Digital Forensics Lab Report: 4

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Subject Code:	**20CP411P**
Subject Name:	**Digital Forensics Lab**

Aim/Purpose: Study of a Tracking & Tracing Fake Profile(s) & Fake News.

Tool Names:

1. **FreeMapTools :-** View and Edit Photo GPS Data (freemaptools.com)
2. **YouTube data viewer :-** Extract the tags from a Youtube Video (online-free-tools.com)
3. **Google image search :-** Google Images
4. **Tineye image search :-** **TinEye Reverse Image Search**
5. **Jeffrey exif viewer :-** Online Exif Viewer (exif-viewer.com)
6. **Foto forensic :-** FotoForensics
7. **DeepWare Website** :- https://scanner.deepware.ai/

Task 1 :- Exploring View and Edit Photo GPS Data tool :- FreeMapTools

- FreeMapTools :- View and Edit Photo GPS Data (freemaptools.com)
- An online resource that enables visitors to easily and quickly use maps in order to measure, search and overlay mark-up elements on maps for a wide range of useful applications.

Steps:

1. Visit FreeMapTools :- View and Edit Photo GPS Data (freemaptools.com)

Figure 1 View and Edit Photo GPS Data tool :- FreeMapTools

2. Upload image you want to know location and as the result you will get location of image

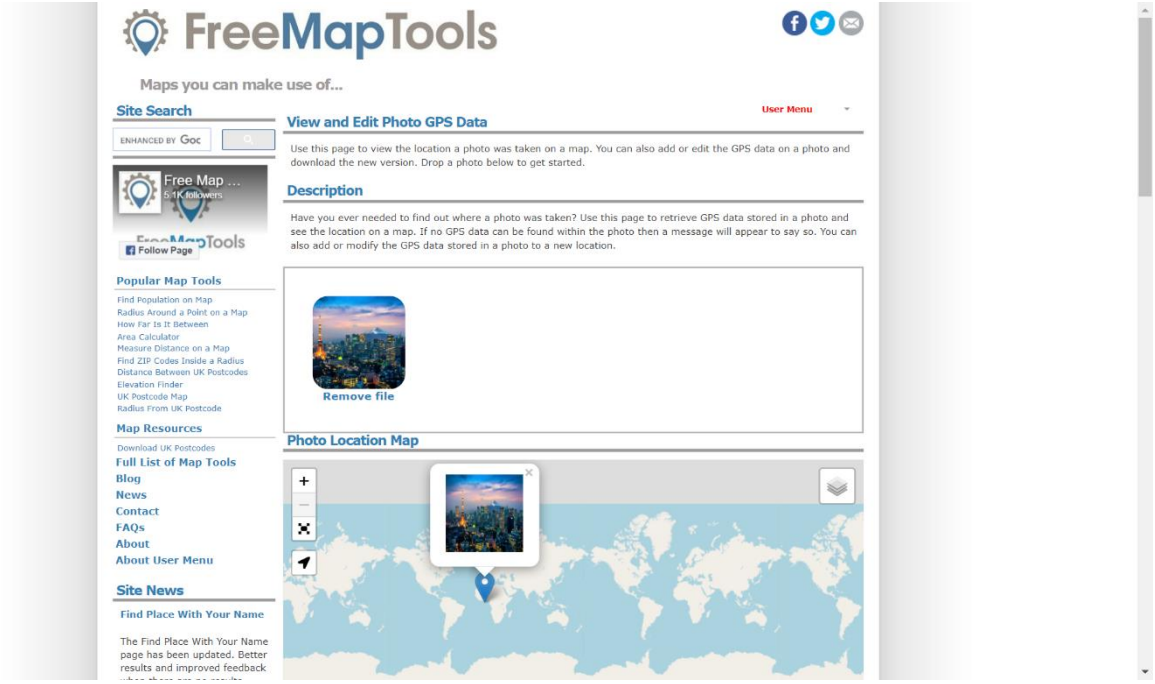

Figure 2 View and Edit Photo GPS Data tool :- FreeMapTools

Analysis:

1. We are using Free Map Tools to view the location a photo was taken on a map. we are able add or edit the GPS data on a photo and download the new version. Drop a photo below to get started.

Task 2:- Exploring and viewing YouTube data viewer

- YouTube data viewer :- Extract the tags from a Youtube Video (online-free-tools.com)

- The YouTube Data Viewer is a web-based video verification tool offered through The Citizen Evidence Lab, created by Amnesty International. Users input a YouTube URL, and the tool outputs information about the video that is helpful in verifying a video. This includes upload time and thumbnails that can be used for reverse image searching.

Steps:

1. **Visit YouTube data viewer :- Extract the tags from a Youtube Video (online-free-tools.com)**
2. Upload youtube video link to know information as a result you will get all data

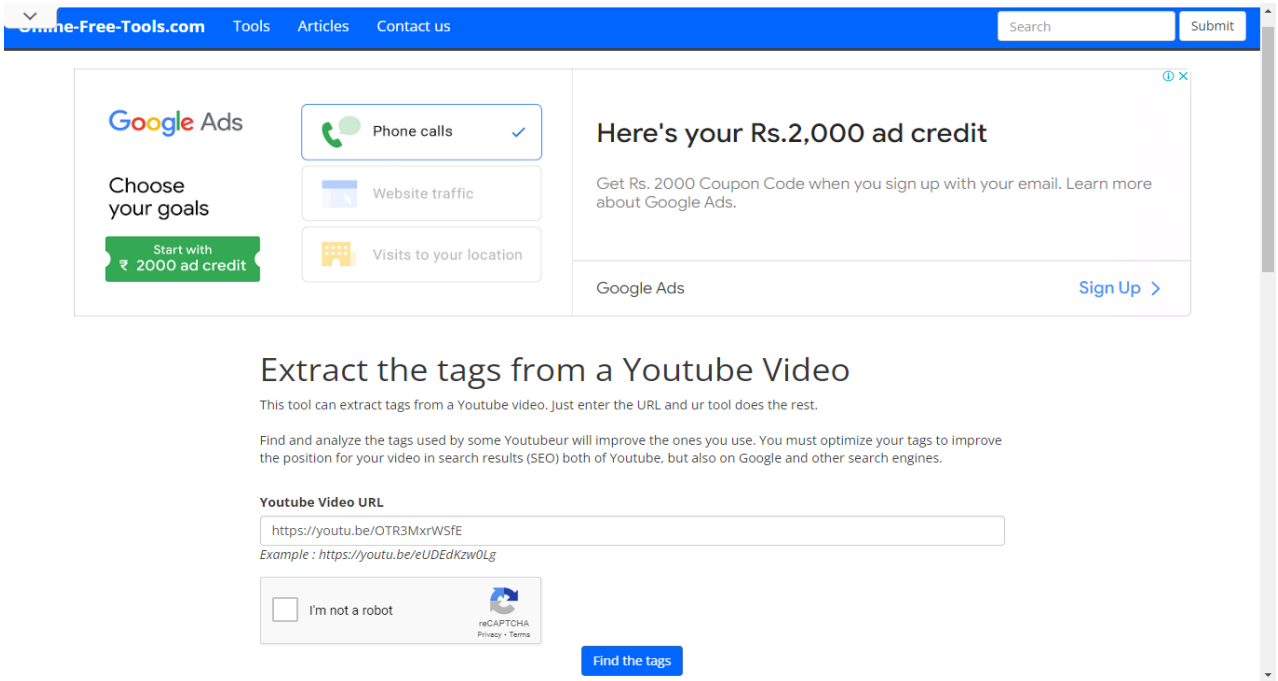

Figure 3 YouTube data viewer

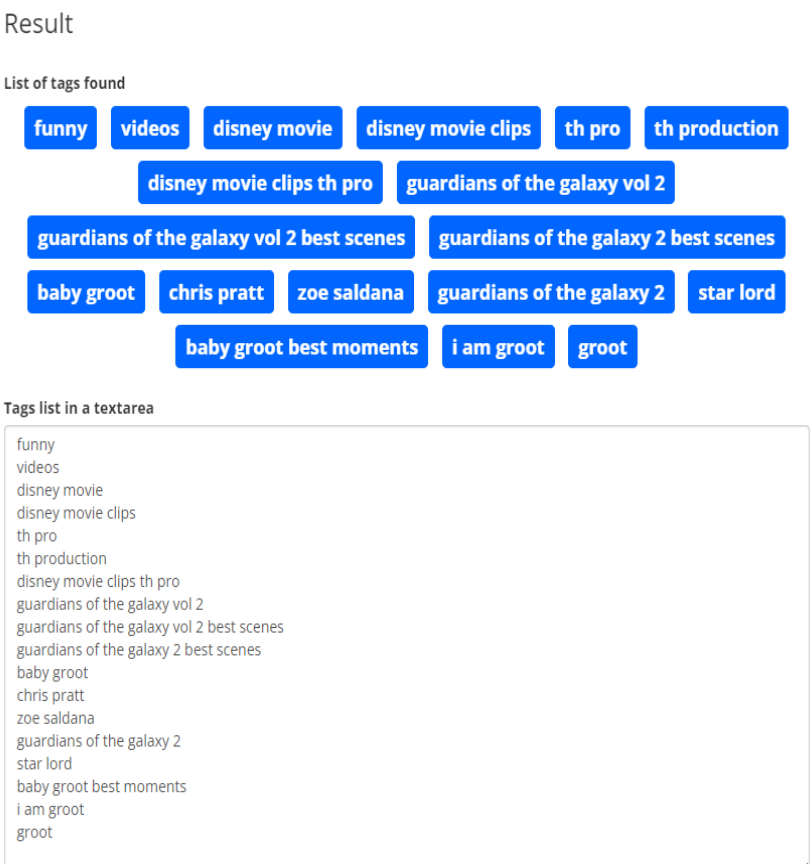

Figure 4 YouTube data viewer

Analysis:

1. We are using You Tube data viewer to know information related that video.
2. Using this tool we are able to extract all the tag related to that video

Task 3 :- Exploring Google image search

- Google image search :- Google Images
- Google reverse image search, officially called Google Search by Image, is a service provided by Google that allows a user to search for images using an image as the starting point, rather than a written or spoken search query.

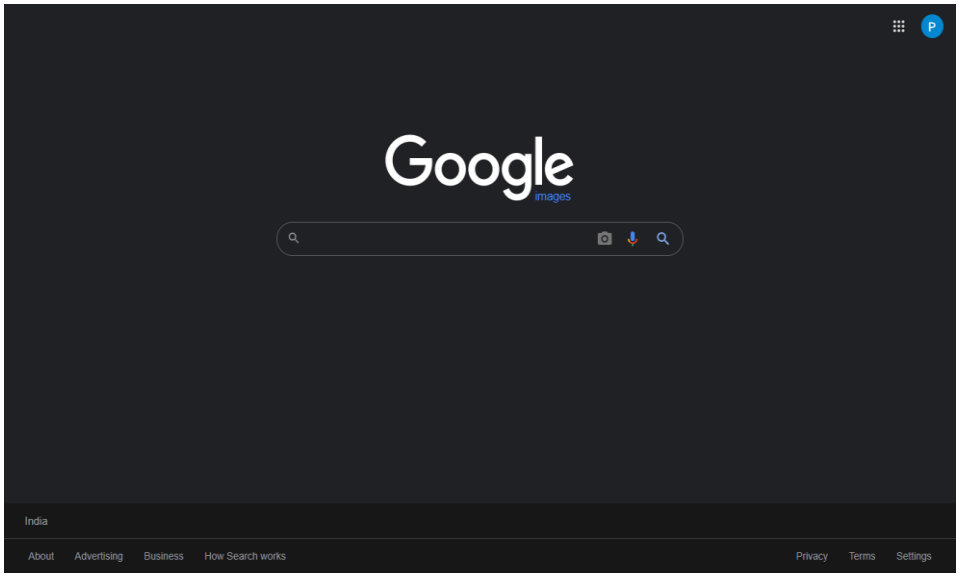

Figure 5 YouTube data viewer

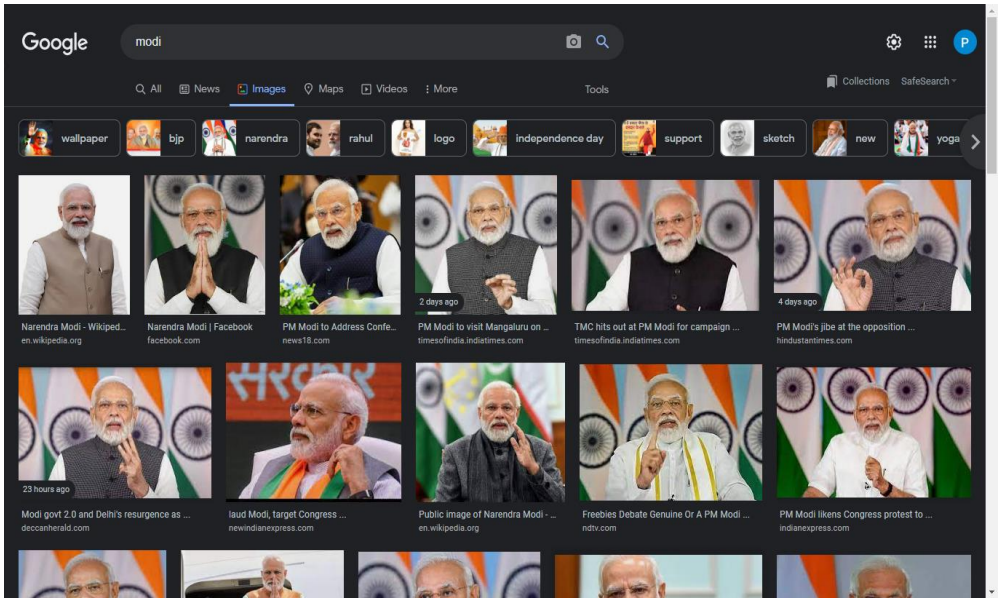

Figure 6 YouTube data viewer

Analysis:

1. Google image search take image link instead of simple text input and it will show you all images related that images and all data related to that images.

Task 4:- Exploring Tineye image search :-

- Tineye image search :- TinEye Reverse Image Search

- TinEye is the original reverse image search engine, using image recognition with a growing index of billions of images. You can use TinEye to find out where an image came from, how it is being used, if modified versions of the image exist, or to find a higher resolution version.

Steps: -

1. Visit Tineye image search :- TinEye Reverse Image Search

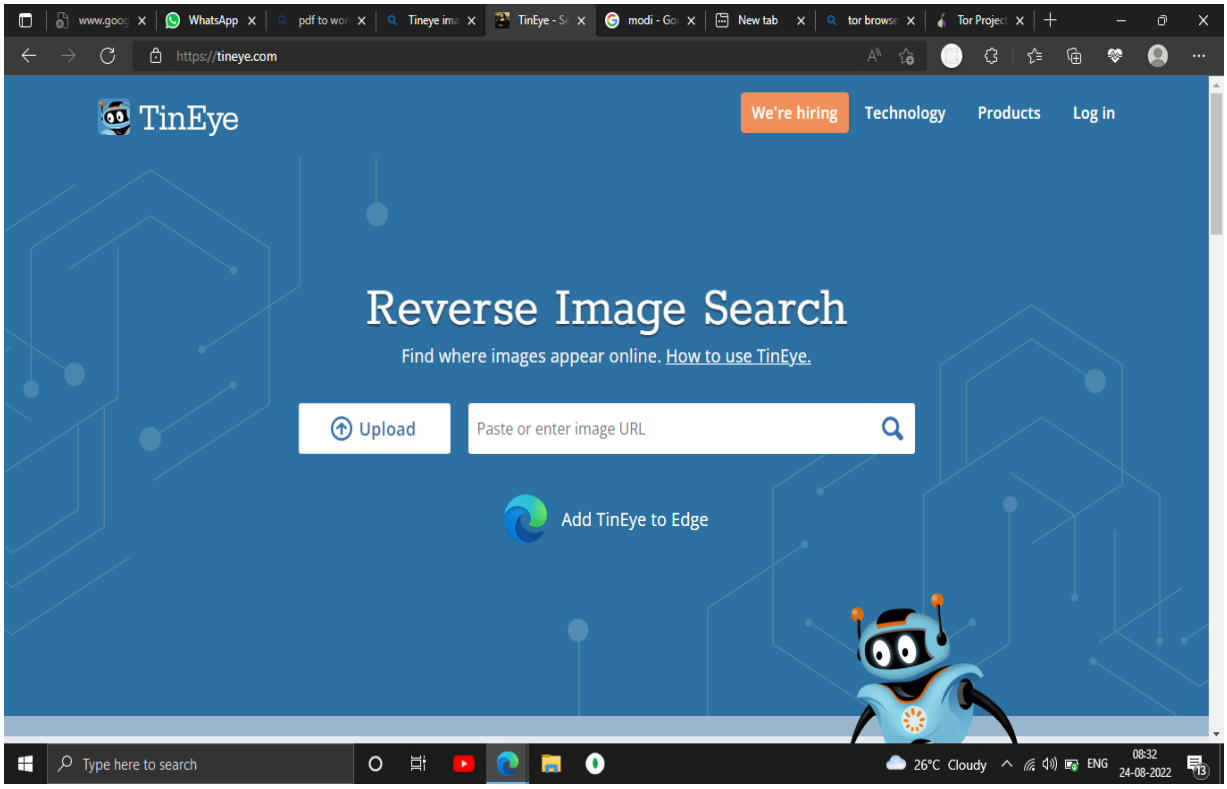

Figure 7 Tineye image search

2. Upload images into tinEye to get revers images of your images and as result you will get all data

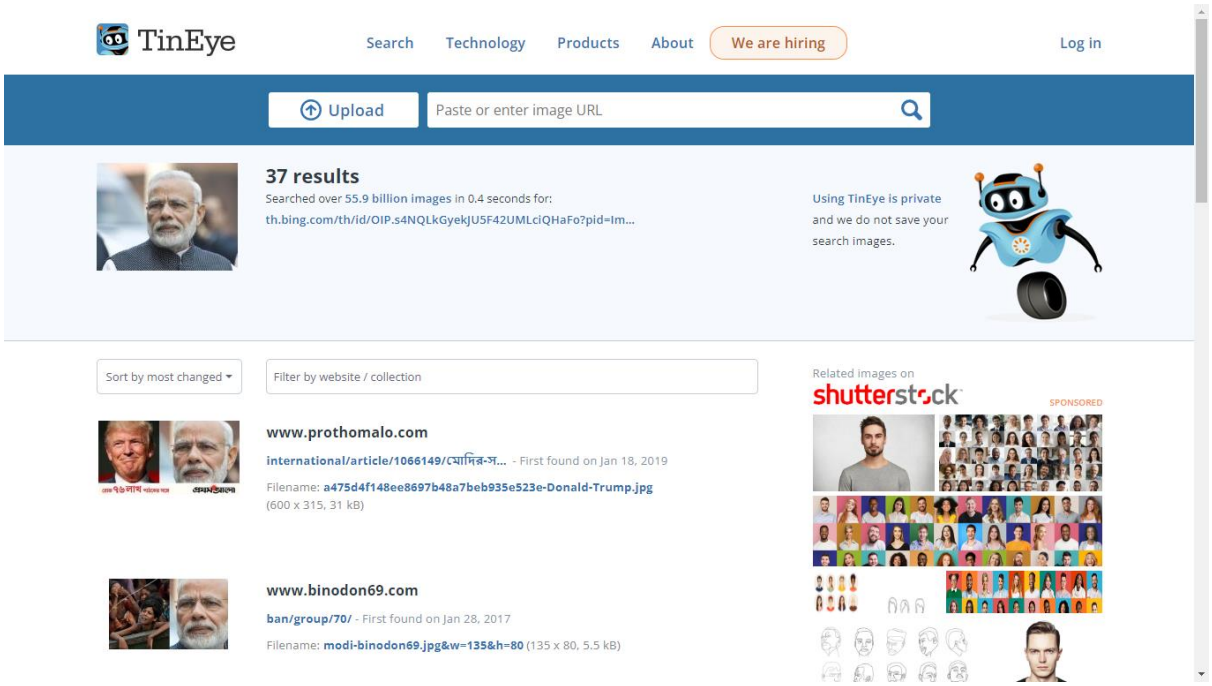

Figure 8 Tineye image search

Analysis:

1. We are using Tin Eye to get original source of images and possible website where we can find this image.
2. We are using modi images as our input source and we get all possible website which are using this image.

Task 5:- Exploring Jeffrey exif viewer

- Jeffrey exif viewer :- Online Exif Viewer (exif-viewer.com)
- Jeffrey's Image Metadata Viewer is an online tool for viewing image metadata or exchangeable image file format (EXIF) data such as date, time and location information, camera settings and thumbnails. The tool is free tu use and does not require subscription or payment.

Steps:-

1. Visit jeffrey exif viewer :- Online Exif Viewer (exif-viewer.com)

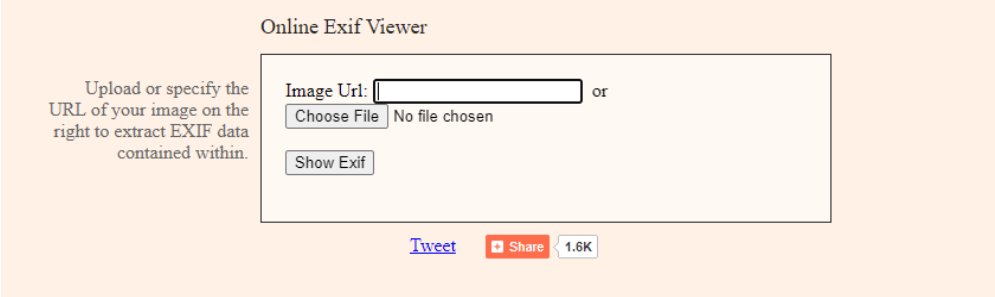

Figure 9 Jeffrey exif viewer

2. Upload images which you want to know information and as result you will get all possible info.

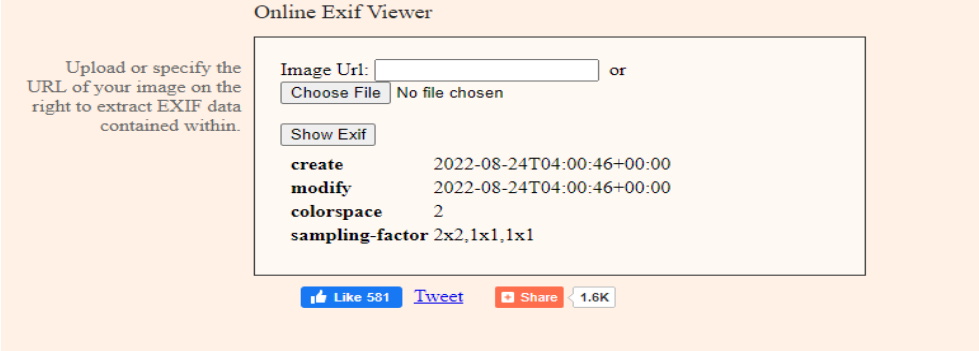

Figure 10 Jeffrey exif viewer

Analysis:

1. We are using jeffrey exif viewer to get info related to imgaes. We get information like as date, time and location information, camera settings and thumbnails.

Task 6:- exploring Foto forensic

- Foto forensic :- FotoForensics
- FotoForensics provides budding researchers and professional investigators access to cutting-edge tools for digital photo forensics. FotoForensics is designed and organized for rapid analysis. With a little experience, an analyst should be able to evaluate a picture in minutes.

Step 1: visit Foto forensic :- FotoForensics

Figure 11 Foto forensic

Step 2:Upload images and press search Butten an you will get result

Figure 12 Foto forensic

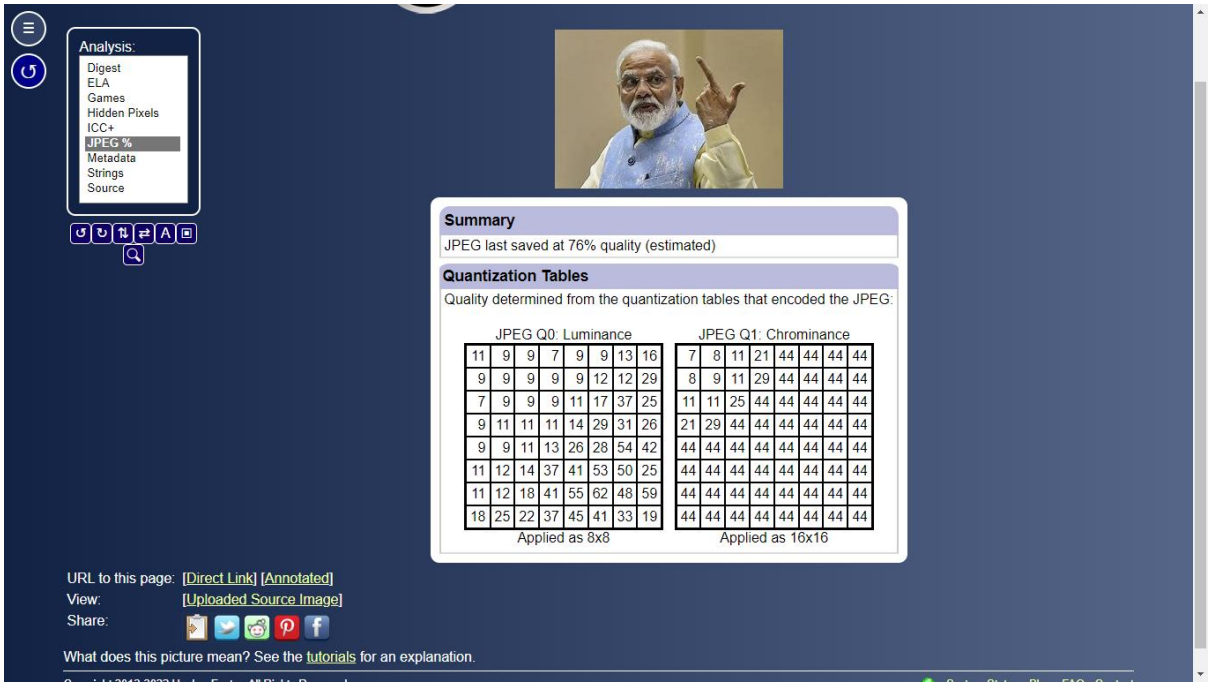

Figure 13 Foto forensic

Analysis:

1. We are using foto forensic to analysing images in sort time and with this we can identity our image real or not.

Task 7:- exploring DeepWare

- DeepWare Website :- https://scanner.deepware.ai/

- Deepware, created by Zemana, develops deepfake detection technology designed to detect deepfake videos or, simply, any fake content in the areas of visual and audio communication. The company's cloud-based solution can scan a suspicious video to find out if it is synthetically manipulated.

Step:

1. Visit DeepWare Website :- https://scanner.deepware.ai/

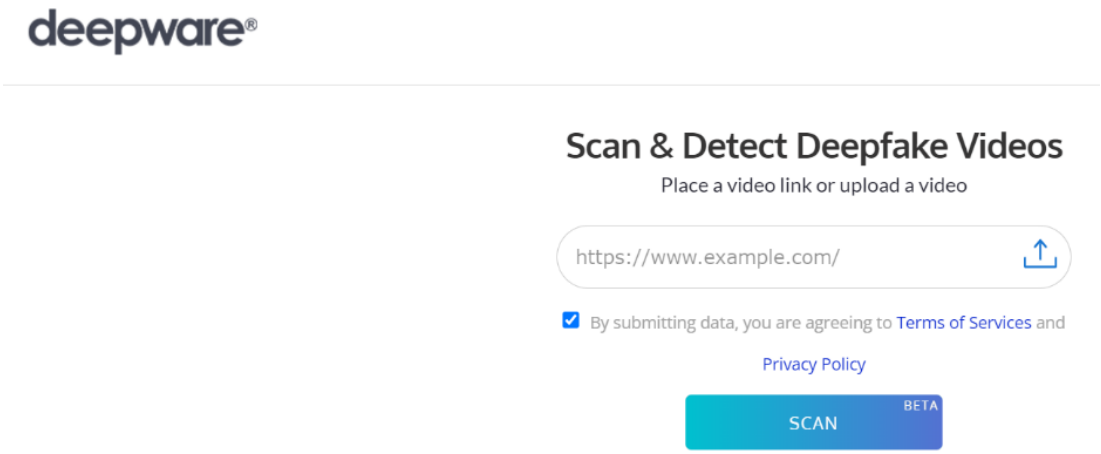

Figure 14 DeepWare

2. Upload Images into deepware to check your image is real or not as result it will show in blow image.

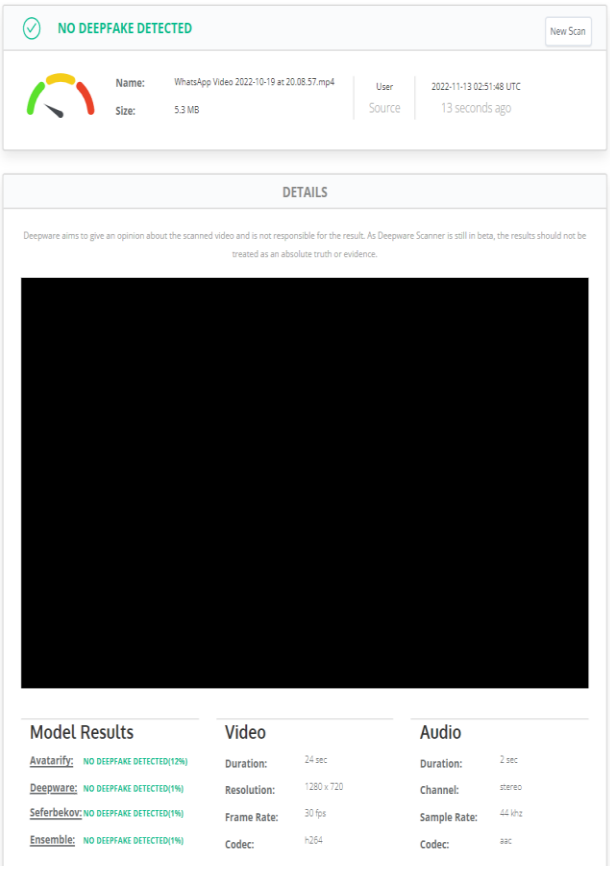

Figure 15 deepWare

Analysis:

1. We are using deepware to analysing images in sort time and with this we can identity our image real or not.

Conclusion:

1. We are using tool like Free Map Tools, YouTube data viewer, Google image search, Tin Eye Reverse Image Search, Jeffrey exif viewer, Foto forensic, Deep Ware Website to identity if imago or video are face or not and also use to find related data and image to original image.