



FAKE NEWS AND DISINFORMATION

HOW TO SPOT AND INVESTIGATE?

**A GUIDE FOR
LAW ENFORCEMENT AGENCIES**

**NATIONAL CYBER RESEARCH &
INNOVATION CENTRE**

MODERNIZATION DIVISION

BUREAU OF POLICE

RESEARCH & DEVELOPMENT

MINISTRY OF HOME AFFAIRS, NEW DELHI



FAKE NEWS AND DISINFORMATION

HOW TO SPOT AND INVESTIGATE ?

A GUIDE FOR LAW ENFORCEMENT AGENCIES

NATIONAL CYBER RESEARCH & INNOVATION CENTRE
MODERNIZATION DIVISION
BUREAU OF POLICE RESEARCH & DEVELOPMENT
MINISTRY OF HOME AFFAIRS

New Delhi | May 2020

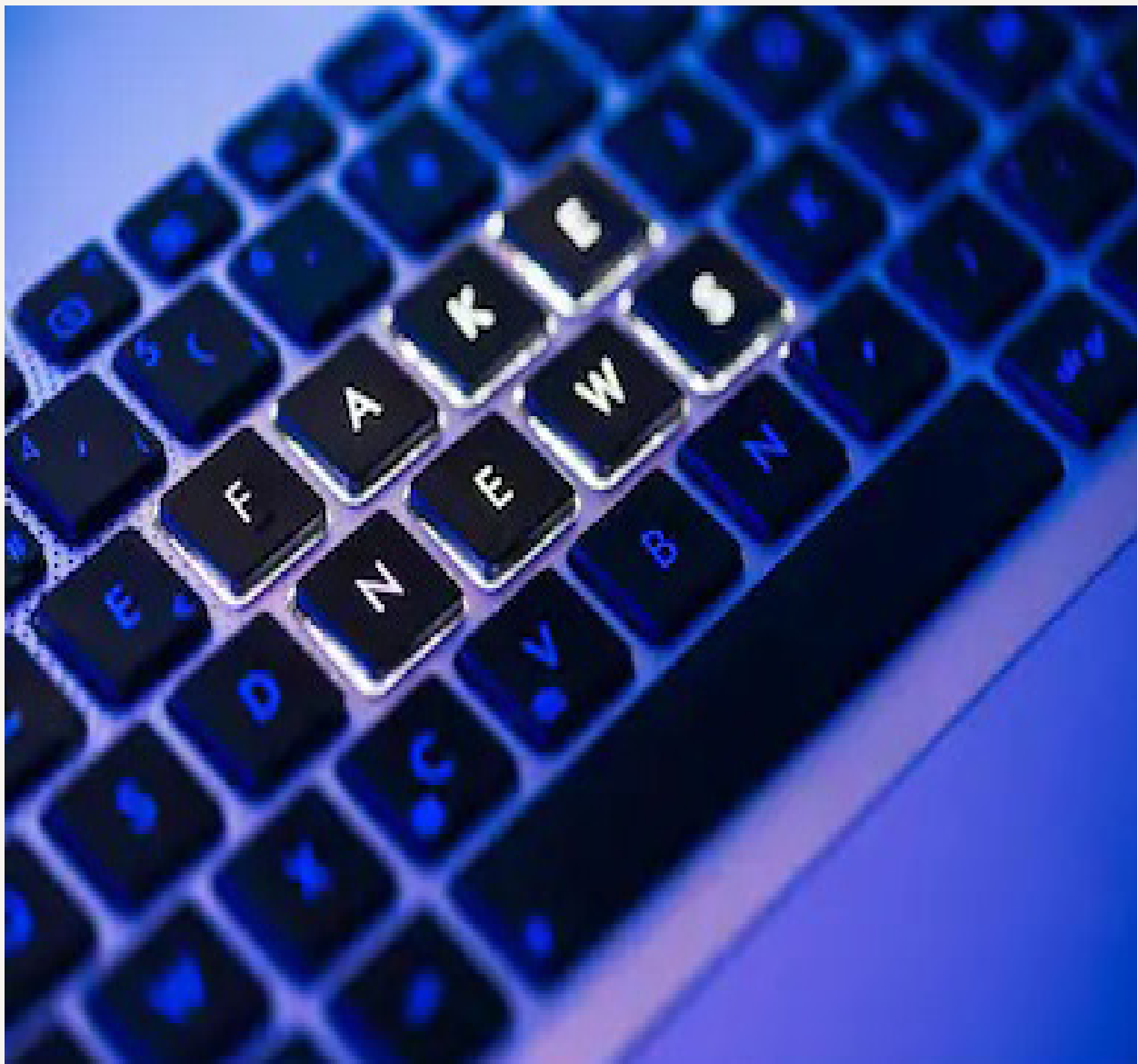
CONTENTS

	Page No.
1 Introduction	7
2 Types of Fake News & Disinformation	8
2.1 Fake News and Disinformation Vectors	9
2.2 Points to help the Investigating Officer identify the Fake News	11
3 How to Spot Fake News	15
4 Investigation and Reporting Procedure	17
4.1 Investigation of Fake News/Disinformation related URLs	18
4.2 Investigation of Fake News related Images	19
4.3 Investigation of Fake News related Videos	29
5 Legal Provisions	34
6 Investigative Sources	35
7 Conclusion	36
8 References	37
9 Few more examples of Fake News and Facts	38

1.0

INTRODUCTION

In novel coronavirus (COVID-19) times, a lot of fake news and disinformation is going around. According to Wikipedia, "Fake News (also known as junk news, pseudo-news, or hoax news) is a form of news consisting of deliberate disinformation or hoaxes spread via traditional news media (print and broadcast) or online social media". Digital news has brought back and increased the usage of fake news or yellow journalism. Fake news is written and published usually to mislead with the intent to damage an agency, entity, or person, and/or gain financially or politically, often using sensationalist, dishonest, or outright fabricated headlines to increase readership. In this scenario, Law Enforcement Agencies (LEAs) should adopt latest cyber investigation methods and procedures for curbing and prosecuting the sources of fake news and disinformation.



2.0 TYPES OF FAKE NEWS & DISINFORMATION

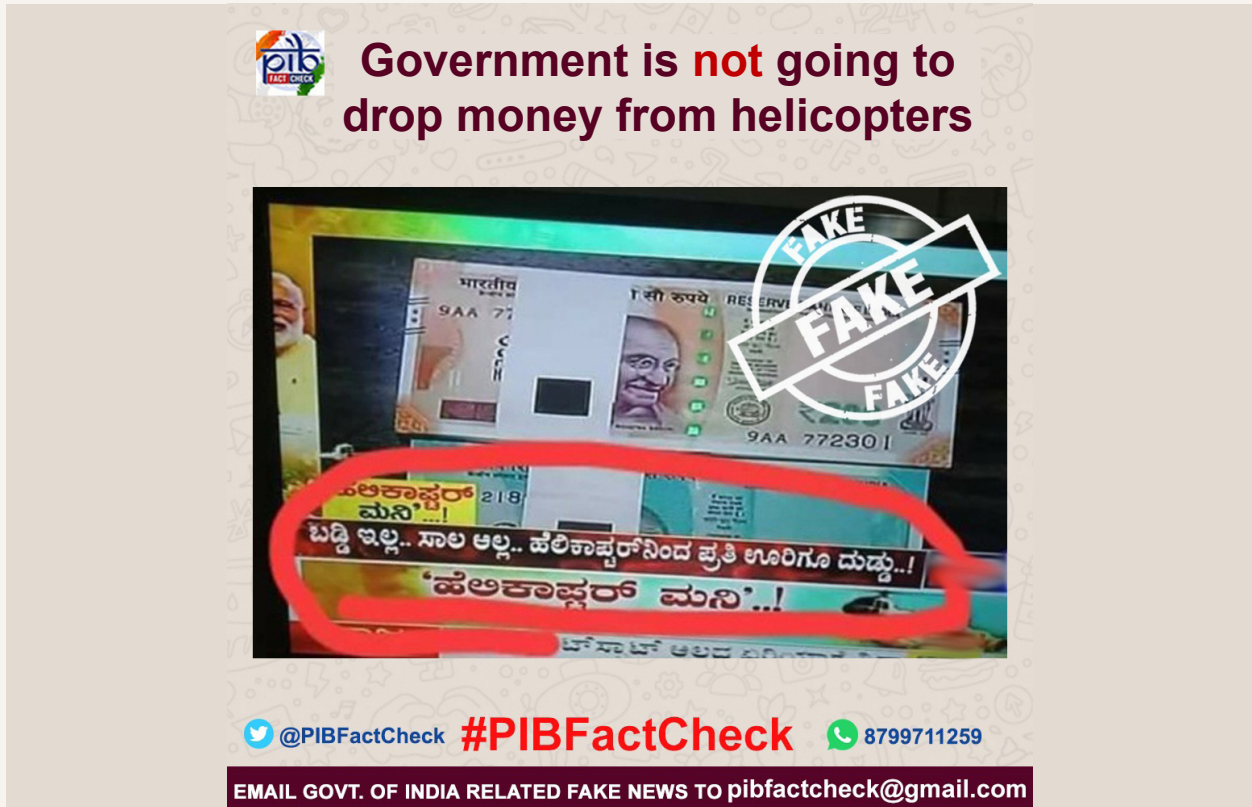
Fake news and disinformation is broadly categorized into the following types, it is achieved through viral posting in formats, like, Audio, Video, Image, Textual Posts and other digital means using online social media and social networking groups.



Figure1: Fake News and Disinformation Vectors

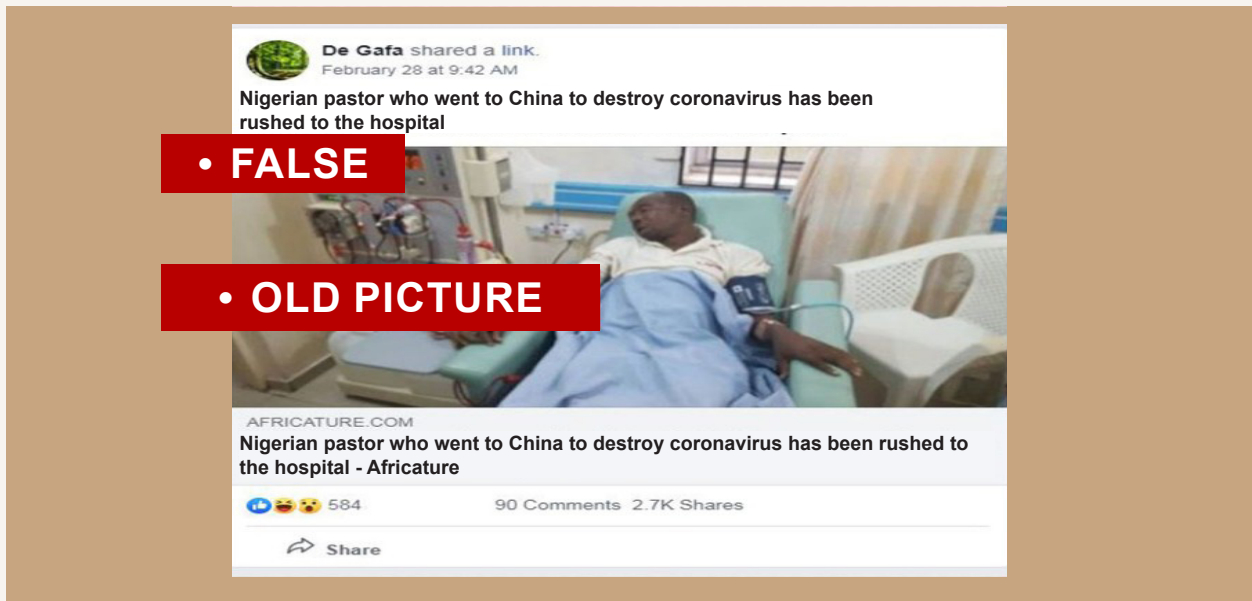
▶▶ 2.1 FAKE NEWS & DISINFORMATION VECTORS

- i. **Textual Post:** Most of the false news is spread through textual posts on social media, that get repeatedly forwarded and shared across various social media platforms, websites and blogs.



Fake News posted on the social media

- ii. **Image /Photo Post:** Fake news spreading agencies/people may opt for Image as tool to make the content viral. In this scenario, someone may misrepresent a photo with misleading text, or morph the photo with deep fake tools.



Nigerian pastor's old picture circulated with misleading text

iii. **Video Post:** One of the fake news spreading vectors is fake videos. Here, most of the video content carries false message, hatred, communal violence, etc., to spread panic.



Fake video circulated across digital media platforms

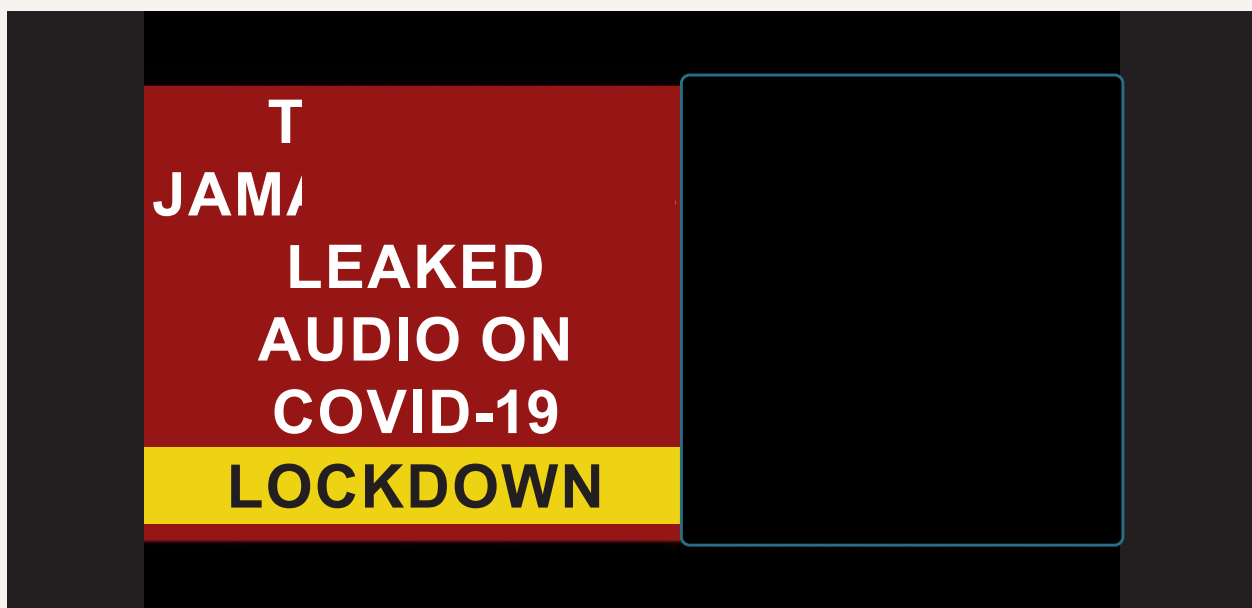
iv. **Fake URLs:** Cyber criminals may take advantage of the situation and exploit the Corona related anxiety, by creating fake URLs through techniques like Click Jacking, Pharming and other methods. Such cyber frauds are also committed for financial gains by luring through fake coupons, discount offers, redeem coupon schemes, etc.

<https://corona-gov.in?60gb>

<https://bit.ly/2JsBZ10>

<http://pmyojna.ssctechnical.com>

v. **Fake/Viral Audios:** In the present scenario, viral/fake newsmongers may create voice content and spread it across the social networking channels



A voice clip of religious leader who violated lockdown rules that went viral

▶▶ 2.2 POINTS TO HELP THE INVESTIGATING OFFICER IDENTIFY FAKE NEWS

- **False Connection** - when headlines, visuals or captions do not support the contents
- **False Context** - when genuine content is shared with false contextual information
- **Misleading Content** - misleading use of information to link an issue or an individual
- **Impostor Content** - when genuine contents or sources are impersonated with false or made-up sources
- **Manipulated Content** - when genuine information or imagery is manipulated to deceive, as with a "doctored" photo
- **Fabricated Content** - False news content is designed to deceive and harm
- **Satire or Parody** - No intention to cause harm, but has, the potential to fool



NO! The Government is doing NO such thing.

WhatsApp info regarding ✓

1. ✓ = Message Sent

2. ✓✓ = Message Delivered

3. 2 Blue ✓✓ = Message Read

4. 3 Blue ✓✓✓ = Government has taken a Note

5. 2 Blue 1 Red ✓✓✓ = Government can take action against you

6. एक नीली और दो लाल 1 Blue 2 Red ✓✓✓ = Government is screening your data

7. 3 Red ✓✓✓ = Government has initiated action & you'll receive summons from court



@PIBFactCheck

#PIBFactCheck



8799711259

EMAIL GOVT. OF INDIA RELATED FAKE NEWS TO pibfactcheck@gmail.com

The only correct UPI ID of
PM CARES Fund is
pmcares@sbi

The Following are **FAKE**

- 
- X** Pacare@ybl
 - X** Pacare@upi
 - X** Pmcares@pnb
 - X** Pmcares@hdfcbank
 - X** Pmcares@yesbank
 - X** Pmcares@sbi
 - X** Pmcares@icici

#PIBFactCheck

To check if any Central Govt. related Policy/Schemes is a Fact or not.

Examples of fake news



**Ministry of Health & Family Welfare
Directorate General of Health Services
[Emergency Medical Relief]**

New Delhi 4th April 2020

ADDITIONAL GUIDELINE FOR PPE KIT SPECIFICATION FOR COVID-19

THE REVISED SPECIFICATION OF PERSONAL PROTECTIVE EQUIPMENT PPE KIT'S AS
RECOMMENDED BY WHO CORONA RESPONSE AND ACTION TEAM VIDE: INTERIM GUIDANCE
4TH APRIL 2020

PERSONAL PROTECTION KIT:

- A) GLOVES-UNCHANGED
- B) FACE MASK- UNCHANGED
- C) HEAD SHIELD- UNCHANGED
- D) COVERALL SUIT/JUMP SUIT-EARLIER SPECIFICATION. REVISED TO 95GSM-
SPLASH PROOF/NON PERMEABLE QUALITY
- E) GOGGLES- SAME (OPTIONAL IN CASE)
- F) KNEE LENGTH SHOE COVER- UNCHANGED



WE SHALL KEEP YOU POSTED ABOUT ANY FURTHER INFORMATION WHEN IT COMES AND SEEMS
TO BE APPROPRIATE.



Director Prohibition and Excise Department Government of Telangana

**DATE 28 MARCH 2020
READ FOLLOWING**

Go Ms No 212 e Prohibition & excise dt28 March 20
Go Ms No 212 e Prohibition & excise dt28 March 20

Director of Prohibition and Excise Department
Government of Telangana State issues order
no 212/2020 order say All The State Wide
Wine Shops Will be Remain Open from 29th
March 2020 Time 14:00 Hrs To 17:30 5
Excise Constables Duely Depaloyed for Each
Shop To Maintaine Social Distance Among
Distinguished Visitors Voilating Timings
Will Be Punished Under Act 386/1982 IPC

**FAKE
NEWS**

Director

A handwritten signature in green ink, appearing to be 'S. Chandrababu Naidu', written over a white background.



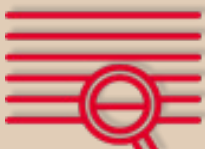



Prohibition And Excise
Department



Examples of fake news

3.0

HOW TO SPOT FAKE NEWS AND DISINFORMATION

Following table may help the LEAs to spot fake news and disinformation. Parameters given below are indicative in nature.

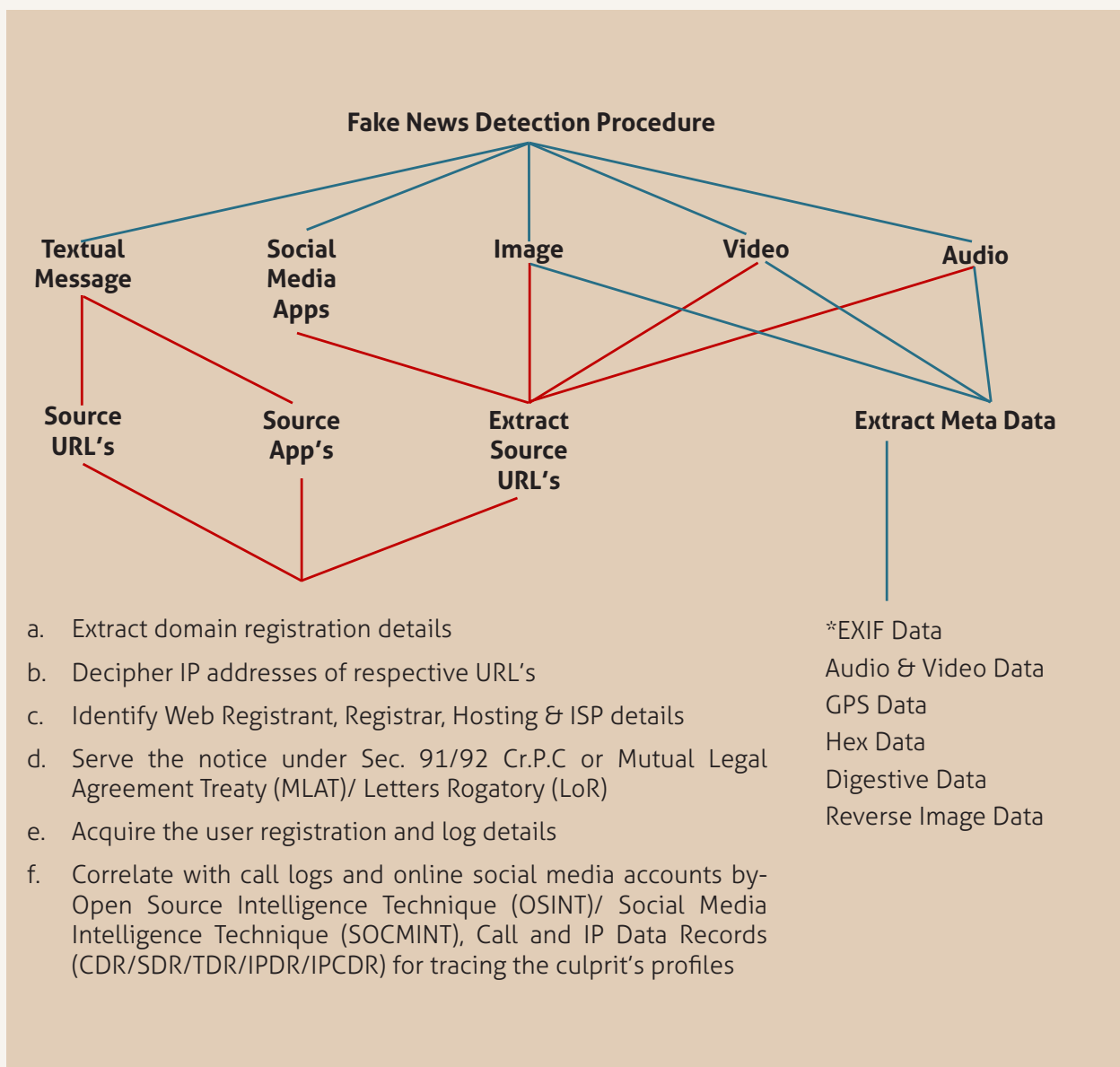
Sl. No.	Fake News Spotting Elements	Description
1.	<ul style="list-style-type: none"> Consider the source 	<ul style="list-style-type: none"> Many messages or website links one receives may contain hoax or fake news. They may have spelling mistakes. Look for the indicative signs to check, if the information is accurate.
2.	<ul style="list-style-type: none"> Check Photos and Videos carefully 	<ul style="list-style-type: none"> Photos, audio recordings, and videos can be edited to mislead the recipient. Look at trusted news sources to verify whether the story is being reported elsewhere. When a story is reported in multiple places, it is more likely to be true.
3.	<ul style="list-style-type: none"> Read beyond 	<ul style="list-style-type: none"> Headlines can be outrageous to attract clicks. Go through the whole story.
4.	<ul style="list-style-type: none"> Check the author 	<ul style="list-style-type: none"> Do a quick search on the author. Is he reliable? Is he real?
5.	<ul style="list-style-type: none"> Supporting Sources 	<ul style="list-style-type: none"> Click on those links. Determine if the info given actually supports the story.
6.	<ul style="list-style-type: none"> Check the date 	<ul style="list-style-type: none"> Reposting old news/ stories in the current context. The old stories may not be relevant to the current events.

Sl. No.	Fake News Spotting Elements	Description
7.	<ul style="list-style-type: none"> Check your biases 	<ul style="list-style-type: none"> Watch out for information that confirms your pre-existing beliefs. Review facts before sharing the information. Stories that seem hard to believe are often untrue.
8.	<ul style="list-style-type: none"> Verify from other sources 	<ul style="list-style-type: none"> If not sure about the truth of a message, search online for facts and check trusted news sites to see from where the story came?
9.	<ul style="list-style-type: none"> Understand when a message is forwarded 	<ul style="list-style-type: none"> Messages with the "Forwarded" label help determine if a friend or relative wrote the message or it originally came from someone else. When a message is forwarded from one user to another more than five times, it is indicated with a double arrow icon 
10.	<ul style="list-style-type: none"> Fake news often goes viral 	<ul style="list-style-type: none"> Even if a message is shared many times, this does not make it true. Do not forward a message simply because the sender is urging you to do so.
11.	<ul style="list-style-type: none"> Fake News Spotting & Fact Checking Sources 	<ul style="list-style-type: none"> https://pib.gov.in/factcheck.aspx https://www.factcheck.org/ https://reporterslab.org/fact-checking/ https://factly.in/category/fake-news/ https://www.boomlive.in/about-us/ https://factcheck.telangana.gov.in/ https://www.altnews.in/ https://www.metadata2go.com/ https://www.thequint.com/news/webqoof India Today -Anti Fake News War Room (AFWA) Times of India -Times Fact Check The Hindu -Fact Check

4.0 INVESTIGATION & REPORTING PROCEDURE

The Investigating officer may follow the following scenarios, and follow the instructions for fake news investigation, step by step.

- **Photo Manipulation** — Easy to check, using tools such as Google Reverse Search.
- **Video Tricks** — Close examination of the video and finding the original video are among the steps here.
- **Twisting Facts** — Watch for deceptive headlines, opinions presented as facts, distortions, made-up facts and neglected details.
- **Pseudo-Experts, Imagined Experts and Misrepresented Experts** — How to check their credentials and their statements?
- **Using the Media** — Watch for false claims by referencing the mainstream media.
- **Manipulating Data** — Look at the methodology and the questions

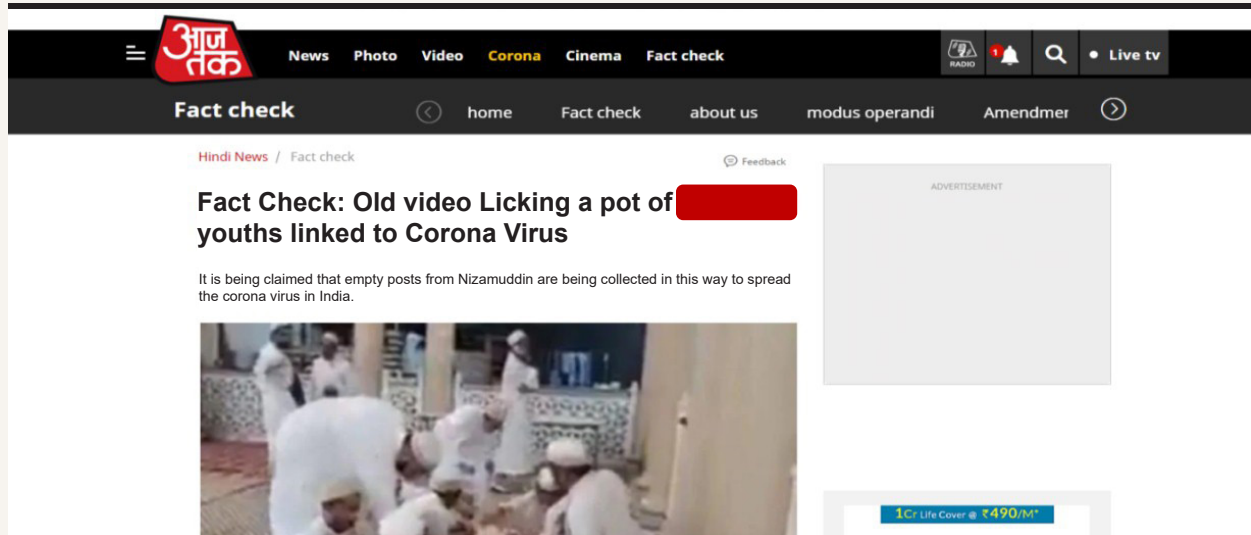


*EXIF - Exchangeable Image File Format, IPDR - Internet Protocol Data Record, IPCDR-Internet Protocol Call Data Record, CDR - Call Data Record, SDR - Subscriber Data Record, TDR - Tower Dump Record

▶▶ 4.1 INVESTIGATION OF FAKE NEWS/DISINFORMATION RELATED URLS

Step 1:

Collect the screenshot of the fake news and disinformation content, and the URL, it should be copied and kept on file, with the help of website preservation tools (Camtasia, Snagit, FAW, Httrack and Foca, etc.)



Example-fake video, across digital platforms

Step 2:

If the uploaded content is Image, Video & Audio, etc., the investigating officer should download the content from the target website, using online free video download websites, like <https://en.savefrom.net/10/>, <https://catchvideo.net/>, etc., and calculate the hash value and keep it as evidence and for admissibility.



Fake News posted by anonymous user on Tiktok for promoting communal hatred

Hashing MD5: 5F369C1F464A6FDE2C54E8CC5850FD89

Hashing SHA1: 71F0DD5C3591A9D36DD32529DC07F670AF041732

Hashing SHA2: AAC98C94457539D7690FDBBF139F3583E4605DB160949C6302D0C758FEACB0E2

Step 3:

The IO should take the name of the website hosting the fake news and check through websites, like www.who.is, www.domaintools.com, www.centralops.net, www.myip.ms, etc., to get the details of the defined domain, such as "https://aajtak.intoday.in/". IO must specifically look for the domain registrar and the registrant, web hosting and ISP details.

MYIP.MS Hosting Info, Websites & IP Database

IPv6 WHOIS Support

Login | Register

www.aajtak.intoday.in Whois Lookup

Products | Hosting Companies | Websites | Blacklist / IP Database | Interesting | Sitemap | API

Whois Web Hosting Information for website - www.aajtak.intoday.in - 9 April 2020, 11:03:45

Hosting Info for Website: www.aajtak.intoday.in

Popularity: 260,000 visitors per day on intoday.in

IP Address: 18.136.13

IP Location: USA, Massachusetts, Cambridge

IP Reverse DNS (Host): ec2-18-136-13-233.ap-southeast-1.compute.amazonaws.com

Hosting Company: Amazon.com, Inc

Hosting IP Range: 18.128.0.0 - 18.255.255.255 (8,388,608 ip) Other Sites on IP »

Hosting Address: 1200 12th Avenue South, Seattle, WA, 98144, US

Hosting Country: USA

Hosting Phone: +1-206-266-4064

Hosting Website: www.amazonaws.com

Hosting CIDR: 18.128.0.0/9

Whois Record Created: 29 Jun 2018

Website Live Diagram

Alexa Rank Graph

Example- website for checking fake news domain related evidence

▶▶ 4.2 INVESTIGATION OF FAKE NEWS RELATED IMAGES

Step 1:

If the uploaded fake news contains Image, Video & Audio, etc., the Investigating Officer should download the content from the target website. If it is a video file, IO may use online free video download websites like <https://en.savefrom.net/10/>, <https://catchvideo.net/> and calculate the hash value and keep it as evidence and for admissibility.



Example – Morphed Image with Fake Content

Hashing MD5: 9F68EB938D248494BFA296180DBC779C

Hashing SHA1: DCBE470EB9F081925229A95751D183087939F1C9

Hashing SHA2: 1B6861833E0E6AE7C9E5766056A18B4F06BCEF68EB9A914114001C7256D88CBF

Step 2:

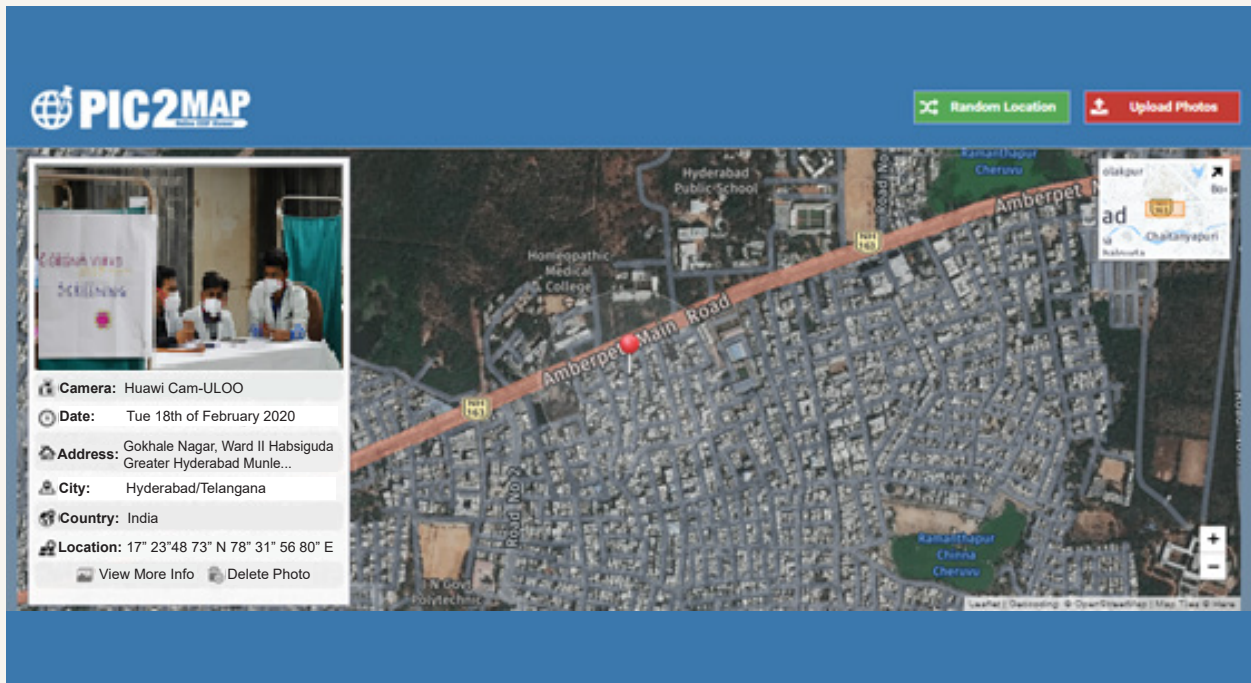
In case of an image file, the Investigating Officer may adopt META-DATA (Exchange Information or EXIF-DATA) extracting methods, using online websites like <https://www.pic2map.com/>, <http://fotoforensics.com/>, <http://metapicz.com/#landing>, <https://29a.ch/photo-forensics/#forensic-magnifier>, etc., for collecting more information

Note: Before uploading any image onto the above websites, the Investigating Officer may consider the case sensitivity because these websites are hosted on foreign servers/cloud systems, that may influence/ mislead the investigation due to data leakage.

Example – Metadata Analyzer Tool-Metadate2Go

Step 3:

After uploading the target image on to the above websites, the following Meta-Data results may be found by the IO



Example- Meta Data extraction website -PIC2MAP

GPSVersionID	2,2,0,0
GPSLatitudeRef	N
GPSLatitude	17.3969
GPSLongitudeRef	E
GPSLongitude	78.5325
GPSAltitudeRef	1
GPSAltitude	0
GPSTimeStamp	11,40,52
GPSDateStamp	2020:02:18

- [View on OpenStreepMap](#)
- [View on Google Maps](#)
- [Other Images around here on Flickr](#)

Report a problem | © OpenStreetMap contributors

Extraction of embedded GPS details in the target image

EXIF Data	Value
File Name	IMG_20200218_171052.jpg
Date	04/01/2020 05:10 PM
Filesize	2.68M
Width	4160 pixels
Height	3120 pixels
Horizontal Resolution	72dpi
Vertical Resolution	72dpi
Mime Type	image/jpeg
Exif Version	0210

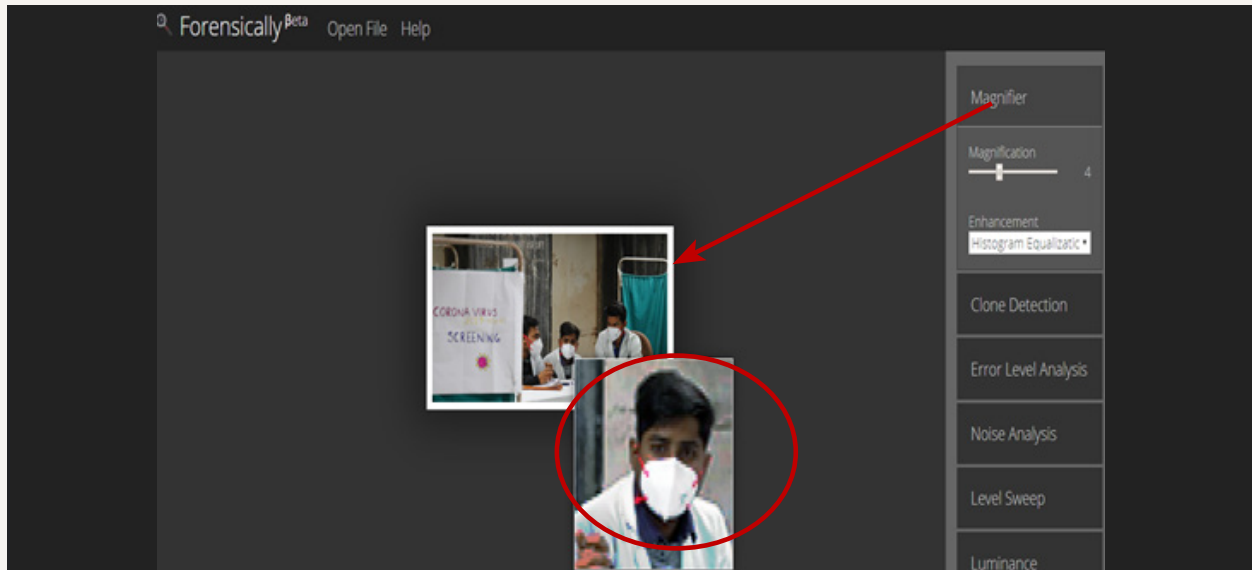
Camera Data	Value
Make	HUAWEI
Model	CAM-UL00
Exposure Time	1/25 sec.
Aperture Value	2 EV
F-stop	f/2.0
ISO	1110
Focal Length	3.79.0 mm
Exposure Program	normal program
Metering Mode	average
Flash Status	flash did not fire
Light Source	Daylight
Shutter Speed Value	46438/10000

GPS Data	Value
GPS Version	2.2.0.0
GPS Longitude Ref	East
GPS Longitude	78.5324686
GPS Latitude Ref	North
GPS Latitude	17.3968704
GPS Altitude Ref	Above Sea Level
GPS Altitude	0 meters

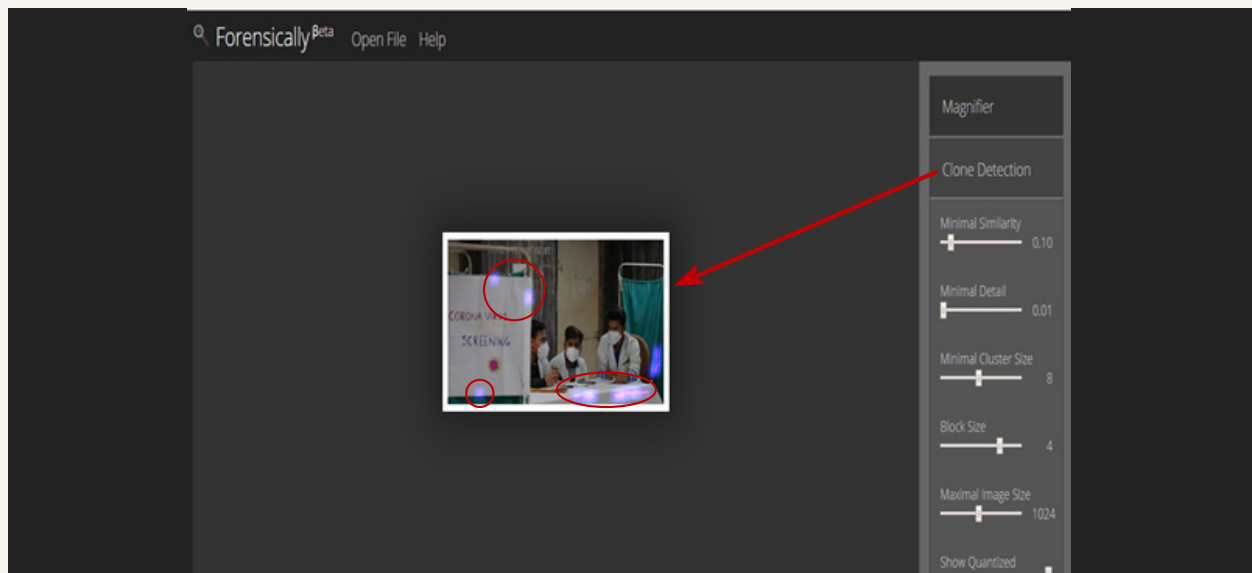
EXIF Analysis Table

Step 4:

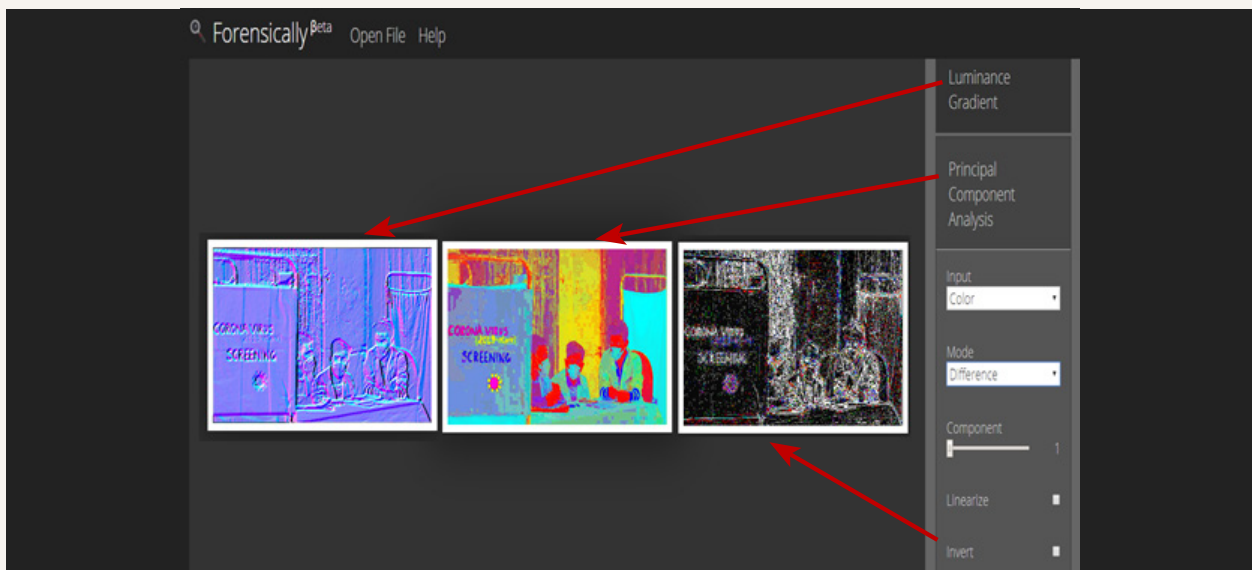
After uploading the target image on to the website <https://29a.ch/photo-forensics/#clone-detection>, etc., the following **Clone detection, Error level analysis, Noise analysis, Hex view, String extraction and Thumbnail**, details, etc., will be available to the IO.



Target image magnifying and blur removing procedure



Target image, clone objects detection procedure



Target image luminance, component and noise analysis procedure

Table 1 (8 bit)

2	2	2	5	10	10	10	10
2	2	3	7	10	10	10	10
2	3	6	10	10	10	10	10
5	7	10	10	10	10	10	10
10	10	10	10	10	10	10	10
10	10	10	10	10	10	10	10
10	10	10	10	10	10	10	10
10	10	10	10	10	10	10	10

Structure

- SOI
- APP1
- APP9

Target image structure analysis procedure

Step 5:

After uploading the target image on to the <https://www.onlinehexeditor.com/> website or any other hex analysis verification websites/ tool, the following unique **signature analysis results**, will be found by the IO.

files

IMG_20200218_171052.jpg

open file

```

00 01 02 03 04 05 06 07 08 09 0a 0b 0c 0d 0e 0f
0000000000 ff d8 ff e1 6e cb 45 78 69 66 00 00 4d 4d 00 2a
0000000010 00 00 00 08 00 0f 01 00 00 03 00 00 01 10 40
0000000020 00 00 01 01 00 03 00 00 01 0c 30 00 00 01 02
0000000030 00 03 00 00 00 03 00 00 00 f6 01 0f 00 02 00 00
0000000040 00 07 00 00 00 c2 01 10 00 02 00 00 00 09 00 00
0000000050 00 ca 01 12 00 03 00 00 00 01 00 01 00 00 01 1a
0000000060 00 05 00 00 00 01 00 00 00 d4 01 1b 00 05 00 00
0000000070 00 01 00 00 00 dc 01 28 00 03 00 00 00 01 00 02
0000000080 00 00 01 31 00 02 00 00 00 11 00 00 00 e4 01 32
0000000090 00 02 00 00 00 14 00 00 00 fc 02 13 00 03 00 00
00000000a0 00 01 00 01 00 00 87 69 00 04 00 00 00 01 00 00
00000000b0 01 10 88 25 00 04 00 00 00 01 00 00 03 e0 a4 0b
00000000c0 00 07 00 00 00 04 69 70 70 00 00 00 04 c2 48 55
00000000d0 41 57 45 49 00 00 43 41 4d 2d 55 4c 30 30 00 00
00000000e0 00 00 00 48 00 00 00 01 00 00 00 48 00 00 00 01
00000000f0 43 41 4d 2d 55 4c 30 30 43 36 37 35 42 31 38 33
0000000100 00 00 00 08 00 08 00 08 32 30 32 30 3a 30 32 3a
0000000110 31 38 20 31 37 3a 31 30 3a 35 33 00 00 2a 01 0d
0000000120 00 07 00 00 00 00 00 00 00 82 9a 00 05 00 00
0000000130 00 01 00 00 03 2e 82 9d 00 05 00 00 01 00 00
0000000140 03 72 88 22 00 03 00 00 00 01 00 02 00 00 88 27
0000000150 00 03 00 00 00 01 04 56 00 00 90 00 00 07 00 00
0000000160 00 04 30 32 31 30 90 03 00 02 00 00 00 14 00 00
0000000170 03 82 90 04 00 02 00 00 00 14 00 00 03 96 91 01
    
```

structure view search checksum

.jpg, .jpeg load

data offset: 0x0=0

hex₈ 0xff

int₈ -1

int₁₆ -40

int₃₂ -4294901800

int₆₄ -18446744073709

uint₈ 255

uint₁₆ 65496

uint₃₂ 65496

uint₆₄ 65496

float

double

big endian

File signature details

File Type	Header		Footer
PNG	1	89 50 4E 47 0D 0A	49 45 4E 44
	2	1A 0A	-
	3	89 50 4E 47	-
	4	89 50 4E 47 0D 0A 1A 0A 00 00 00 0D	-
	5	49 48 44 52	-
JPG	1	FF D8 FF	FF D9
	2	FF D8 FF E0	FF D9
	3	FF D8 FF E0 00 10	-
	4	FF D8 FF E1 4E D8	-
	5	45 78 69 66 00 00 49 49	-
GIF	1	00 00 3B	47 49 46 38 39 61
	2	47 49 46 38	00 3B
	3	47 49 46 38 39 61	00 00 3B
	4	47 49 46	-
BMP	1	42 4D	
	2	FF FF 00 01 64 00	
	3	00 00 03 00	
	4	02 00 00 00	
	5	42 41	

Indicative file signature IDs

This table will help the IOs in identifying whether the image is original, morphed or animated, by cross verifying the file signatures

Step 6:


If the image is fabricated, morphed or animated or viral/trending, the Investigating Officer may use reverse image searching techniques for finding original uploading source URLs. These websites (**<https://reverse.photos/>**, **<https://tineye.com/>**, etc.) may provide search by image options instead of string searching. This **Reverse Image Search** technique is useful for verifying the source URLs of target photographs, WhatsApp images, Instagram, screenshots or fake news memes.

De Gafa shared a link.
February 28 at 9:42 AM

Nigerian pastor who went to China to destroy coronavirus has been rushed to the hospital

• FALSE

• OLD PICTURE



AFRICATURE.COM

Nigerian pastor who went to China to destroy coronavirus has been rushed to the hospital - Africature

584 90 Comments 2.7K Shares

Share

Crime Input

TinEye Search Technology Products About Log in

Upload, paste or enter image URL

4 results

Searched over 40.6 billion images in 0.8 seconds for 111157442_fakepastor_labelled-nc.png

Using TinEye is private. We do not save your search images. TinEye is free to use for non-commercial purposes. For business solution, learn about our technology.

Sort by best match Filter by domain/collection

bbc.com
news/world-africa-51710617 - First found on Mar 05, 2020
Filename: _111157442_fakepastor_labelled-nc.png (976x976, 578.6 KB)

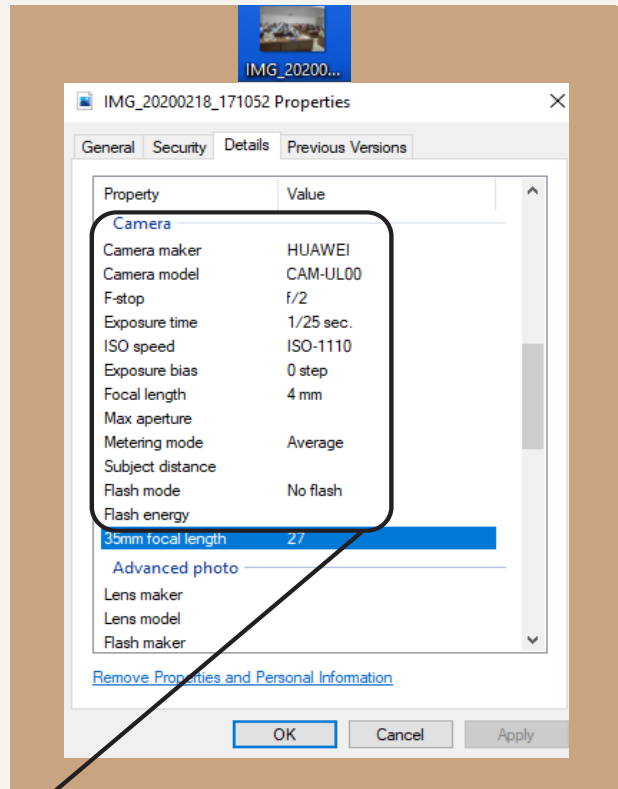
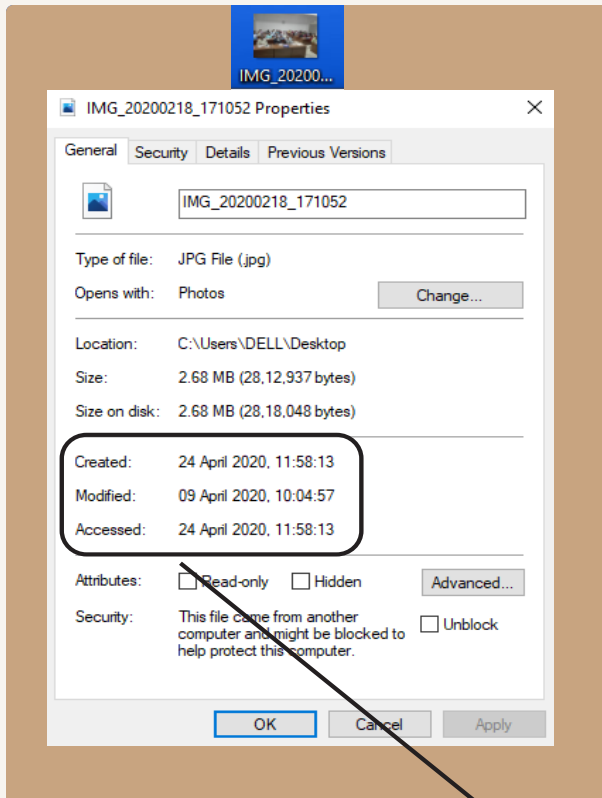
bbc.co.uk
news/world-africa-51710617 - First found on Mar 06, 2020
Filename: _111157442_fakepastor_labelled-nc.png (976x976, 578.6 KB)

theinfo.ng
2017/05/veteran-actor-adesany... - First found on Jul 13, 2018

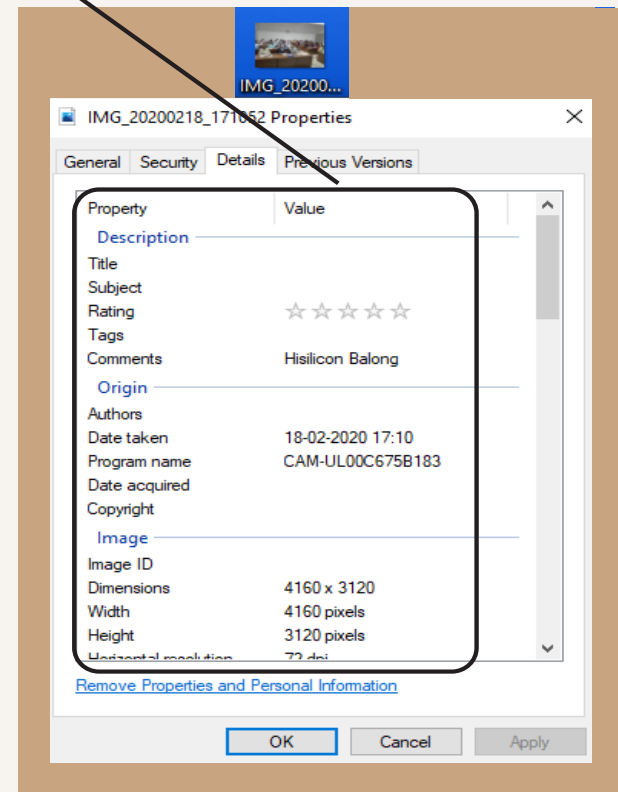
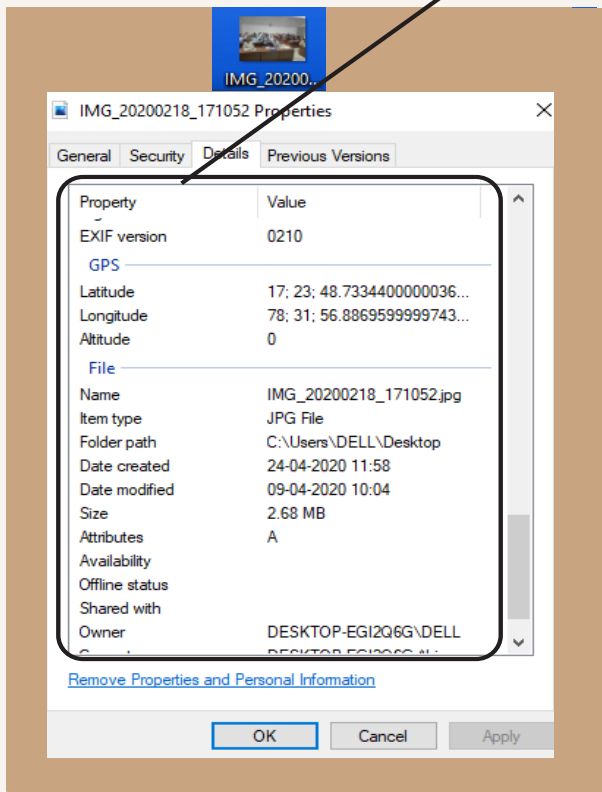
Adobe Stock Limited time offer: Get 10 free Adobe Stock images.

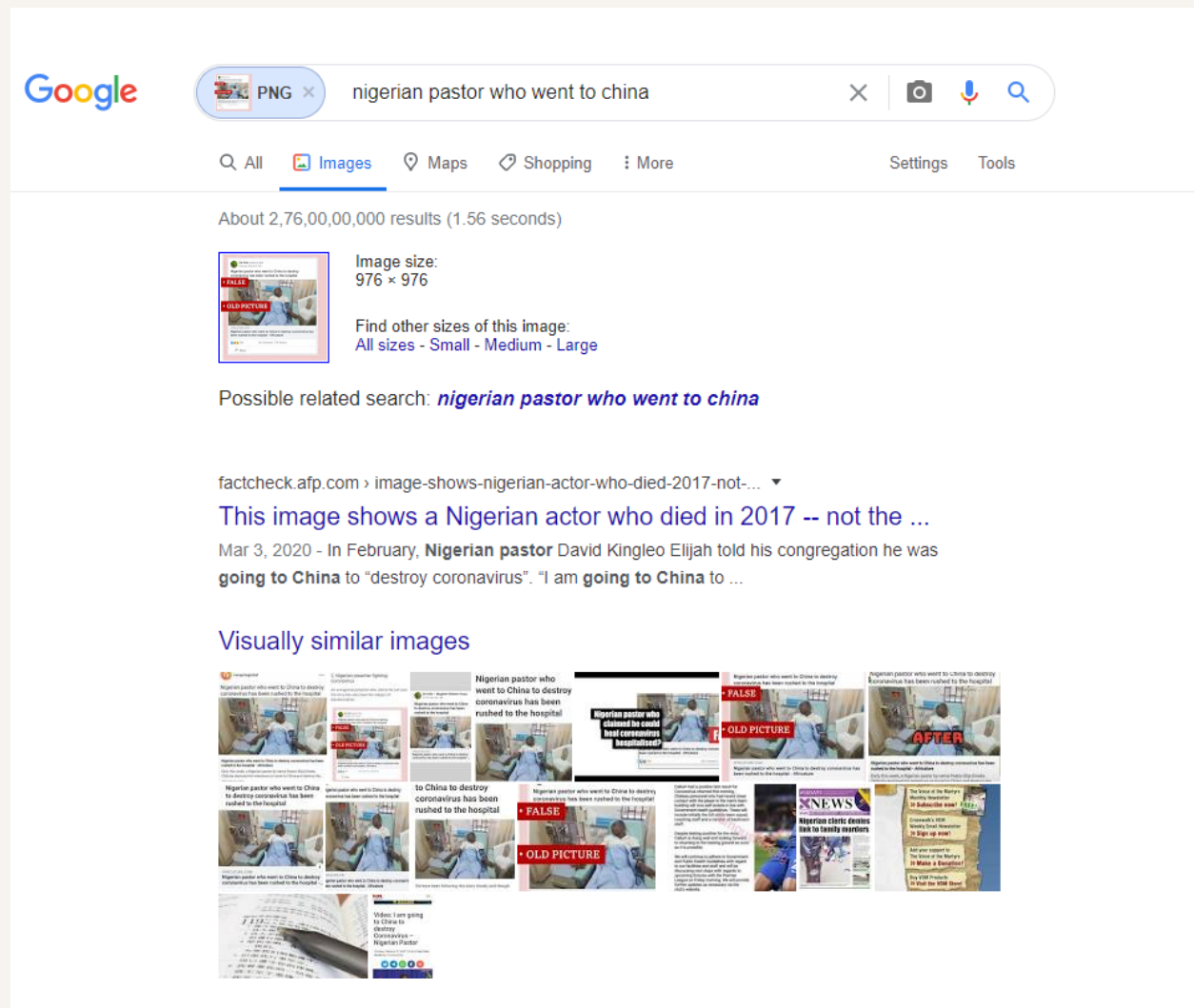
Indicative reverse image output: IO may analyze the crime output with *CAM procedure

*CAM - File **Creation, Access, Modified** information



Analyzing the CAM, EXIF and other File Property Details





Indicative reverse image output by using *Google Power Search Command Methods

Note: Google Power Search Command table may help the Investigating Officer to spot the fake news and disinformation related data with the help of the following commands

*Google Power Search Command	Working Procedure	Example
"_____"	To search for an exact phrase	"Delhi-Corona" "to be or not to be"
allintitle:	Looks for all search words in the <i>title field</i> (usually seen in the blue bar at the top of user system screen)	allintitle: Delhi allintitle:"Delhi Locations"
site:	To eliminate or require certain types of sites by their <i>domain name</i>	"Delhi History" – Delhicity.gov.in (eliminates commercial sites) "Lockdown" +site:edu (requires Indian lockdown info sites)

*Google Power Search Command	Working Procedure	Example
inurl:	To search words in the URL. Allows you to search within a specific web site	"Corona", inurl:"Corona" (Searches for specific "Corona" word at URL or Title)
-	to exclude a search word(s)	Literary –Physical Forensic (search engines - Google)
+	to require a search word(s)	+Delhi Police (search engines – Google)
~	Tilde symbol searches for variations (synonyms)	~help finds synonyms for help: faq, guide, tutorial, tips
*	A wild card, will stand for punctuation (which Google ignores) or will do a proximity search replacing up to 5 words	archetypal*mythopoeic = archetypal/mythopoeic "myths*man" = myths of man, myths about man, myths inform man...
OR	Looks for any words in your search not all (good for searching synonyms)	"New historicism" OR historicism OR literary
ADDITIONAL DATABASE COMMANDS		
AND	Looks for all words in your search	Delhi AND "Corona"
OR	Looks for any words in your search not all (good for searching synonyms)	"Delhi Hospitals" OR Delhi Forensic Colleges OR literary
NOT	To exclude a search word	Cyber Criminals

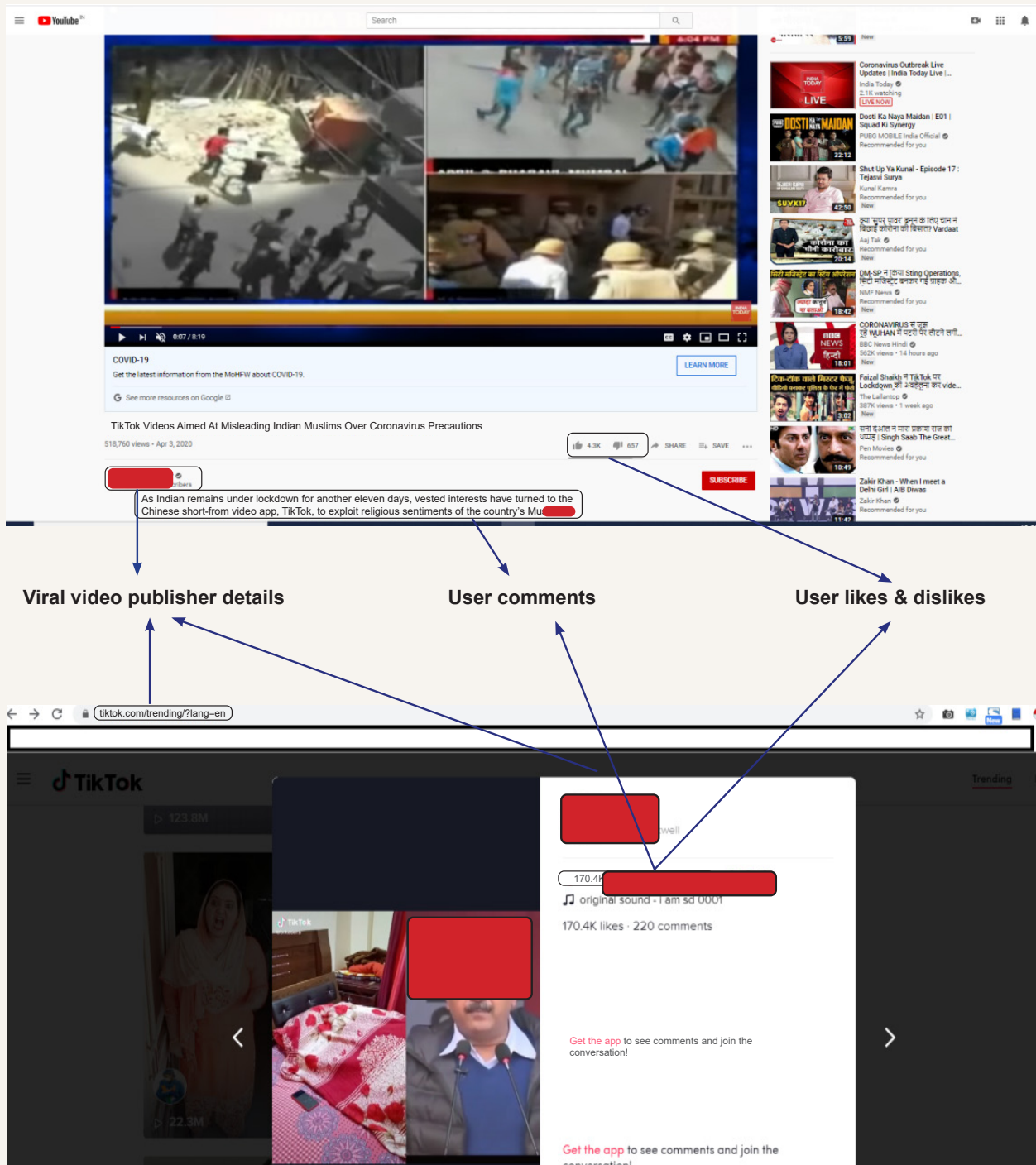
Indicative Google Power Search Commands table

▶▶ 4.3 INVESTIGATION OF FAKE NEWS RELATED VIDEOS

Step 1:

The Investigating Officer may identify the source of uploaded fake video files and URLs, download the video file from the target website or through <https://en.savefrom.net/10/>, and calculate the hash value and keep it as evidence and for admissibility.

E.g. <https://www.youtube.com/watch?v=mG2WBtdbJiE>



Example- Defamatory Video

Hashing MD5: OBDB9CE7AD51CFAB08BA6BDF16DF0206

Hashing SHA1: EAE9E11F73D794CB390B9F1960718F491509CC94

Hashing SHA2: E39C85158CEE9ACFD0F13642299AA1EEE5DB616AA3B53C739012D38BD19FEC7C

Step 2:

IO should collect fake or disinformation videos of published URLs, upload user credentials and comments for investigation.

ImgOps
image operations meta-tool

Image URL: start
example upload a file

Paste an image or drag and drop a file onto this page. new!

ImgOps is a meta-tool: 1.) Enter an image. 2.) Choose an online image utility.

It works best with our bookmarklet ([ImgOps](#)), or you can enter a URL above. [what is a bookmarklet](#)

You can also insert <http://imgops.com/> in front of any image URL.

Supported Operations (hover over links for details)

- **host:** [beeimg](#) · [imgur](#)
- **reverse / similar:** [google](#) · [bing](#) · [tineye](#) · [reddit](#) · [yandex](#) · [baidu](#) · [so.com](#) · [sogou](#)
- **hidden data:** [exif](#) / [xmp](#) / [gps](#) · [metapicz](#) · [http headers](#) · [httpview](#) · [error level](#)
- **edit:** [pixlr](#) · [\[express\]](#) · [picmonkey](#) · [lunapic](#) · [annotate](#)
- **animated GIFs:** [add sound](#) · [gif-explode](#) · [crop / optimize / split](#)
- **effects:** [meme text](#) · [ancient](#) · [ASCII](#)
- **special:** [optimize](#) · [waifu2x](#) · [tester](#) · [what the font](#) · [what font is](#) · [OCR](#) · [QR de-code](#) · [color palette](#) · [palette2](#) · [css borders](#)
- **specialized reverse:** [karmadecay \(reddit\)](#) · [iqdb \(anime\)](#) · [saucenao \(anime+\)](#) · [ascii2d \(anime2\)](#) · [tracemoe \(anime\)](#) · [pictriv \(faces\)](#)
- **convert:** [base 64](#) · [HTML](#) · [JPG](#) · [GIF](#) · [PNG](#) · [BMP](#) · [PDF](#) · [TIFF](#) · [EPS](#) · [HDR/EXR](#)

Target Video source collecting procedure through OSINT websites

Step 3:

If the fake video source is Youtube and if it is circulated across the social media, IO should use <https://citizenevidence.amnestyusa.org/>, website for collecting Video ID, Upload Date, Upload Time and Thumbnails, etc.



Youtube DataViewer

TikTok Videos Aimed At Misleading Indian Muslims Over Coronavirus Precautions

As India remains under lockdown for another eleven days, vested interests have turned to the Chinese short-form video app, TikTok, to exploit religious sentiments of the country's Muslim population to discourage it from practising social distancing and mask-wearing as part of Covid-19 measures. An investigation by a Delhi-based digital lab, Voyager Infosec, into more than 30,000 clips circulated this week suggests a set pattern of targeted disinformation campaign aimed at the Indian Muslim community. The videos show young boys, teens and adults playing Muslims, who discourage fellow Muslims from exercising precautions. These TikTok conversations are laced with religious overtones. Subscribe to India Today for NEW VIDEOS EVERY DAY and make sure to enable Push Notifications so you'll never miss a new video.

All you need to do is PRESS THE BELL ICON next to the Subscribe button! India Today TV is India's leading English News Channel. Indian Today You Tube channel offers latest news videos on Politics, Business, Cricket, Bollywood, Lifestyle, Auto, Technology, Travel, Entertainment and a lot more. Stay tuned for latest updates and in-depth analysis of news from India and around the world! Download Mobile App from Indian's No.1 News Video Publisher : <https://indiatoday.app.link/zKoSVVDrnP>
Follow us : Official website: <https://www.indiatoday.in/> Twitter: <https://twitter.com/IndiaToday> Facebook: <https://www.facebook.com/IndiaToday>

Video ID: mG2WBtdbJiE
Upload Date (YYYY/MM/DD): 2020-04-03
Upload Time (UTC): 14:29:59 (convert to local time)

Thumbnails:



Target Video Timestamp & Thumbnails collecting procedure

Step 4:

If the IO wants to collect similar videos with **Geo-Tagging** and **Geo-Fencing** procedures, he may use <https://mattw.io/youtube-geofind/location>, website for collecting geo-location, based on fake or viral video content across the social media.



By Location

Update January 16th! Every video result now has a link to my new [youtube-metadata](#) project to give all possible details from the YouTube API about that video and its author. Check it out!

Location
 Drag and drop the green point or type desired location and hit enter.

Radius
 YouTube May return results close yet outside the specific search radius.

Keywords
 Keywords as if actually searching YouTube.

Location based fake news parsing procedure

Geotags

[Export CSV \(All\)](#)

Show entries

Search:

	<p>Cómo afecta el corona virus en estados unidos</p> <p>B BIG LUIGUI</p> <p>El corona virus está afectando tanto en la economía como en la sociedad este video indica cómo afecta aún latino en estados unidos</p> <p>2020-04-05T22:09:43.000Z</p> <p>Open in map</p> <p>View metadata</p>
	<p>Hood skunk coming out in NJ after Corona virus.</p> <p>Eazy_Lifeb TV</p> <p>2020-04-03T14:34:20.000Z</p> <p>Open in map</p> <p>View metadata</p>
	<p>Corona=Empty NYC #12</p> <p>Mark Herbert</p> <p>Final Loop of 3/29/2020. From NJ Turnpike Casciano Bridge to Route 440 in Bayonne</p> <p>2020-04-02T18:16:27.000Z</p> <p>Open in map</p> <p>View metadata</p>
	<p>El final del corona virus</p> <p>T Te toco y Te quedas</p> <p>Un final épico de esta terrible pandemia cuando todo esto termine salimos de esta cuarentena y enfermedad 🥰😭</p> <p>2020-03-30T03:38:45.000Z</p> <p>Open in map</p> <p>View metadata</p>

Similar fake video identifying procedure

5.0 LEGAL PROVISIONS

The following table is intended for Investigating Officers to understand the legal provisions to be applied while presenting fake news and disinformation related cases in a court of law:

Fake News & Disinformation	Information Technology Act, 2008	Indian Penal Code, 1860
Cyber Defamation	<ul style="list-style-type: none"> • Sec -67 • Sec -67A • Sec -67B • Sec -72 	<ul style="list-style-type: none"> • Sec -499 • Sec -500 • Sec -292 • Sec -294 • Sec -506 • Sec -509
Identity Theft	<ul style="list-style-type: none"> • Sec -66C • Sec -43 • Sec -66 • Sec -66B • Sec -66E • Sec -72 • Sec -72A • Sec -85 	<ul style="list-style-type: none"> • Sec -464 • Sec -465 • Sec -468 • Sec -471 • Sec -474 • Sec -477A • Sec -120B • Sec -406
Impersonation	<ul style="list-style-type: none"> • Sec -66D • Sec -66C • Sec -43 • Sec -66 • Sec -66B • Sec -67 • Sec -67A • Sec -67B 	<ul style="list-style-type: none"> • Sec -419 • Sec -417 • Sec -426 • Sec -468 • Sec -469 • Sec -471 • Sec -474 • Sec -354A • Sec -500 • Sec -509
Trolling	<ul style="list-style-type: none"> • Sec -66E • Sec -67 • Sec -67A • Sec -67B 	<ul style="list-style-type: none"> • Sec -500 • Sec -354A • Sec -354C • Sec -354D • Sec -509 • Sec -504 • Sec -505 • Sec -506 • Sec -507 • Sec -153A • Sec -153B • Sec -295A • Sec -292 • Sec -120B

6.0

INVESTIGATIVE SOURCES

The following table may help the Investigating Officers in investigating and curbing fake news and disinformation related crimes. The following websites are indicative in nature.

Investigative Sources	Suggested Investigative Websites Name
Fake News Reporting Portal	https://cybercrime.gov.in/
Fake News Spotting & Fact Checking Websites	https://pib.gov.in/factcheck.aspx
	https://www.factcheck.org/
	https://reporterslab.org/fact-checking/
	https://factly.in/category/fake-news/
	https://www.boomlive.in/about-us/
	https://factcheck.telangana.gov.in/
	https://www.altnews.in/
Social Media Related Fake News Investigation Asst. Websites	https://lookup-id.com/
	https://stalkscan.com/
	https://citizenevidence.amnestyusa.org/
	https://youtube.github.io/geo-search-tool/search.html
	https://twitter.com/search-advanced
	https://www.facebook.com/altnews.in
	https://twitter.com/AltNews
https://www.metadata2go.com/	
Fake News Investigative Web Plugins	Fake news debunker by InVID & WeVerify https://chrome.google.com/webstore/detail/fake-news-debunker-by-inv/mhccpoafgdgbhnhjfhkcmgknndkeenfhe
	RevEye Reverse Image Search https://chrome.google.com/webstore/detail/reveye-reverse-image-sear/keaacjhehbbapnphnmpiklalfhelgf
	EXIF Viewer https://chrome.google.com/webstore/detail/exif-viewer/mmbhfeiddhndihjeganjggkmjapkfmm
	Send to Exif Viewer https://chrome.google.com/webstore/detail/send-to-exif-viewer/gogiienhpmfmodmlnhdljokkjapfck
	Take Webpage Screenshots Entirely - FireShot https://chrome.google.com/webstore/detail/take-webpage-screenshots/mcbpblocmgmfnppndjkmjgjaogfceg

7.0 CONCLUSION

The extensive spread of fake news has the potential to gravely impact individuals as well as the society at large. Therefore, fake news detection in cyber space has become an important issue for the LEAs. The step by step procedure will assist LEAs in spotting and investigating fake news in a systematic manner. It will also help in effective prosecution of offenders involved in such mischievous acts.




8.0


REFERENCES

1. https://www.mha.gov.in/sites/default/files/PR_MHAWritestoStatesUTs_02042020.pdf
2. <https://gijn.org/six-fake-news-techniques-and-simple-tools-to-vet-them/>
3. <https://www.ogilvy.com/feed/5-types-of-fake-news-and-why-they-matter/>
4. <https://pib.gov.in/factcheck.aspx>
5. <https://www.ifla.org/publications/node/11174>
6. <https://cyber-cops.com/blog/how-to-spot-real-and-fake-stories-in-india-2020>
7. Fake News Detection on Social Media: A Data Mining Perspective -by Kai Shuy
8. Advisory regarding fake news and rumours related to Covid-19 pandemic
-by MH-Cyber, Maharashtra

9.0 FEW MORE EXAMPLES OF FAKE NEWS AND FACTS



Claim



Pm mask Yojna
pmmaskyojna.blogspot.com

FAKE

करोना वायरस के बढ़ते प्रकोप से हमारे देश में भी नरेंद्र मोदी जी ने सवच्च भारत के अंतर्गत सभी भर्तीओं को कोरोना वायरस मुक्त माक्स फ्री में देने का फैसला किया है आप भी निचे लिंक पर क्लिक करके अपना फ्री माक्स ऑर्डर करके पहनिए और सवच्च भारत का हिस्सा बनिऐ।

<https://www.narendrmodiawasyojna.in/?m=1>


Fact

There is **no** scheme called PM Mask Yojana under Central Government

#PIBFactCheck


To check if any Central Govt. related Policy/Schemes is a Fact or not.

Contact Us @PIBFactCheck 8799711259 /PIBFactCheck pibfactcheck@gmail.com


दूरसंचार विभाग द्वारा ऐसा कोई ऐलान नहीं किया गया है कृप्या जालसाजों से दूर रहें

Forwarded

भारत दूरसंचार



INDIA TELECOM

Free Covid-19 Recharge offer
फ्री इंटरनेट रिचार्ज उपलब्ध है

Covid-19: सभी मोबाइल कंपनियों का एलान

कोरोना महामारी के कारण 17 मई 2020 तक कड़वाउन के वजह से मोबाइल कंपनियों ने सभी मोबाइल ग्राहकों को फ्री इंटरनेट देने का ऐलान किया है ताकि आप घर बैठे अपना काम कर सकें।

कृपया घर में रहकर कोरोना वायरस (Covid-19) को फैलने से रोकें।

नोट:- नीचे दी गई लिंक पर क्लिक करके अपना फ्री इंटरनेट प्राप्त करें

<https://telecom.covid19offer.live>

कृपया ध्यान दे: यह ऑफर केवल 17 मई 2020 तक ही सिमित है!

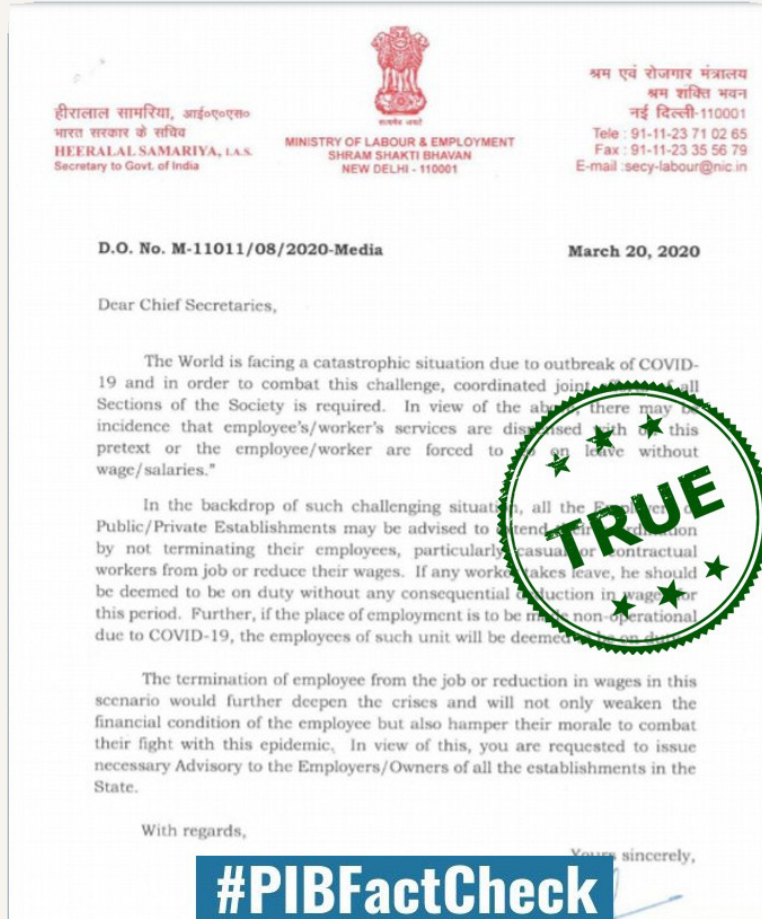
12:36 pm ✓

यह जाँचने के लिए कि क्या कोई केंद्रीय सरकार से संबंधित नीति /योजना, तथ्य है या नहीं हमें संपर्क करें @PIBFactCheck 8799711259 /PIBFactCheck pibfactcheck@gmail.com



Found True!

This circular has been issued by Ministry of Labour and Employment.



#PIBFactCheck

To check if any Central Govt. related Policy/Schemes is a Fact or not.

Contact Us @PIBFactCheck 8799711259 /PIBFactCheck pibfactcheck@gmail.com



Beware of Fake 'Registration Form' links

Always visit the official Embassy Website to Register.

USA rescue flight Form: <https://forms.gle/EcDvEcJ5S5er3RDZA> Canada rescue flight Form: <https://forms.gle/hMqBWUBp8uzKYSge7> Australia rescue flight Form: <https://forms.gle/fw7Xds2XqRAkyuTj8> INDIA INBOUND : RESCUE FLIGHTS FROM AUSTRALIA TO INDIA : <https://forms.gle/2BJ5Ae2XgkEhMJAca> RESCUE FLIGHTS FROM USA TO INDIA : <https://forms.gle/ms95wwh2GkcmzZ8s8> Please help us reach as many people as possible to help everyone reach back their homes ASAP 🙏








#PIBFactCheck

To check if any Central Govt. related Policy/Schemes is a Fact or not.

Contact Us @PIBFactCheck 8799711259 /PIBFactCheck pibfactcheck@gmail.com



 [officialBPRDIndia](#)  [BPRDIndia](#)  [Bureau of Police Research & Development India](#)  [bprdindia](#)  [www.bprd.nic.in](#)

BUREAU OF POLICE RESEARCH AND DEVELOPMENT

Ministry of Home Affairs, Government of India
NH-8, Mahipalpur, New Delhi-110037