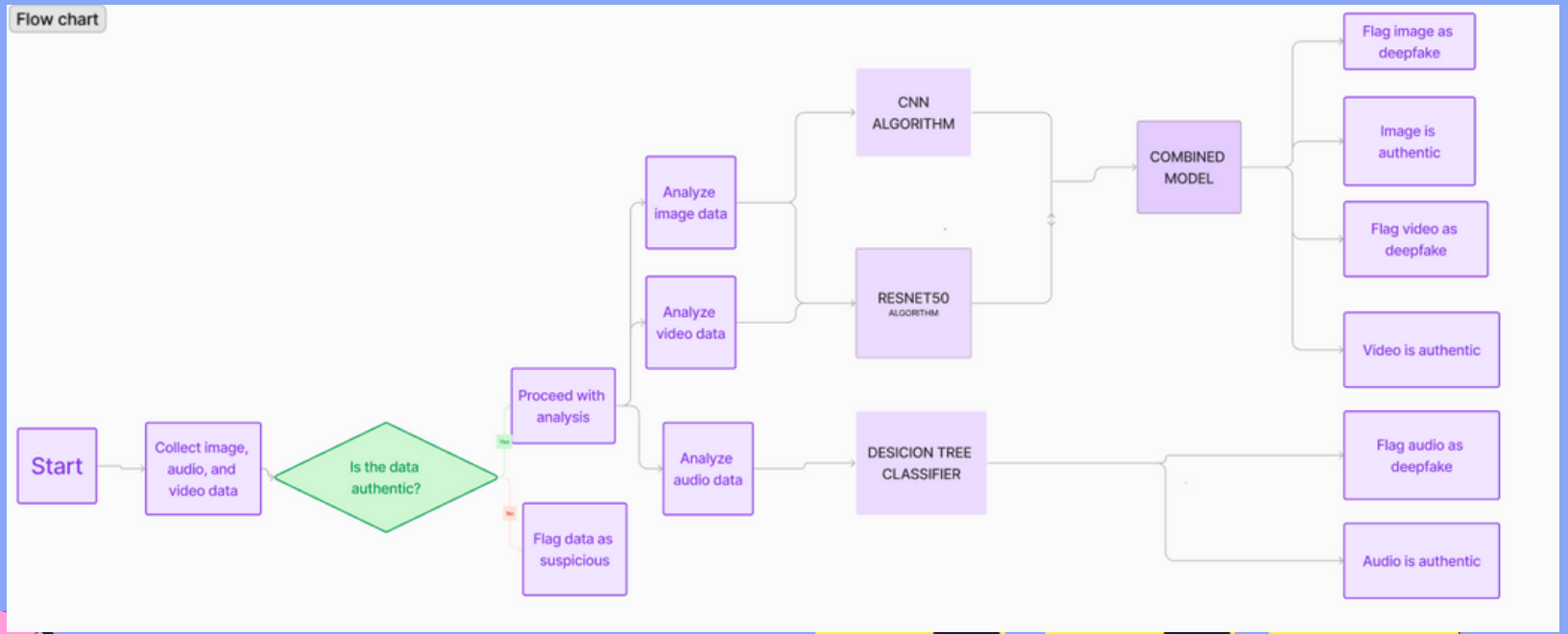
Deep fake detection

Deep fake is highly growing area where aritificial intelligience, particularly deep learning to generate realistic-looking content which often leads to mis-leading of public

Our problem statement here is to develop a project to detect deep fake contents of various types and implement it in a way that it benfits public and helps police offical have control of
fake contents and news.

Workflow of the website




Flow chart
Start
Collect image, audio, and video data
Is the data authentic?
Proceed with analysis
Flag data as suspicious
Analyze image data
Analyze video data
Analyze audio data
CNN ALGORITHM
RESNET50
ALGORITHM
DESICION TREE CLASSIFIER
COMBINED MODEL
Flag image as deepfake
Image is authentic
Flag video as deepfake
Video is authentic
Flag audio as deepfake
Audio is authentic

What sets us apart?

Report generation

Individual report on the input content and basic user details are instantly mailed to certain official authorities.

Model updation

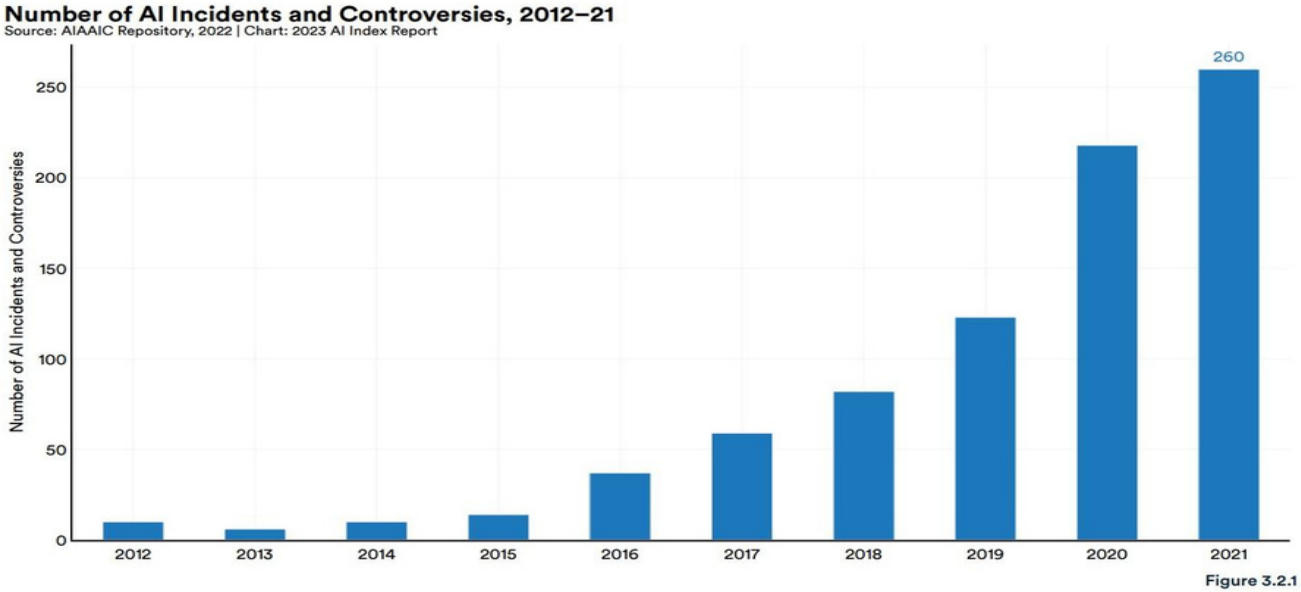
Model is frequently updated based on input and the user feedback.

Accuracy

Higher accuracy is achieved by combining two model algorithms.

What do we do?

Statistics



1 This figure does not consider AI incidents reported in 2022, as the incidents submitted to the AIAAIC database undergo a lengthy vetting process before they are fully added.

In Kendrick Lamar's music video The Heart Part 5, the singer's face morphs into that of the late Kobe Bryant, a deepfake so convincing that it truly looks like Bryant is performing despite passing away two years previously.

Real life incidents

More incidents involving deepfakes

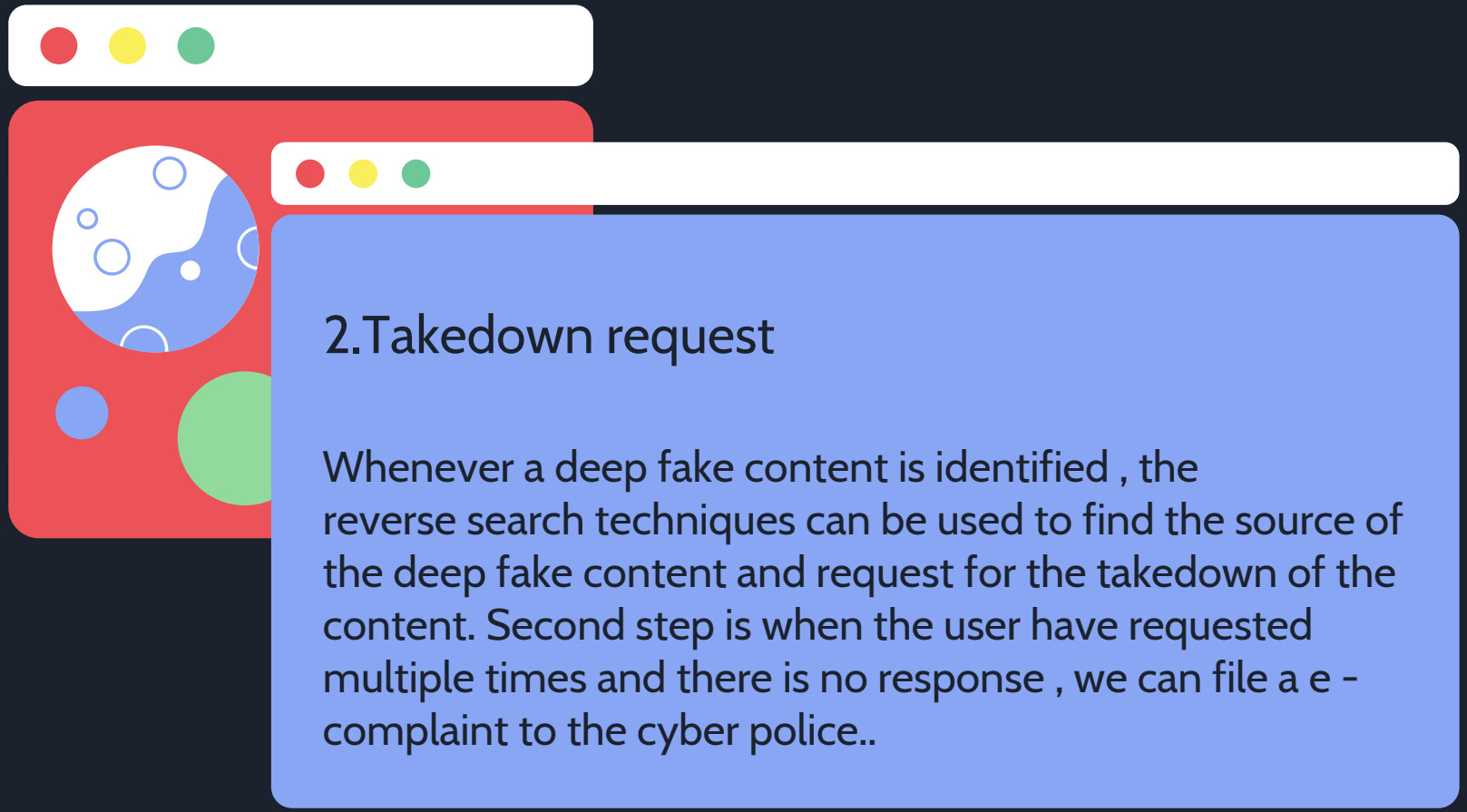
There happened a scam using deepfaked video of famous youtube andrew tate and several amount of money has been scammed from social media

There happened a misuse of socially available pictures of celebrities which has been deepfaked in a wrong way , which spread across the internet

FUTURE CAPABILITIES OF THE PROJECT

1.COLLABORATION

We are planning and researching on making our website as tool that is accessible by social media platform, whenever a deepfake content is shared in a social media platform . every video can be runned for an check and not allowing the deep fake contents to be posted on the social media..



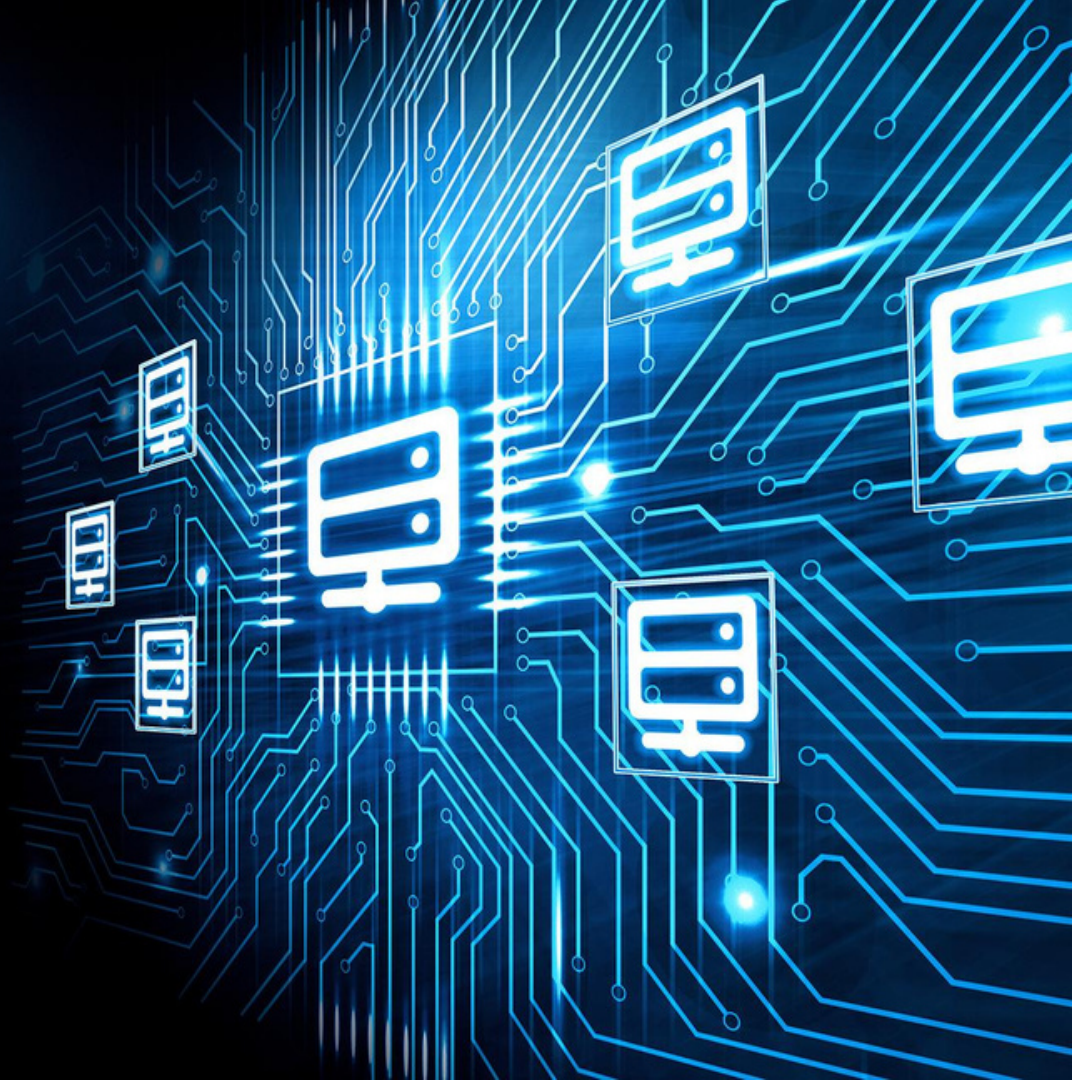
2.Takedown request

Whenever a deep fake content is identified , the reverse search techniques can be used to find the source of the deep fake content and request for the takedown of the content. Second step is when the user have requested multiple times and there is no response , we can file a e - complaint to the cyber police..

=>Accuracy of the model decreases as new AI technologies emerge .

=> Lack of creating a quick and accurate model to detect deep fake content in social media plaltforms.

A picture is worth a thousand words



Our team

PRAVEEN KUMAR B

HARI VARADHAN NR

SURABHI S

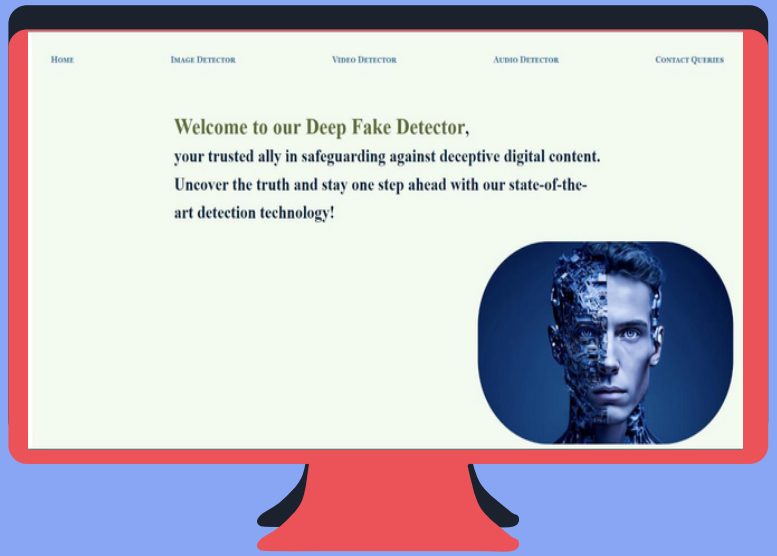
Tech stacks

Python

HTML

JYPYTER LAB

CSS


Home
Image Detector
Video Detector
Audio Detector
Contact Queries
Welcome to our Deep Fake Detector,
your trusted ally in safeguarding against deceptive digital content.
Uncover the truth and stay one step ahead with our state-of-the-
art detection technology!

Mockup

Thanks!

Does anyone have any questions?

bpraven05.com
+91 9345009766