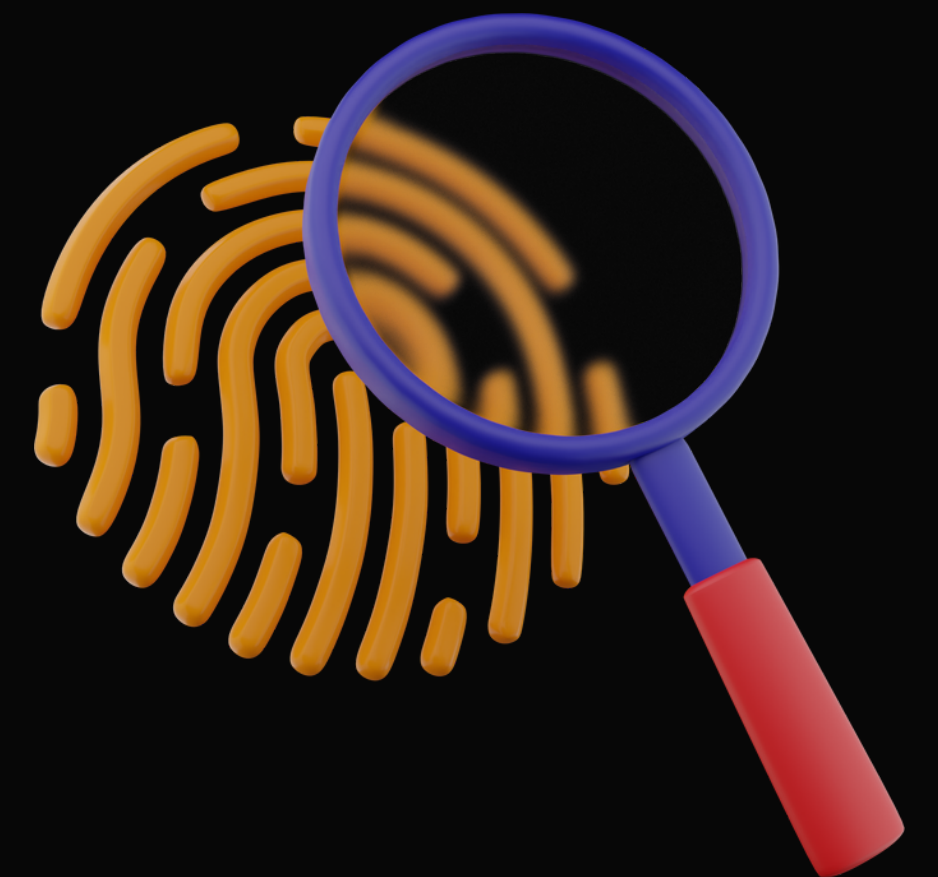


OSINT TECHNIQUES FOR INVESTIGATING PEOPLE

BY

MANJESH SHETTY, GCIH, GCFA

DATA SECURITY COUNCIL OF INDIA



OSINT

- Data is new oil, large amount of data is posted online about people, and it is up 24x7x365 days.
- Open-source intelligence (OSINT) the process of searching, gathering and analysing information collected from public sources from the Internet. Information can be collected manually or using OSINT Tools by the analyst.

OSINT can be used by for different purposes:

- Sentiment analysis for maintenance of public order
- Intelligence collection
- To trace and arrest offenders
- Gathering evidence against the accused
- Tracing of missing persons
- To verify real and fake news
- For background check

EMAIL ID

PHONE NUMBERS

SOCIAL MEDIA

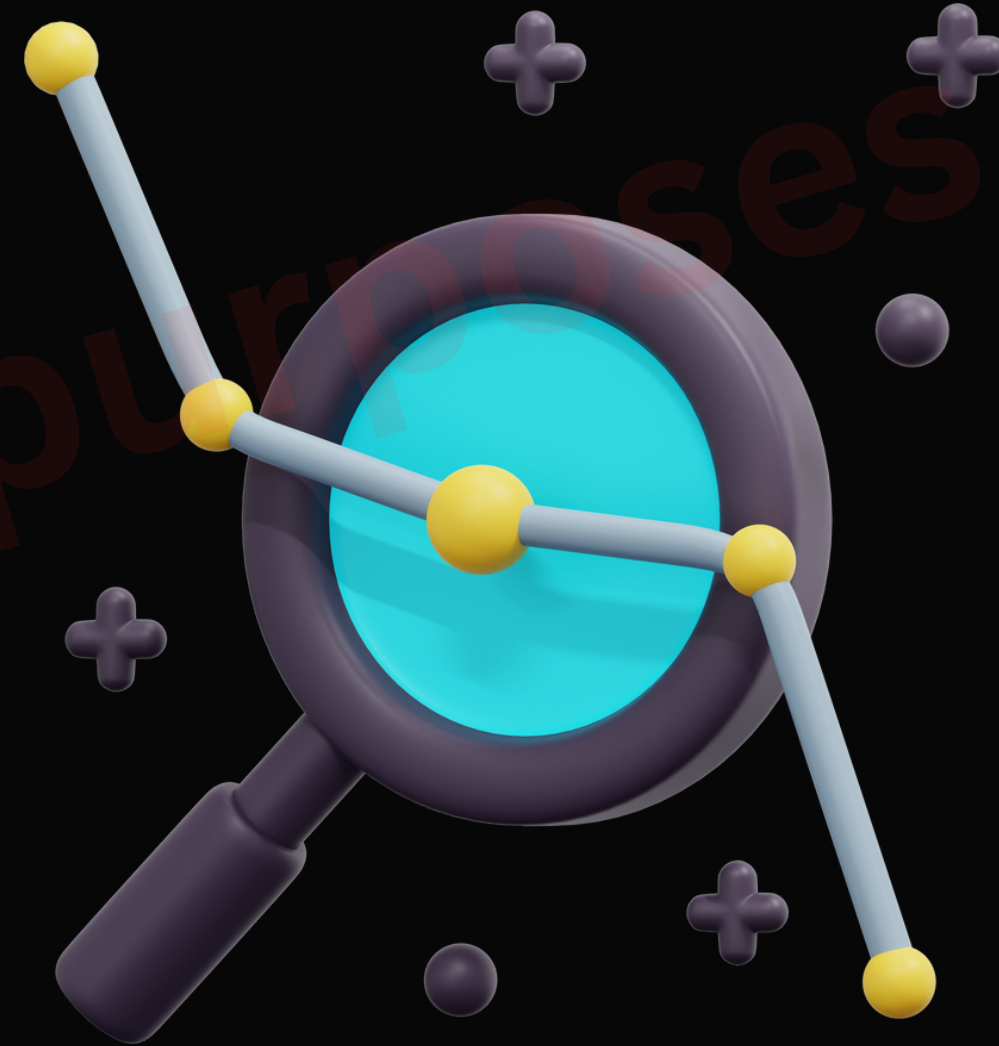
USERNAME

PHOTOS

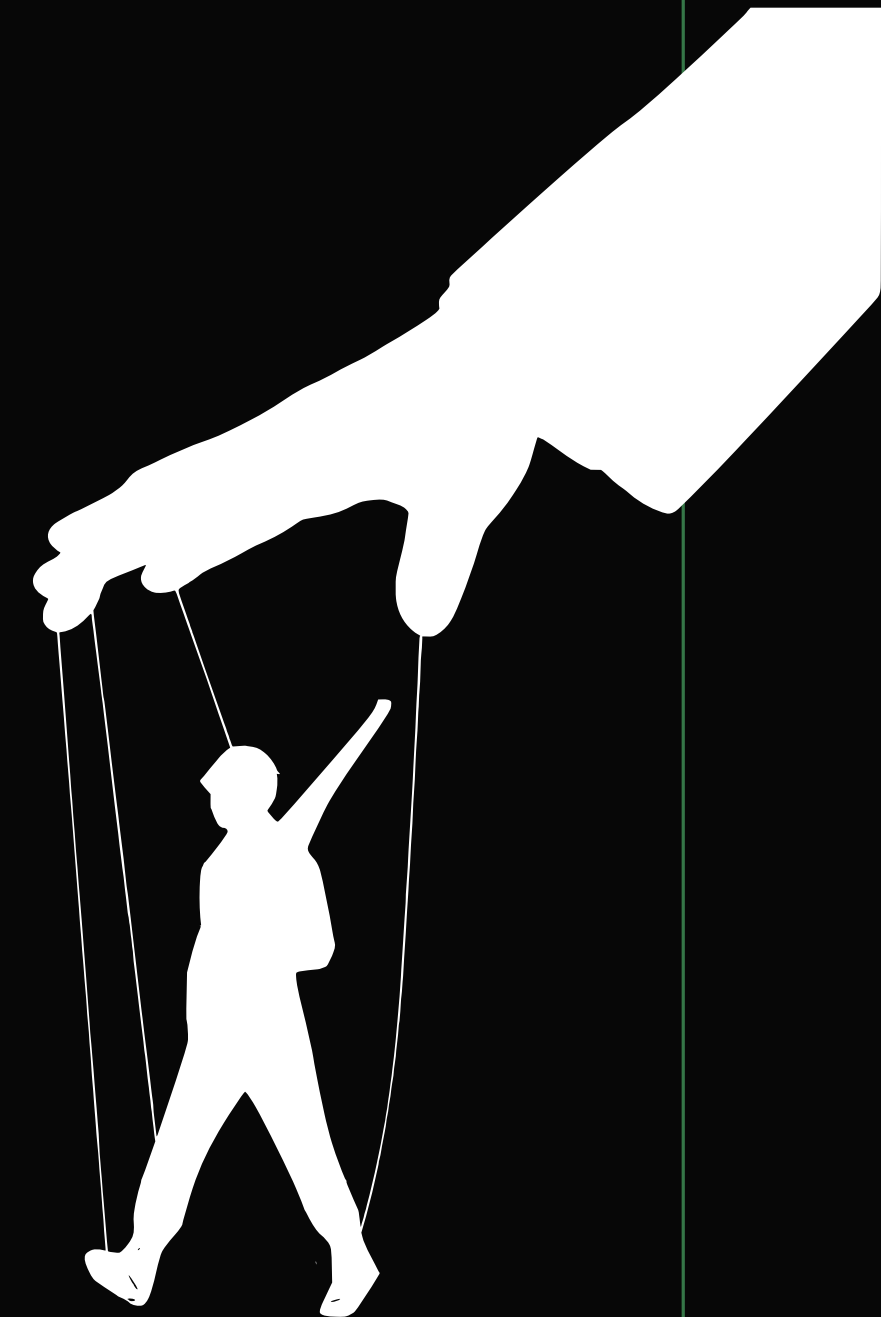
DATA LEAK

PEOPLE CENTRIC
SEARCH API

INVESTIGATION PEOPLE



Sock Puppet & **HUMINT**



Sock Puppet is fictitious identity used on a forum, marketplace, social network & other platform



This will hide your real identity, in case if you're using any OSINT Tool

Sock Puppets Account creation Tips



**HELPFUL
TIPS**

Tip #1

**Use Proton Mail or Tutanato
Mail for any Account Creation**



Tip #2

Use Textverified.com

Google Services

Whatsapp

Facebook, Instagram, twitter



Tip #3

**Use emailondeck/33mail for
work email**



EMAIL ID OSINT



Epios Tool

**Retrieve information linked to an email address,
without notifying its user**

epios.com

Note: Register using temp-mail.org

search.Ot.rocks

Retrieves information like Full Name, Phone number, IP Address,

Note: No Registration is required

SPYCLOUD

**Retrieve information like plaintext password,
phone numbers, address, location**

spycloud.com

Note: you need to register from an email ID of the target

HAVEIBEENPAWNED

**Search whether email ID is part of any
databreach**

For educational purposes only @Mozshetty

RETRIEVE PASSWORDS FROM EMAIL ID

- **LEAKPEEK**
- **BREACHDIRECTORY**

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PHONE NUMBER OSINT



TWILLIO

- **Twilio: VOIP Number Analyzer**

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CONTACT EXPLOITATION

Many applications allow (and encourage) you to locate your friends' profiles within the service by their email address or telephone number

WHITE PAGES

Find people, contact info & background checks

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SOCIAL MEDIA OSINT



FACEBOOK ,INSTAGRAM & TWITTER

Inteltechniques: Social Media OSINT Analyzer

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SNAPCHAT MAP

Snapchat Map surveillance

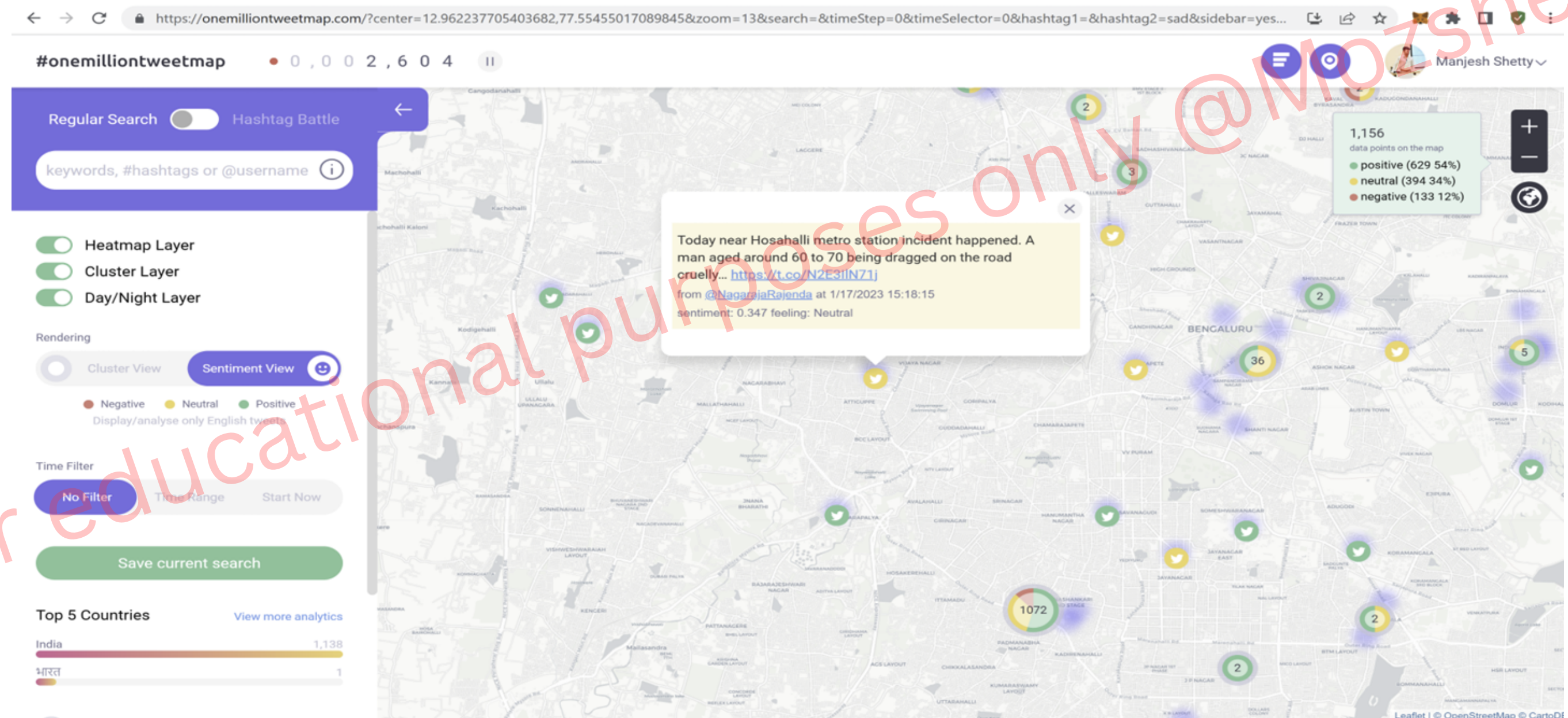
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Twitter Analysis - Spoonbill.io

The screenshot displays a vertical timeline of four profile changes on a light gray background. A vertical line on the left side of the timeline is marked with four circular icons: a location pin, an information 'i' icon, a person icon, and another information 'i' icon. Each icon corresponds to a change event. The events are as follows:

- Aug. 15, 2016, 2:13 p.m.**
@michaelbluth changed their location to:
~~Orange County, CA~~ Phoenix, AZ
- Aug. 15, 2016, 2:13 p.m.**
@georgemichaelbluth changed their bio to:
~~mr.~~ manager at the @bluthbananastand. lover of french cinema. not the singer.
- Aug. 15, 2016, 2:13 p.m.**
@tobiasfunke changed their name to:
~~Dr. Tobias Funke~~ Ms. Featherbottom
- Aug. 15, 2016, 9:36 a.m.**
@THEGobBluth changed their bio to:
~~Member of the Alliance of Magicians.~~ CEO, @thebluthcompany.
Segway enthusiast. It's not a trick, it's an illusion.

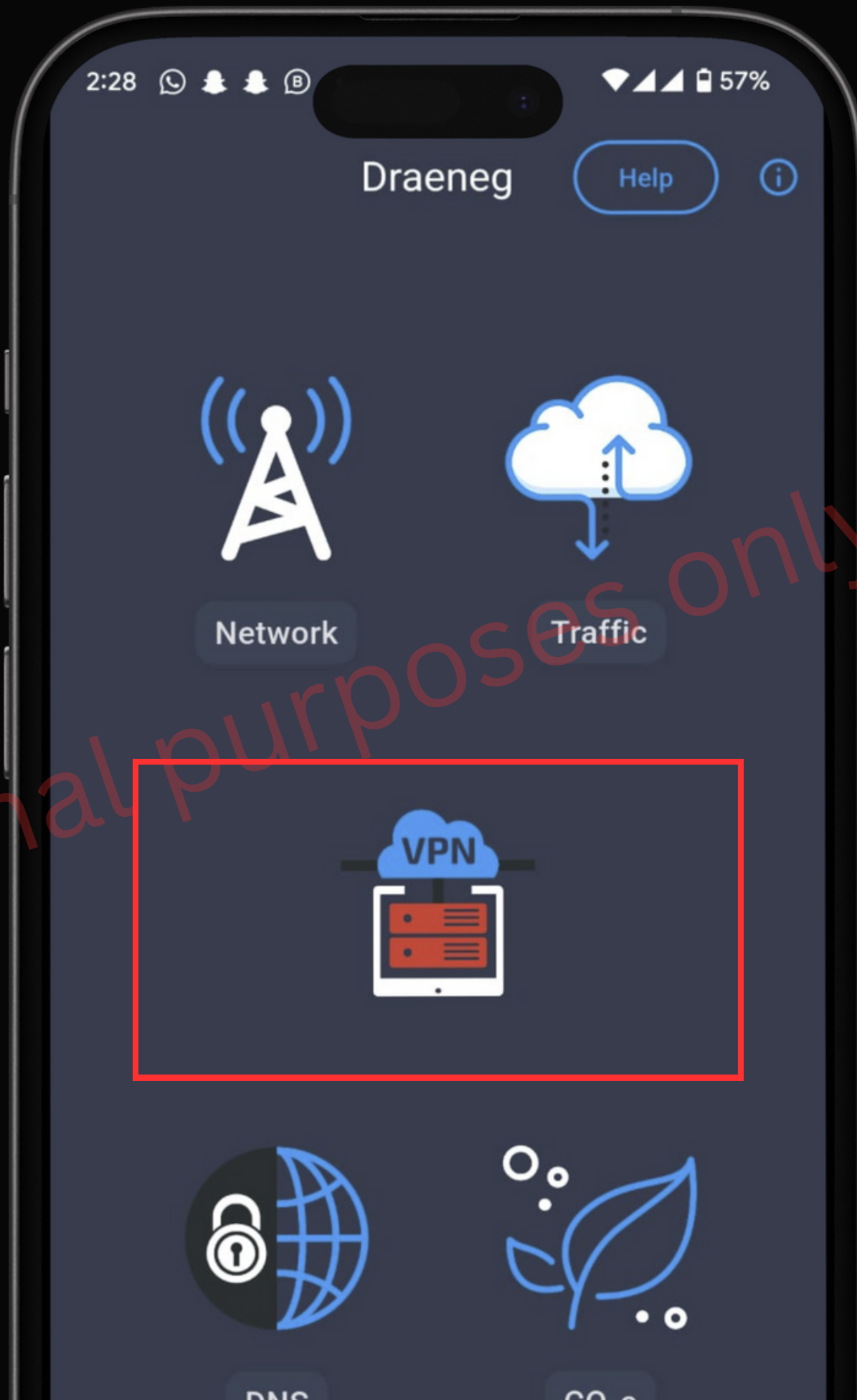
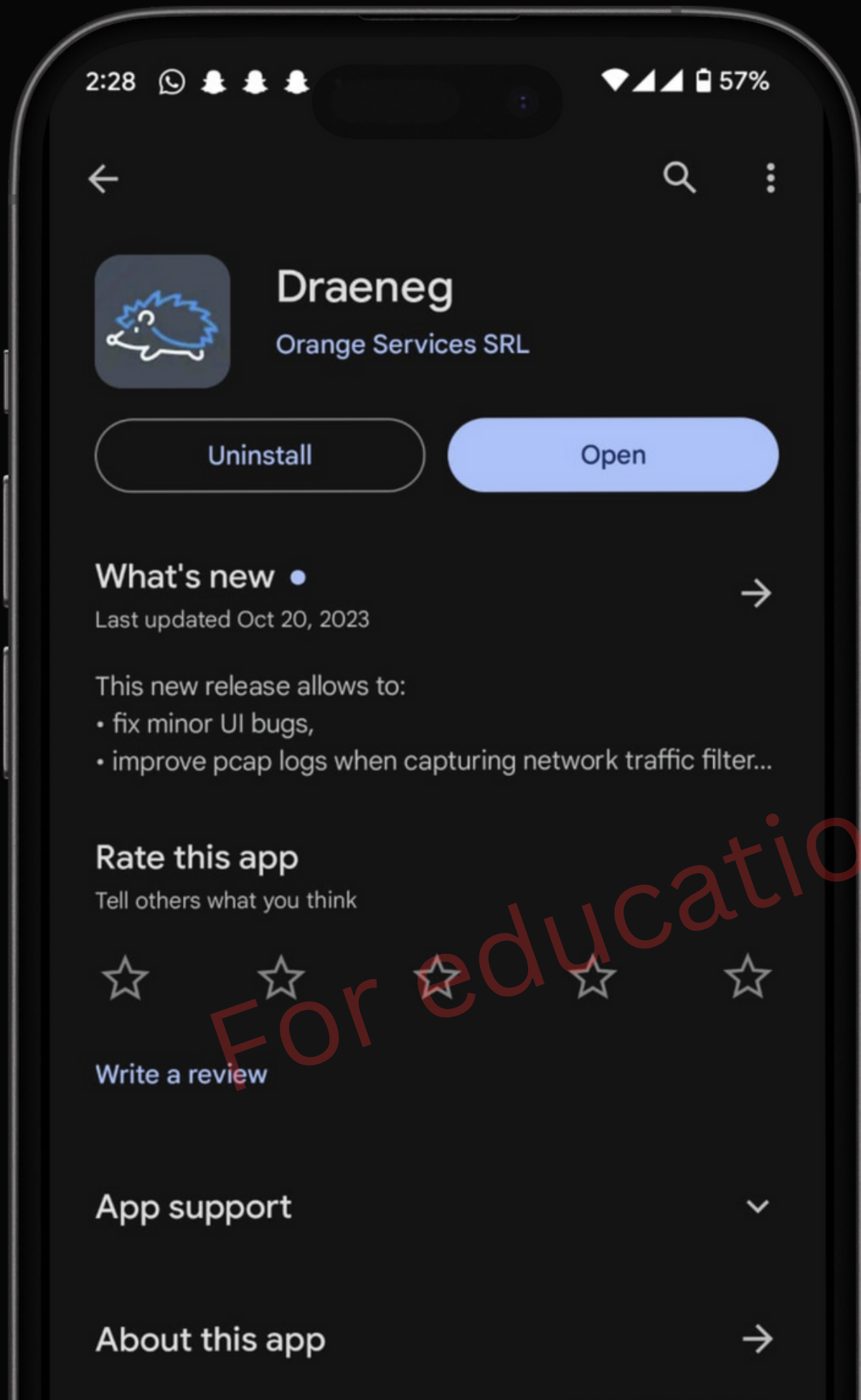
Twitter Analysis: onemilliontweetmap

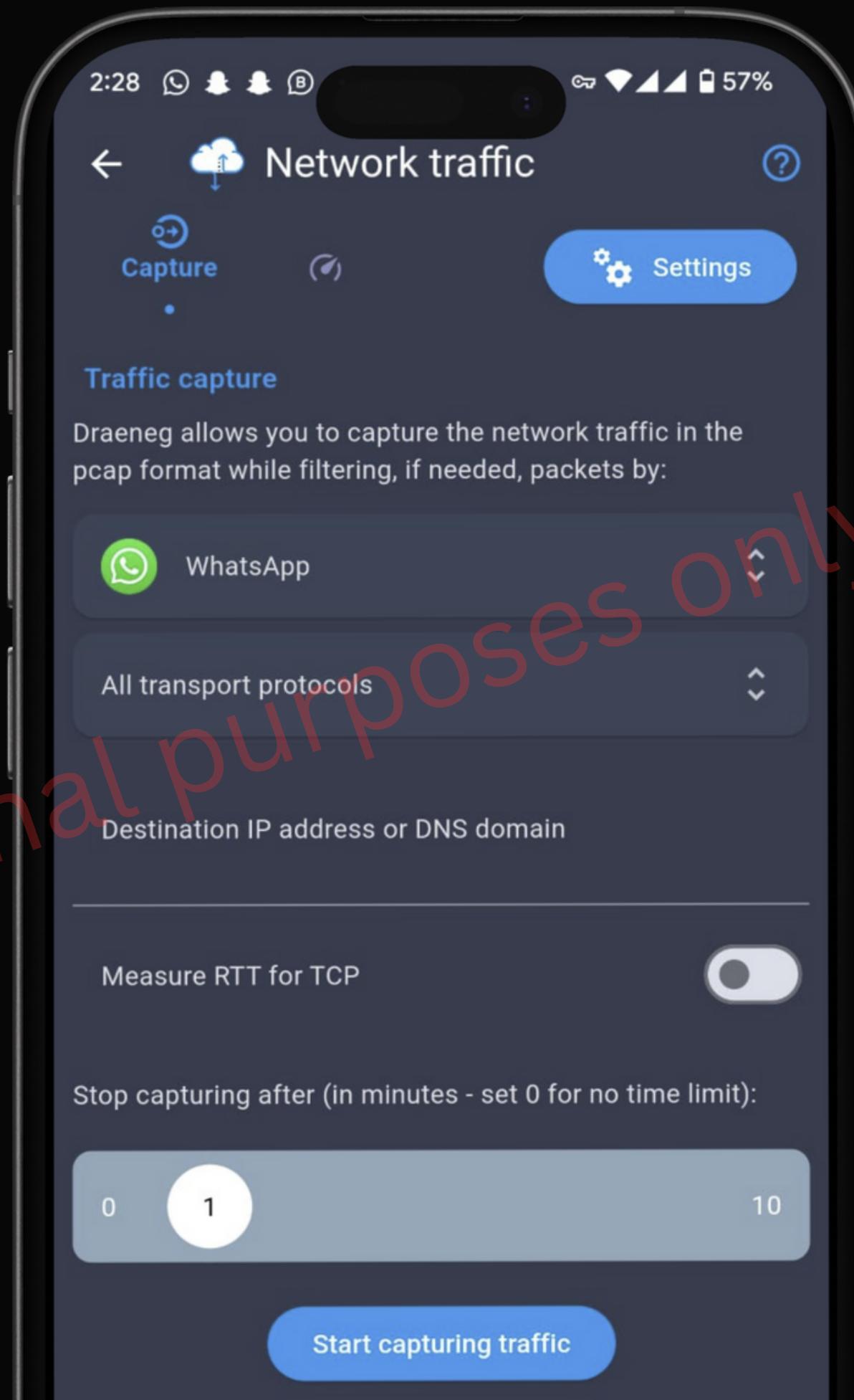
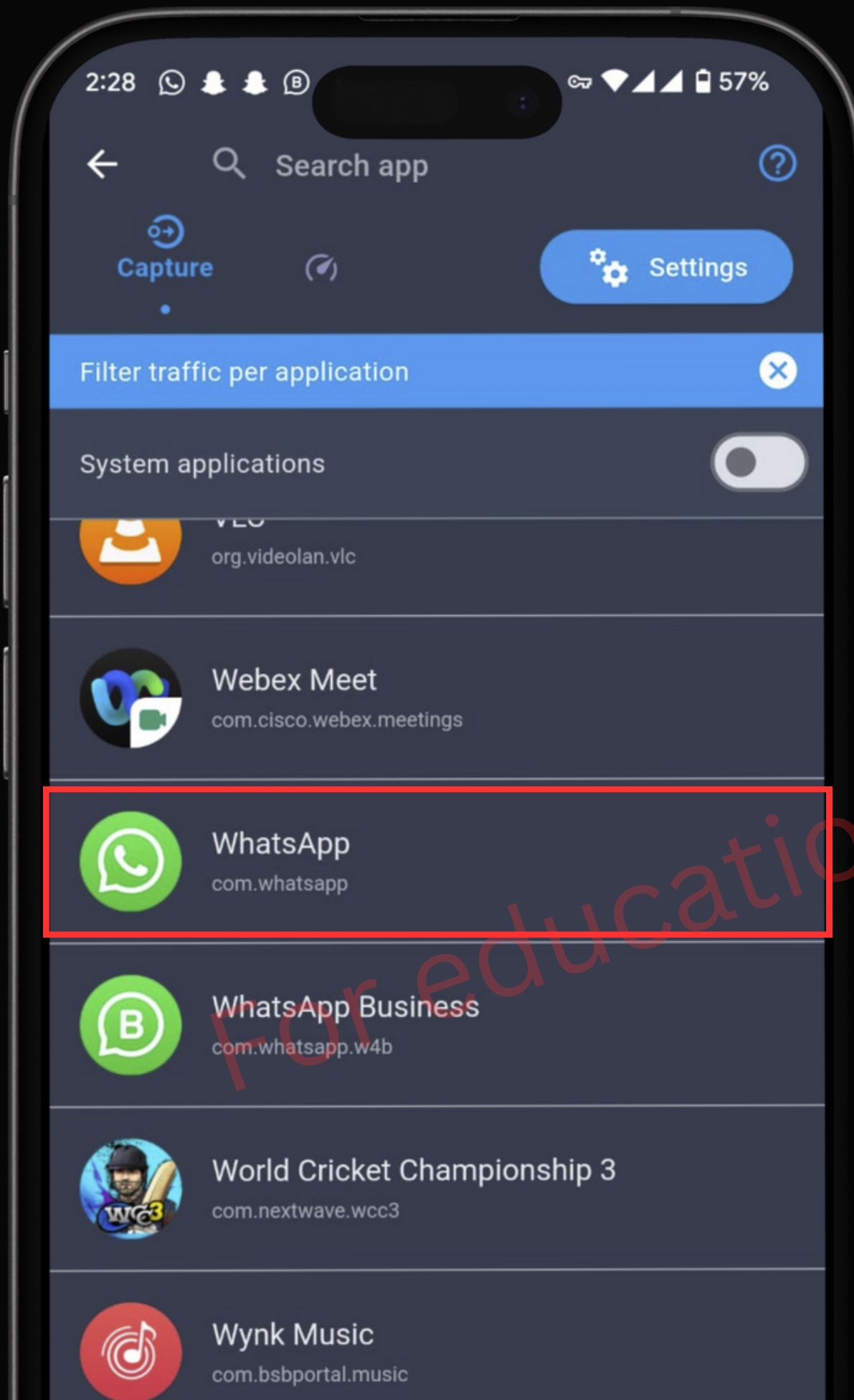


Whatsapp calls

- Grab IP Address of the whatsapp/Instagram or different social media app call users

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IP Grabber

- **Scenario 1:** One person was harassing and blackmailing a girl to do a video call with him in the telegram app.
- **Scenario 2:** Smuggler who is active only in WhatsApp with VOIP Number.

IP Grabber Tools

- Grabify.link
- IP Logger
- <https://t.me/Trackdownpeoplebot>

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2:38

4G 4

TRACK DOWN

bot

1047

✓ Victim Information

⚓ IP: [106.196.29.72](#) | Time:
2023-11-02:08:50:59

🕒 Date In Victim's Device : Thu Nov
02 2023 14:21:00 GMT+0530 (India
Standard Time)

📱 Device Information

productSub: 20030107
vendor: Apple Computer, Inc.
maxTouchPoints: 5
hardwareConcurrency: 4
cookieEnabled: true
appCodeName: Mozilla
appName: Netscape
appVersion: 5.0 (iPhone; CPU
iPhone OS 16_2 like Mac OS X)
AppleWebKit/605.1.15 (KHTML,
like Gecko) Version/16.2 Mobile/
15E148 Safari/604.1
platform: iPhone
product: Gecko
userAgent: Mozilla/5.0 (iPhone;
CPU iPhone OS 16_2 like Mac OS
X) AppleWebKit/605.1.15 (KHTML,
like Gecko) Version/16.2 Mobile/
15E148 Safari/604.1
language: en-IN
languages: en-IN
webdriver: false

2:39

4G 4

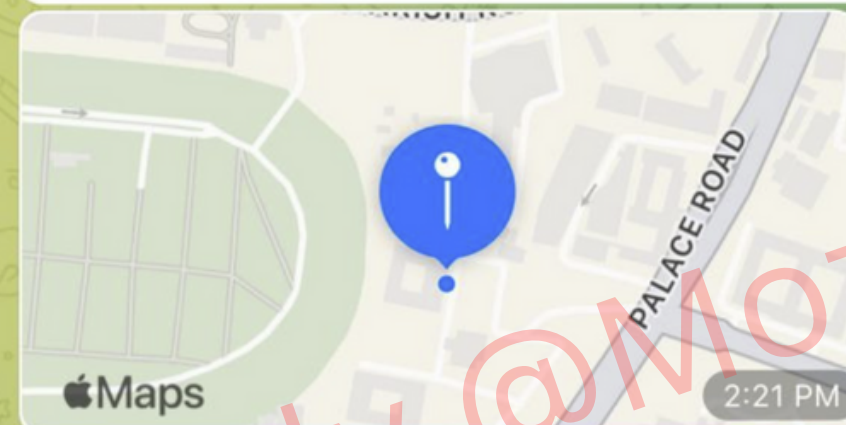
TRACK DOWN

bot

1047

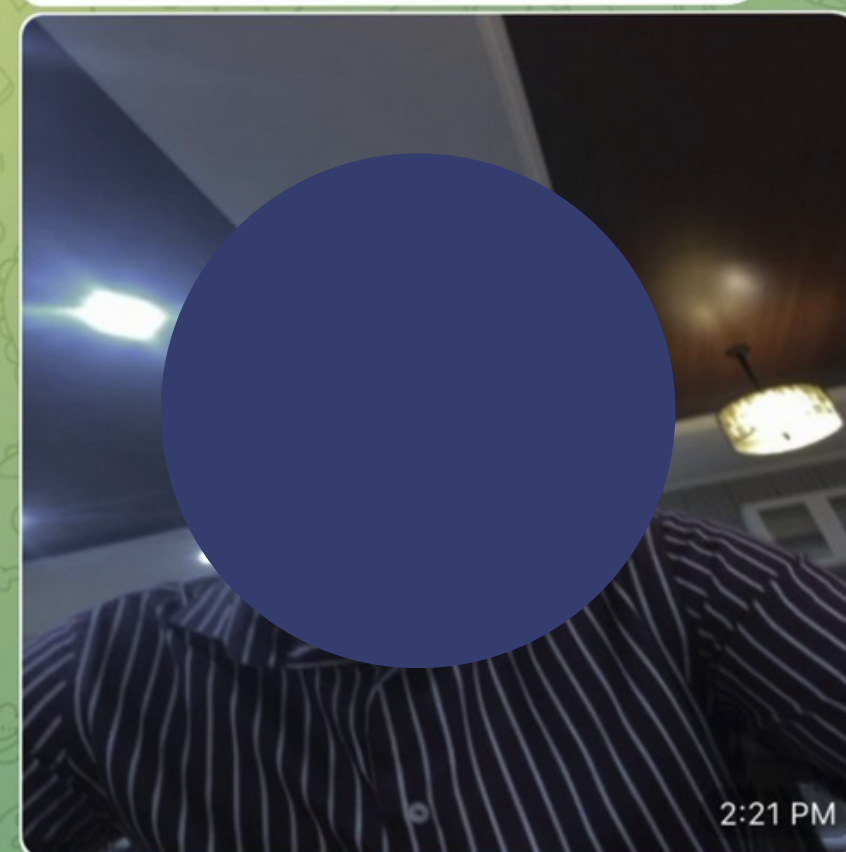
Free IP Geolocation API - lookup any IP
address

2:21 PM



Latitude: 12.981888405231722
Longitude: 77.58527619361045
Accuracy: 35 meters

2:21 PM



2:21 PM

IP Grabber - Advanced Method



Buy domain
from
Godaddy.com



Host it in
Wordpress



Monitor it
using
Wordfence
Plugin

Domain Name: Bengalurunews.com

USERNAME OSINT



USERNAME FINDER

- namecheckr.com
- [Namevine.com](https://namevine.com)

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PHOTOS OSINT



EXIF VIEWER

ONLINE TOOLS

- Extract Metadata (extractmetadata.com)
- Jeffrey's Viewer (exif.regex.info/exif.cgi)
- Exifinfo (exifinfo.org)
- Get Metadata (get-metadata.com)

OFFLINE TOOLS

- ExifTool by Phil Harvey

EXIF INFORMATION

- GPS (Lat, Long)
- Make, Model
- Owner Information
- Timestamp Information
- Thumbnail (Preview) Image

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REDDIT TOOLS

- **Reddit.com/r/picrequests:** Free Photo Enhancement and editing service
- **Reddit.com/r/whatisthisthing:** For the identification of mysterious objects

IMAGE REVERSE SEARCH

Google Reverse Image Search ([Images.google.com](https://images.google.com))

Bing Image Search (bing.com/images)

Tin Eye Rever search ([Tineye.com](https://tineye.com))

Yandex Images

Baidu Images

[PimEyes](https://pimeyes.com)

People Centric Search API

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PEOPLEDATALABS

People data" collection company offers 1,000 free queries of their premium data sets to anyone, and they accept masked email addresses such as 33mail, Anonaddy, and Simple Login.

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OSINT INVESTIGATION WITH OS-BASED FRAMEWORKS



There are 3 types of OSINT

- Passive Collection
- Semi-passive Collection
- Active Collection

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Passive Collection

This is the most used type when collecting OSINT intelligence, by default most OSINT gathering methods should use passive collection because the main aim of OSINT gathering is to collect information about the target via publicly available resources.

Semi-passive Collection

In this way, you are not implementing in-depth investigation of the target's online resources, but only investigating lightly without launching any alarm within the group you are investigating.

Active Collection

You interact directly with the system to gather intelligence about it, but the target can become aware of the reconnaissance process since the person/entity collecting information will use advanced techniques to harvest technical data about the target IT infrastructure such as accessing open ports, scanning vulnerabilities (unpatched Windows systems), scanning web server applications, and more.

CLI & Linux Based Application



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Trace Labs

VM

Tracelab.org



For educational purposes only @Mozsafety

whois

'Whois' is a widely used Internet record listing that identifies who owns a domain/IP and how to get in contact with them.

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To get 'whois' information for site, type in Linux terminal 'whois' followed by domain name

> **whois goppcsoft.com**

whois

To get detailed information about network owner of the site, first you need get IP address from hostname. In terminal windows type command '**host**', '**nslookup**' or '**dig**' followed by hostname.

> **host gopcssoft.com**

> **nslookup gopcssoft.com**

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**To get authoritative DNS server(s) for
specific domain**

> dig gopcsoft.com NS

To get mail server(s) for specific domain

> dig gopcsoft.com MX

OSINT - OSRFramework

Open Sources Research Framework - OSRFramework Software has different applications related to username checking, DNS lookups, information leaks research, deep web search, regular expressions extraction and many others.

OSRFramework' install following components

- **mailfy** - find information about emails taken as a reference nickname or email list
- **searchfy** - find profiles linked to a full name
- **usufy** - identify social media profiles using a given nickname
- **checkfy** - guesses possible emails based on a list of candidate nicknames and a pattern

UserRecon

'UserRecon' allows to find usernames across over 75 social networks.

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Now we can start search for usernames from social media networks. Type in following command and then enter desired username at 'Input Username' prompt

> ./userrecon.s

Metadata

Many files contain extra or even hidden data other than the visual data you see at first glance. E-books, photographs, movies, music and even documents can contain data that you don't see at first glance.

To view 'exif' information from the image,
run 'exiftool' command followed by image
name

> **exiftool "FileName"**

By default, 'exiftool' show GPS coordinates in human readable format, Google maps do not understand this format.

Let's print Google-maps friendly GPS data from photo

> **exiftool -gpslatitude -gpslongitude**
-n filename.jpg


```
> exiftool -G filename.jpg | grep -i -E  
'(Make )|(Model)|(Software)|(Device)|  
(Lens)'.jpg | grep -i -E '(Make )|  
(Model)|(Software)|(Device)|(Lens)'
```

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Spiderfoot

SpiderFoot is an open source intelligence (OSINT) automation tool. It integrates with just about every data source available and utilises a range of methods for data analysis, making that data easy to navigate.

>Spiderfoot -l 127.0.0.1:8001

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usage of different spiderfoot API



use 33mail for signup

Sherlock

Sherlock, a powerful command line tool provided by Sherlock Project, can be used to find usernames across many social networks.



Maltego

Maltego is a link analysis software used for open-source intelligence, forensics and other investigations, originally developed by Paterva

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WebHTTrack Website Copier

It allows you to download a World Wide Web site from the Internet to a local directory, building recursively all directories, getting HTML, images, and other files from the server to your computer.

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Tracelabs Browser Bookmarks

Thank You

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