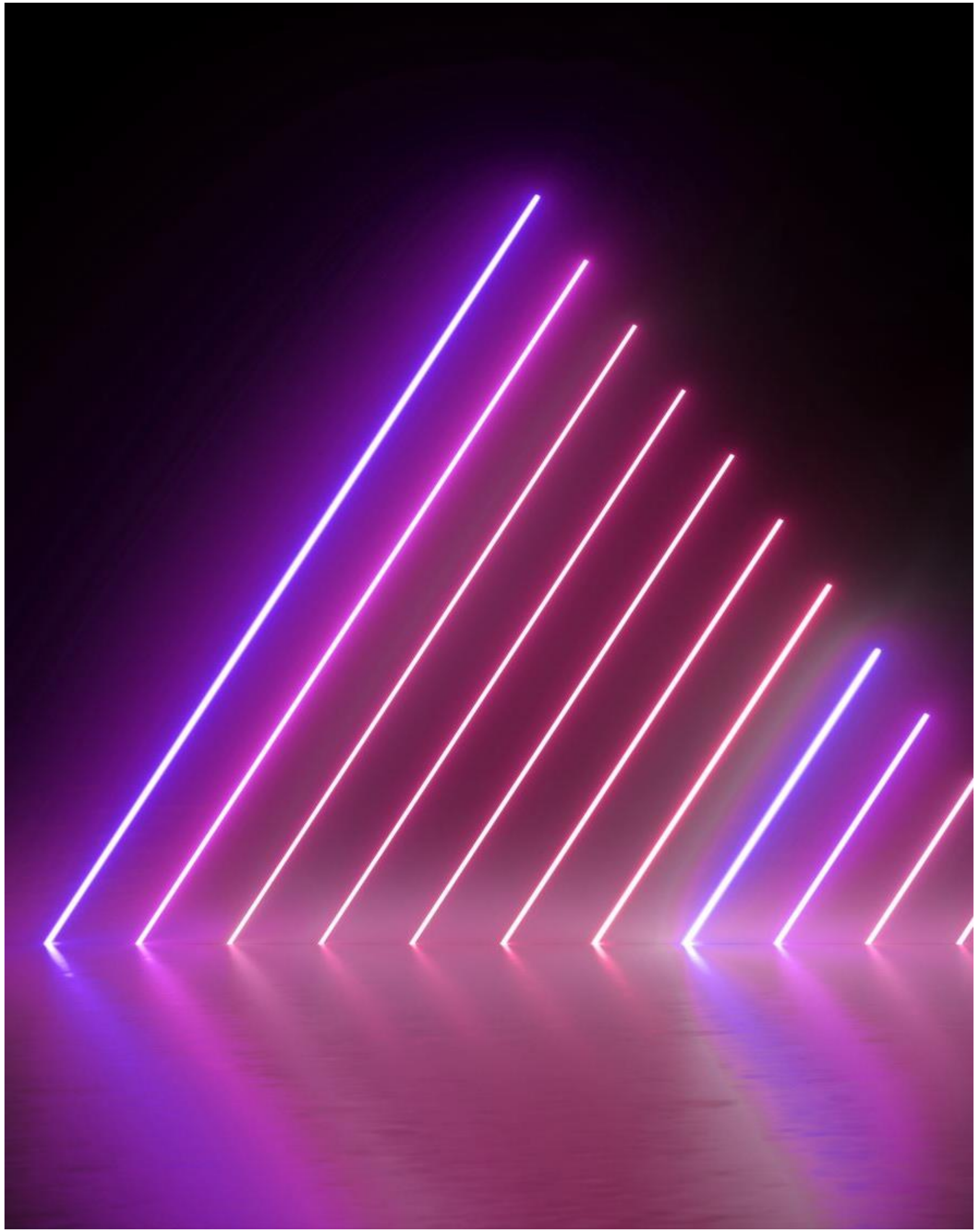
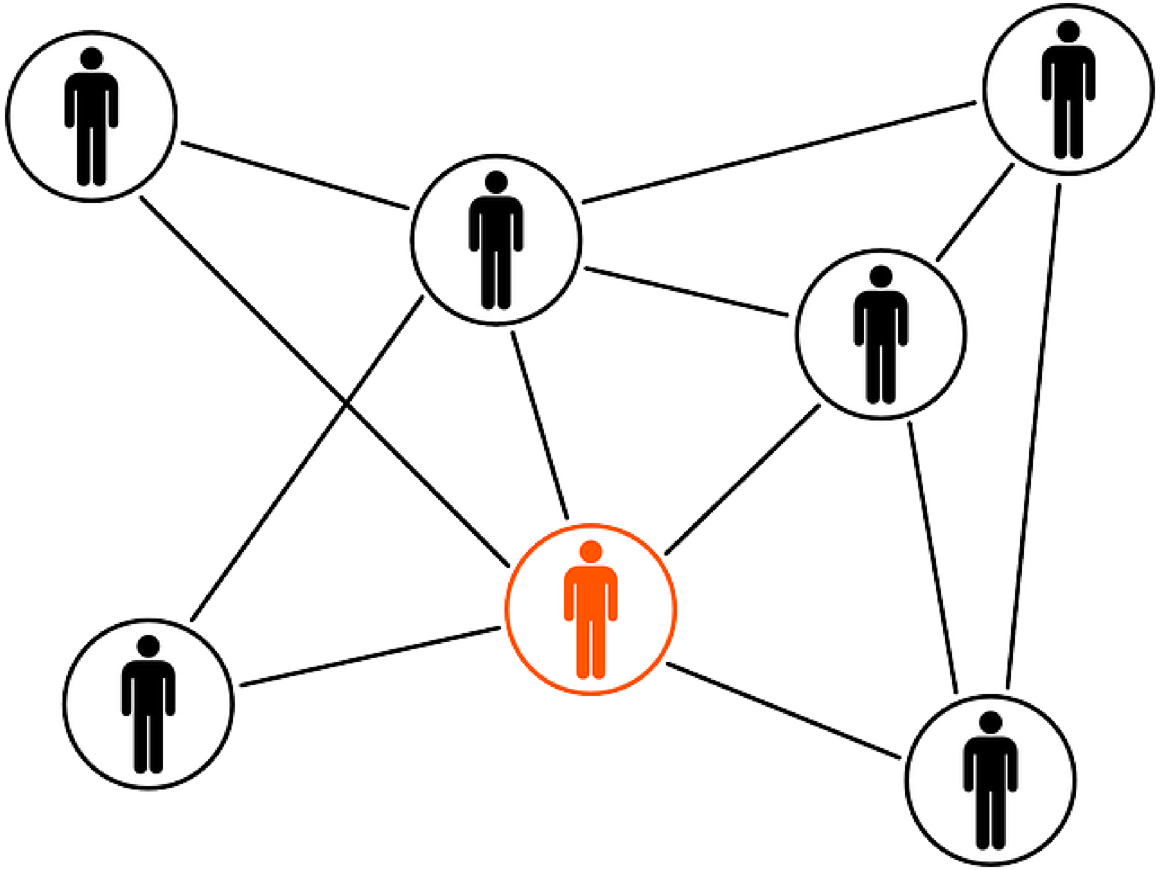
Safety in Cyber World & How AI is Powering the Crimes

Nisha Dua

Coach & Mentor - Cyber Safety & Wellness



WE LIVE IN AN INTERCONNECTED WORLD



WHICH IS AT OUR FINGERTIPS

Source: https://www.globaldataexcellence.com/wp-content/uploads/2017/02/Global-Data-Excellence-Data-governance-market-report.jpg

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The New World Order

MANY OPPORTUNITIES & POSSIBILITIES

BUT

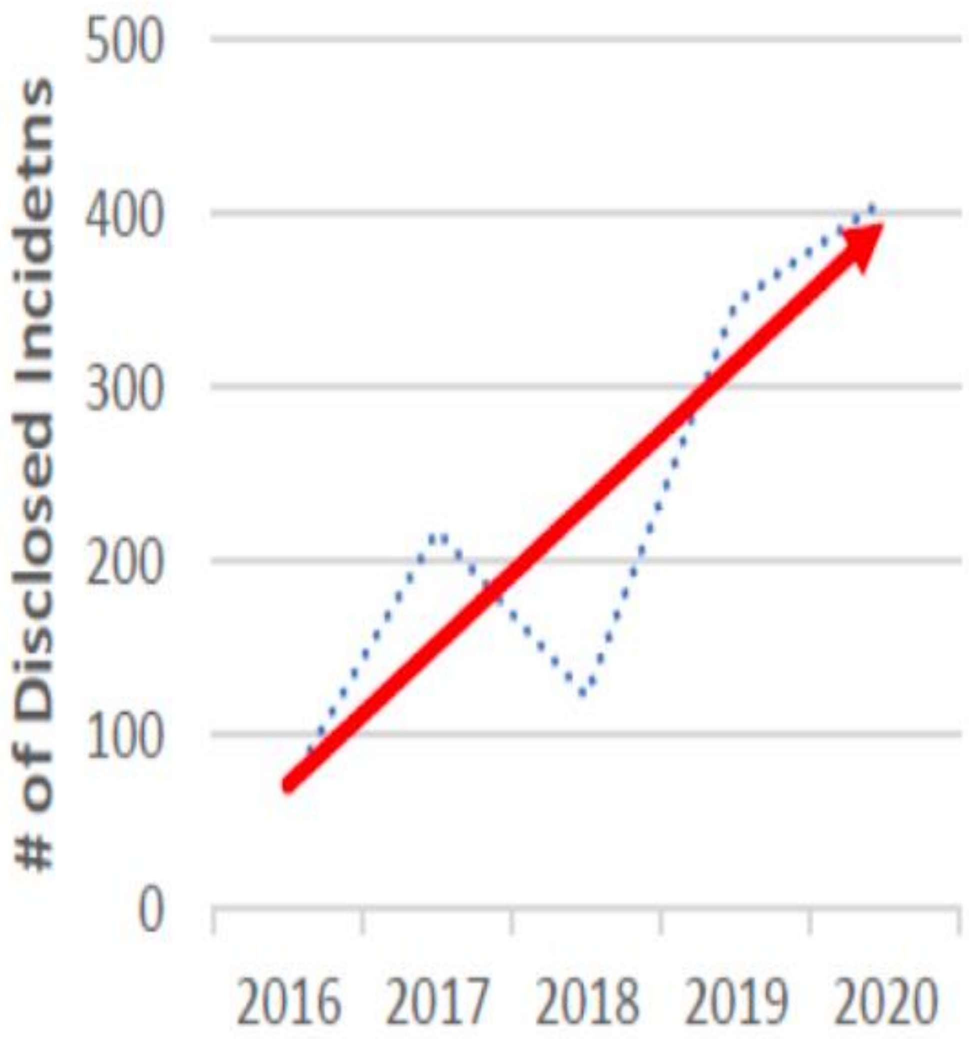
TECHNOLOGY IS A DOUBLE-EDGED SWORD

17-09-2025

Imagine you received an urgent mail from Department of Education or your Senior in the Department, asking urgently for student's data. The mail appears professional and also has a matching Department logo.

What would you do?

CYBER
ATTACKS
AHEAD


# of Disclosed Incidetns
500
400
300
200
100
0
2016
2017
2018
2019
2020

Case Studies

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SAFETY & WELLNESS

1. **** school website hacked, homepage replaced with obscene images

2. School in *** was hacked, and the hackers threatened to post student and teacher data online if a $40 million ransom wasn't paid

4. Couple loses 4.5 crore in Digital arrest

5. …. was blackmailed over her morphed photos

Why are people & organizations becoming so vulnerable in Digital Age? 🤔

Why cyber crime is more prevalent now?

Increased digital dependence

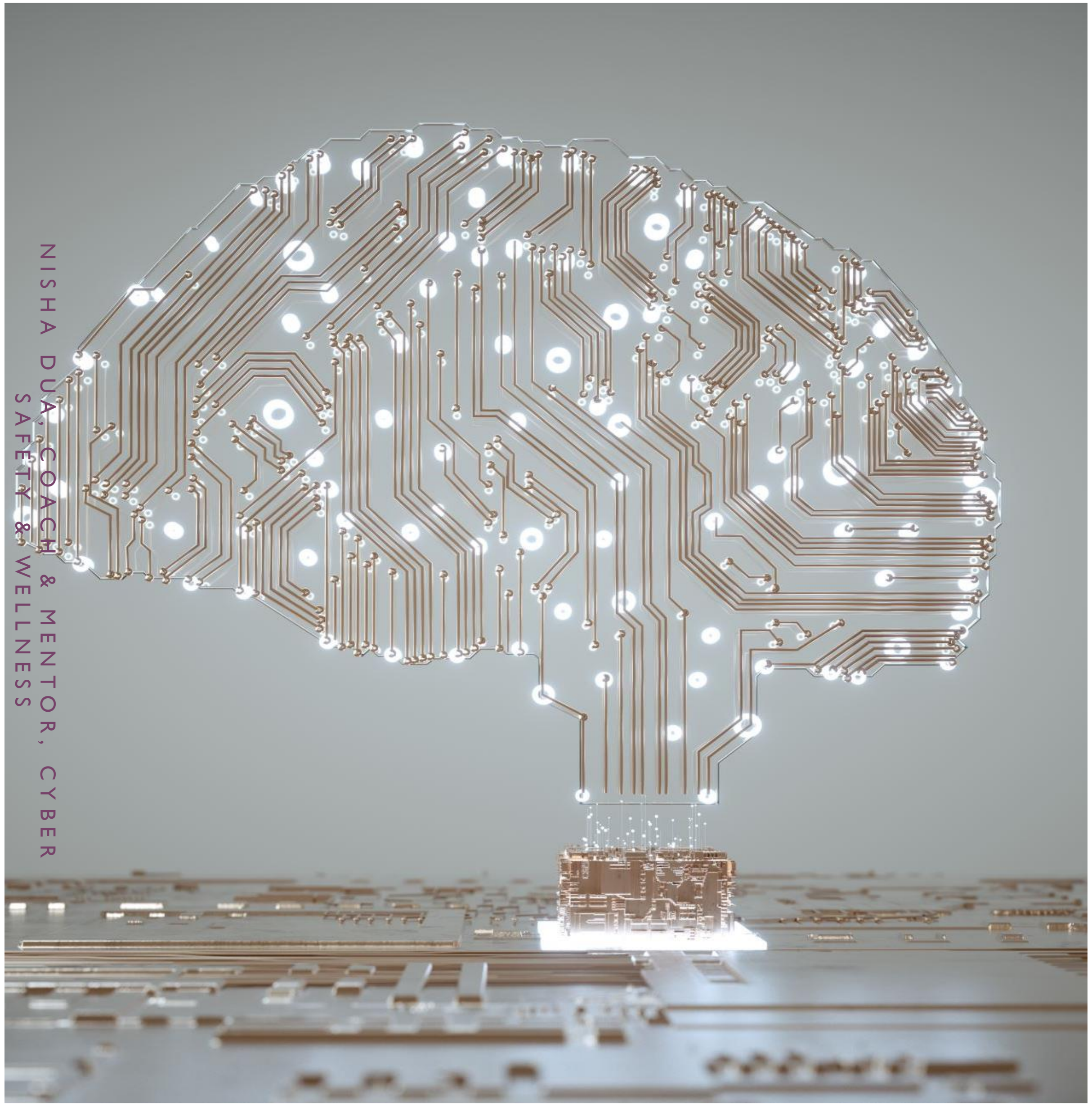
Low barriers of entry

Large target pool

False sense of complacency by the users

Sophisticated technology tools

AI tools being used to fuel/accelerate crimes



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ARTIFICIAL INTELLIGENCE (AI)

When computers and machines are trained to learn, understand, think and take decisions like humans, very very precisely in nano seconds, leaving humans behind.

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Cyber Crime Has Evolved Using AI

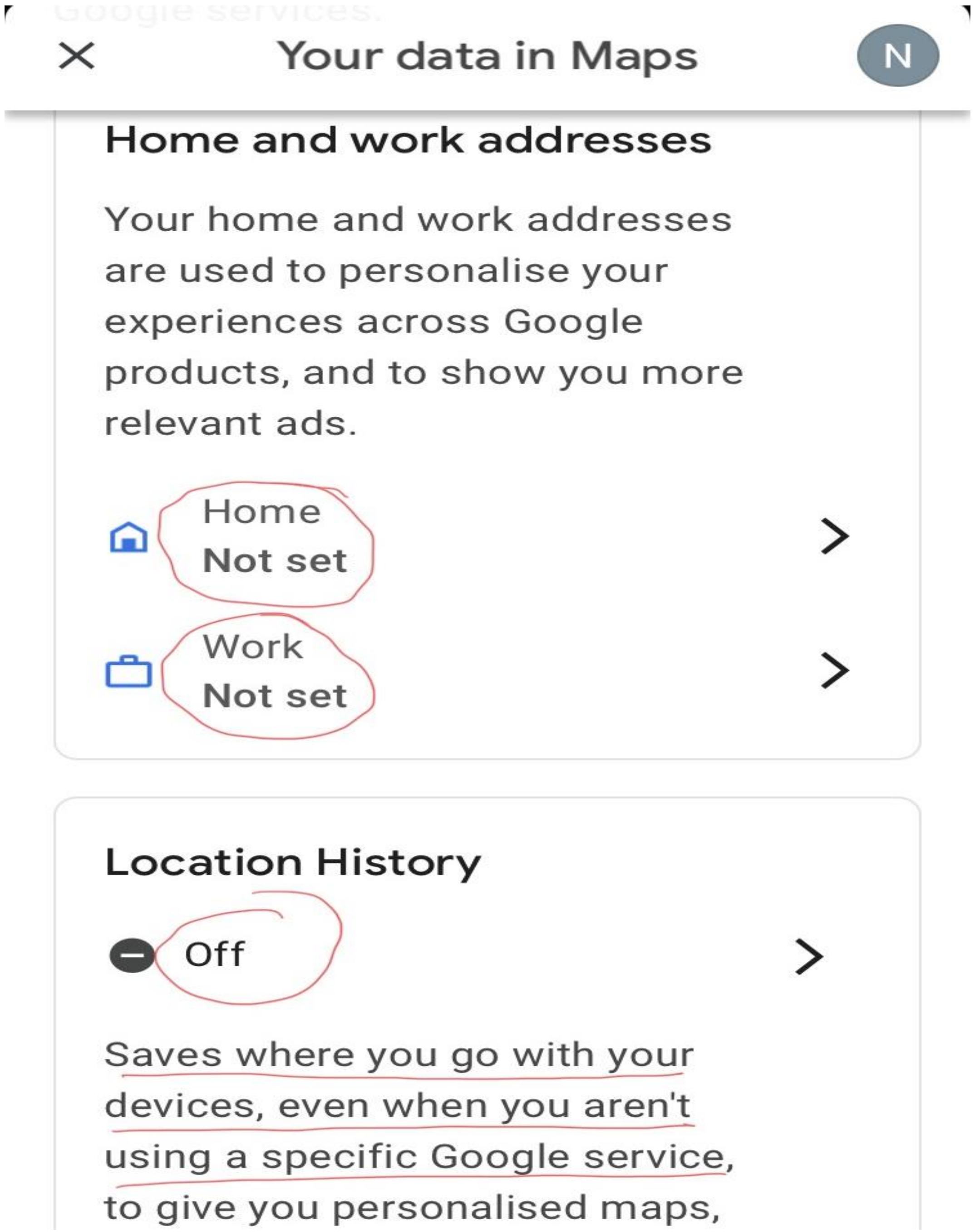
- AI powered phishing
- Deepfakes & voice cloning
- Automated attacks
- Social Engineering made smart
- Data Analysis for targeting

Safeguarding Personal & Professional Information

Personal Safety

Data & System Security
Financial Security
Personal Safety

- Keep Geo Location off
- Control App Permissions
- Use Strong Passwords
- Set 2 Factor Authentication with login alert notifications
- Avoid Public Wifi
- Avoid Juice Jacking
- Don’t Participate in Online Challenges
- Recheck Privacy Settings
- Avoid Clicking Unknown Links



Google services.

× Your data in Maps N

Home and work addresses

Your home and work addresses are used to personalise your experiences across Google products, and to show you more relevant ads.

Home
Not set >

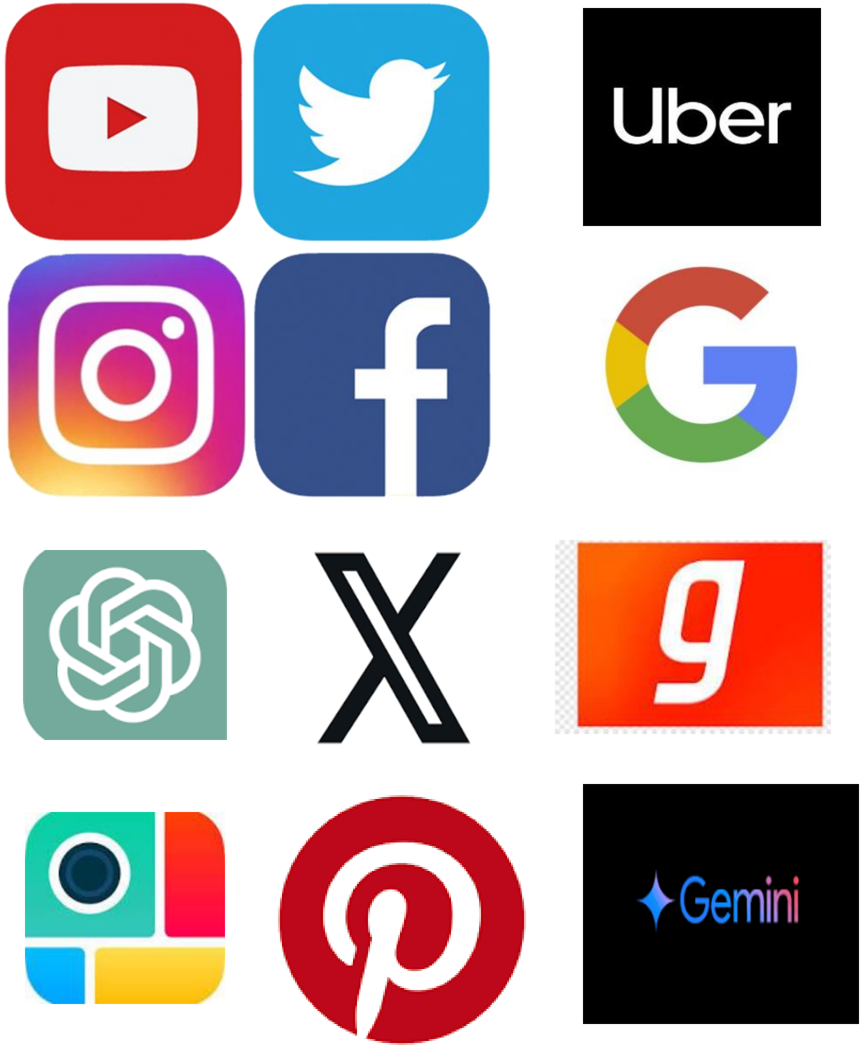
Work
Not set >

Location History

Off >

Saves where you go with your devices, even when you aren't using a specific Google service, to give you personalised maps,

Privacy?



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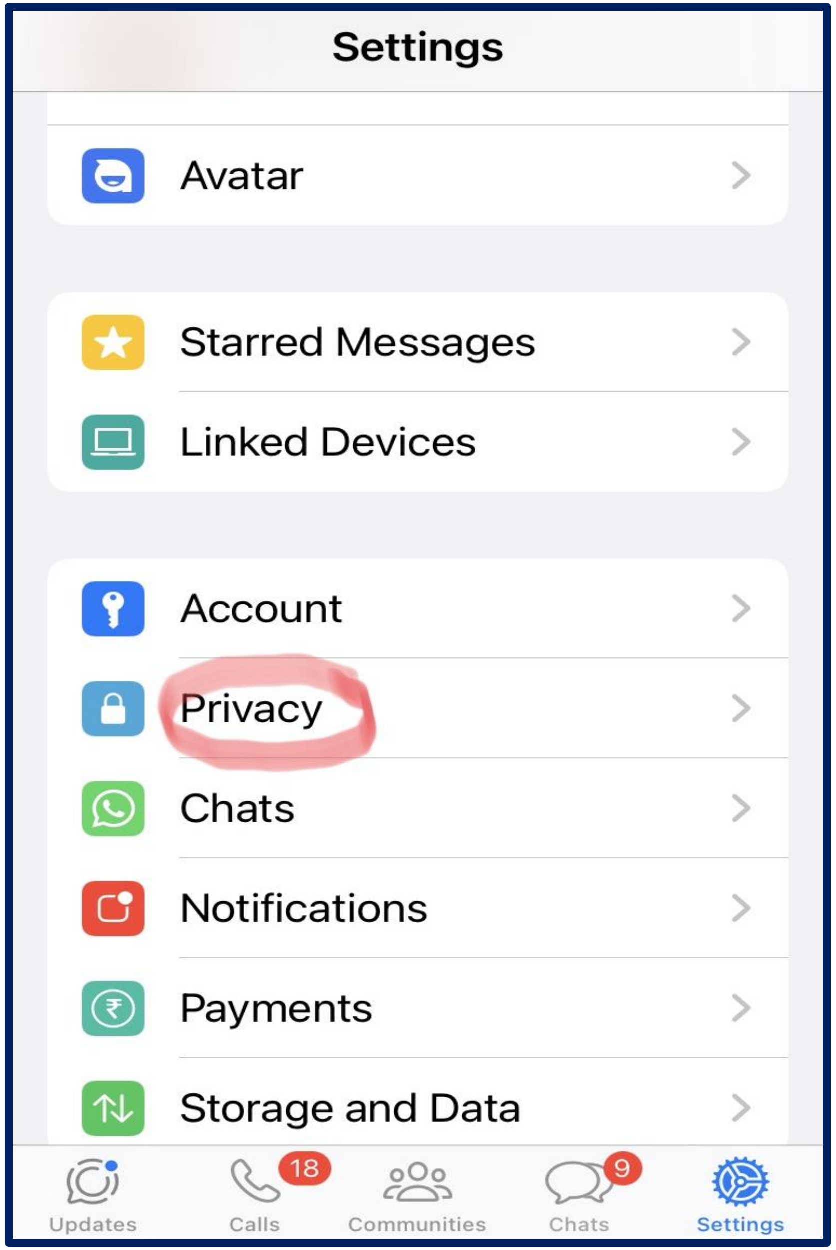
Privacy Settings on WhatsApp



Settings

Avatar

Starred Messages

Linked Devices

Account

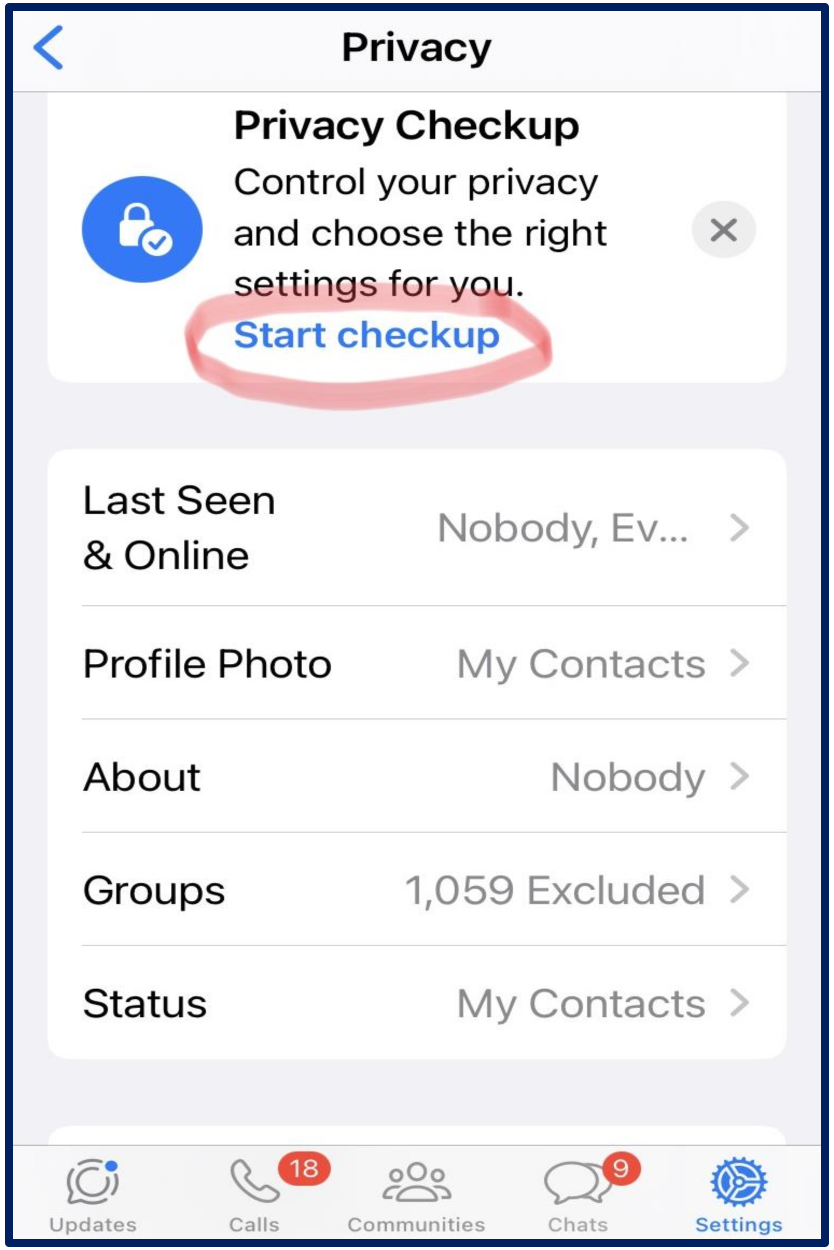
Privacy

Chats

Notifications

Payments

Storage and Data



Privacy

Privacy Checkup

Control your privacy and choose the right settings for you.

Start checkup

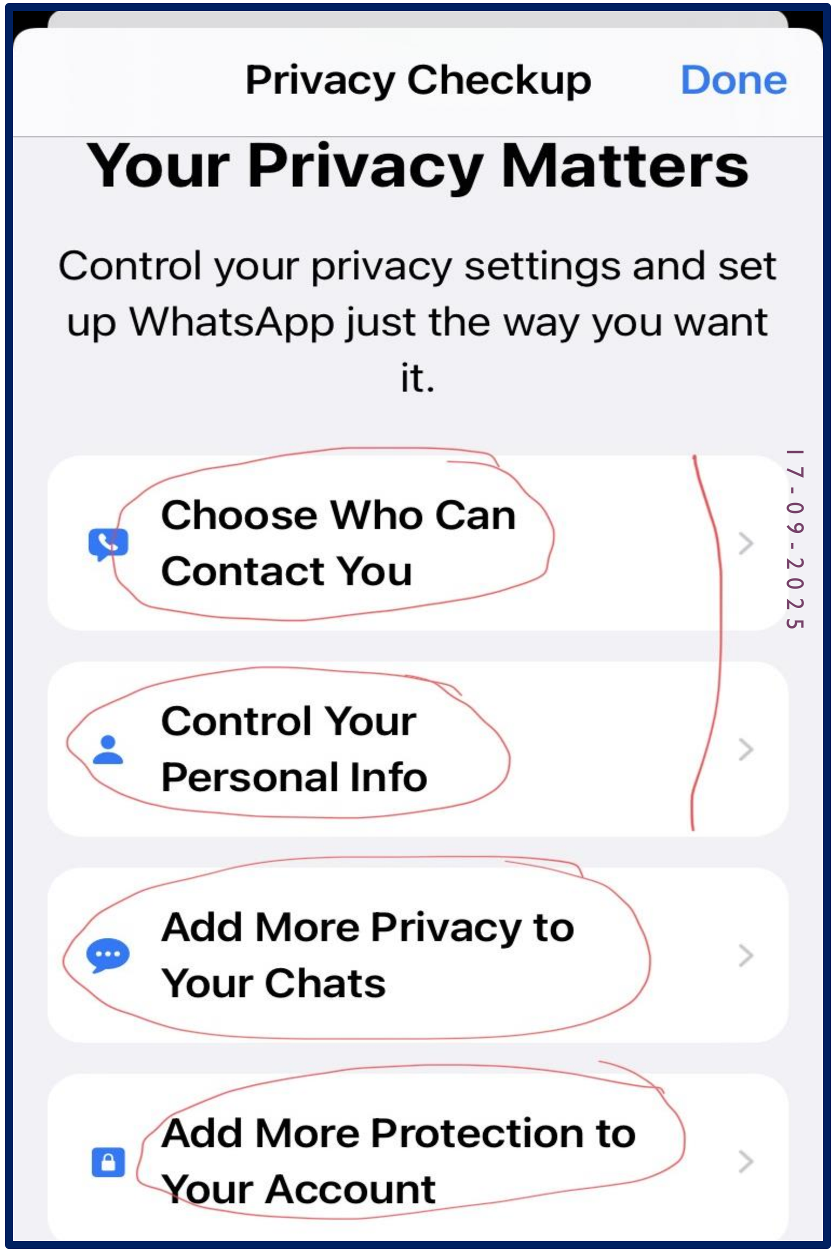
Last Seen & Online — Nobody, Ev...

Profile Photo — My Contacts

About — Nobody

Groups — 1,059 Excluded

Status — My Contacts



Privacy Checkup Done

Your Privacy Matters

Control your privacy settings and set up WhatsApp just the way you want it.

Choose Who Can Contact You

Control Your Personal Info

Add More Privacy to Your Chats

Add More Protection to Your Account

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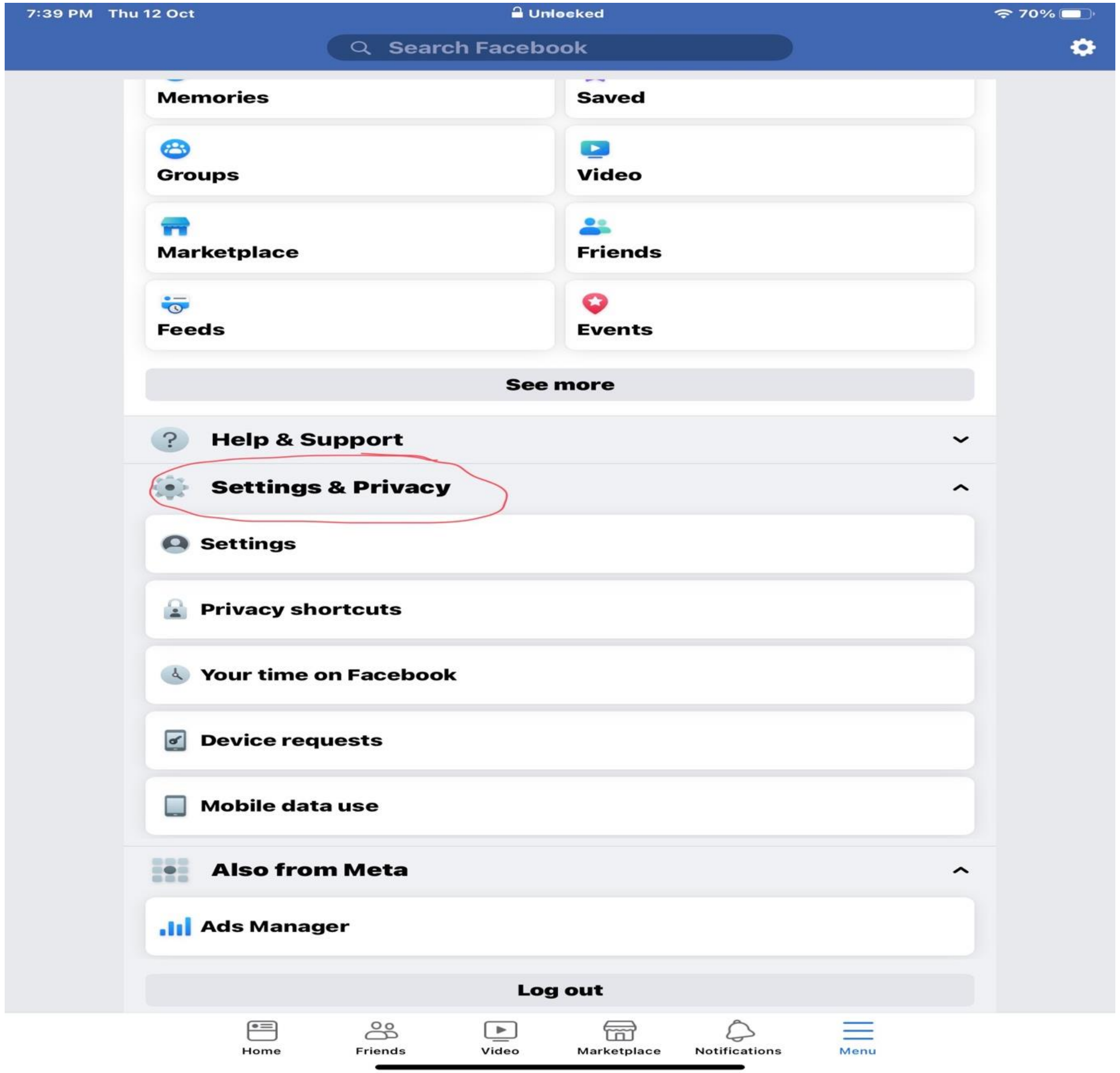
Managing Settings on Facebook


7:39 PM Thu 12 Oct
Unlocked
70%
Search Facebook

Memories
Saved
Groups
Video
Marketplace
Friends
Feeds
Events
See more

Help & Support

Settings & Privacy

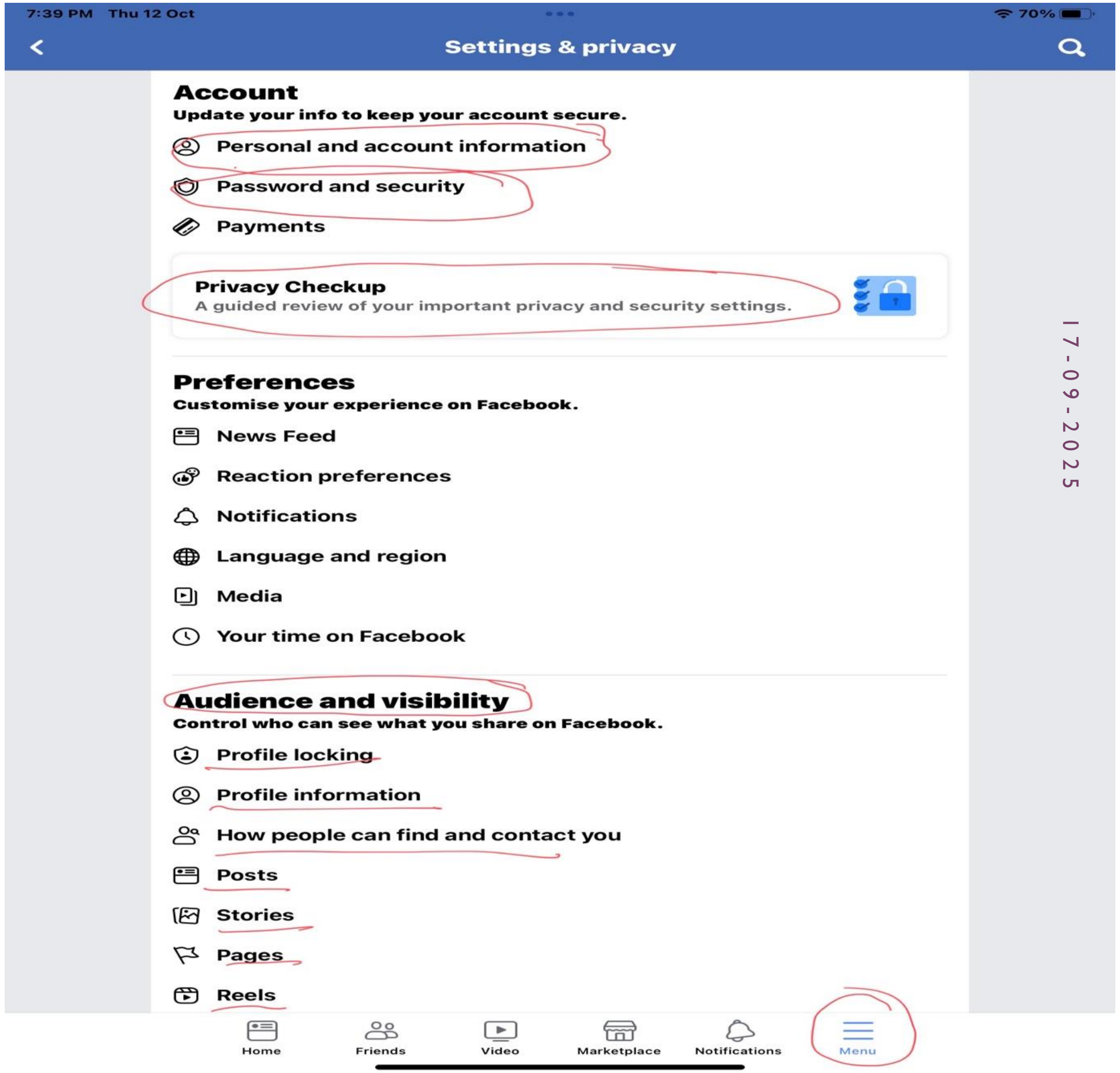
Settings
Privacy shortcuts
Your time on Facebook
Device requests
Mobile data use

Also from Meta

Ads Manager

Log out

Home
Friends
Video
Marketplace
Notifications
Menu


7:39 PM Thu 12 Oct
70%

Settings & privacy

Account

Update your info to keep your account secure.

Personal and account information
Password and security
Payments

Privacy Checkup

A guided review of your important privacy and security settings.

Preferences

Customise your experience on Facebook.

News Feed
Reaction preferences
Notifications
Language and region
Media
Your time on Facebook

Audience and visibility

Control who can see what you share on Facebook.

Profile locking
Profile information
How people can find and contact you
Posts
Stories
Pages
Reels

Home
Friends
Video
Marketplace
Notifications
Menu

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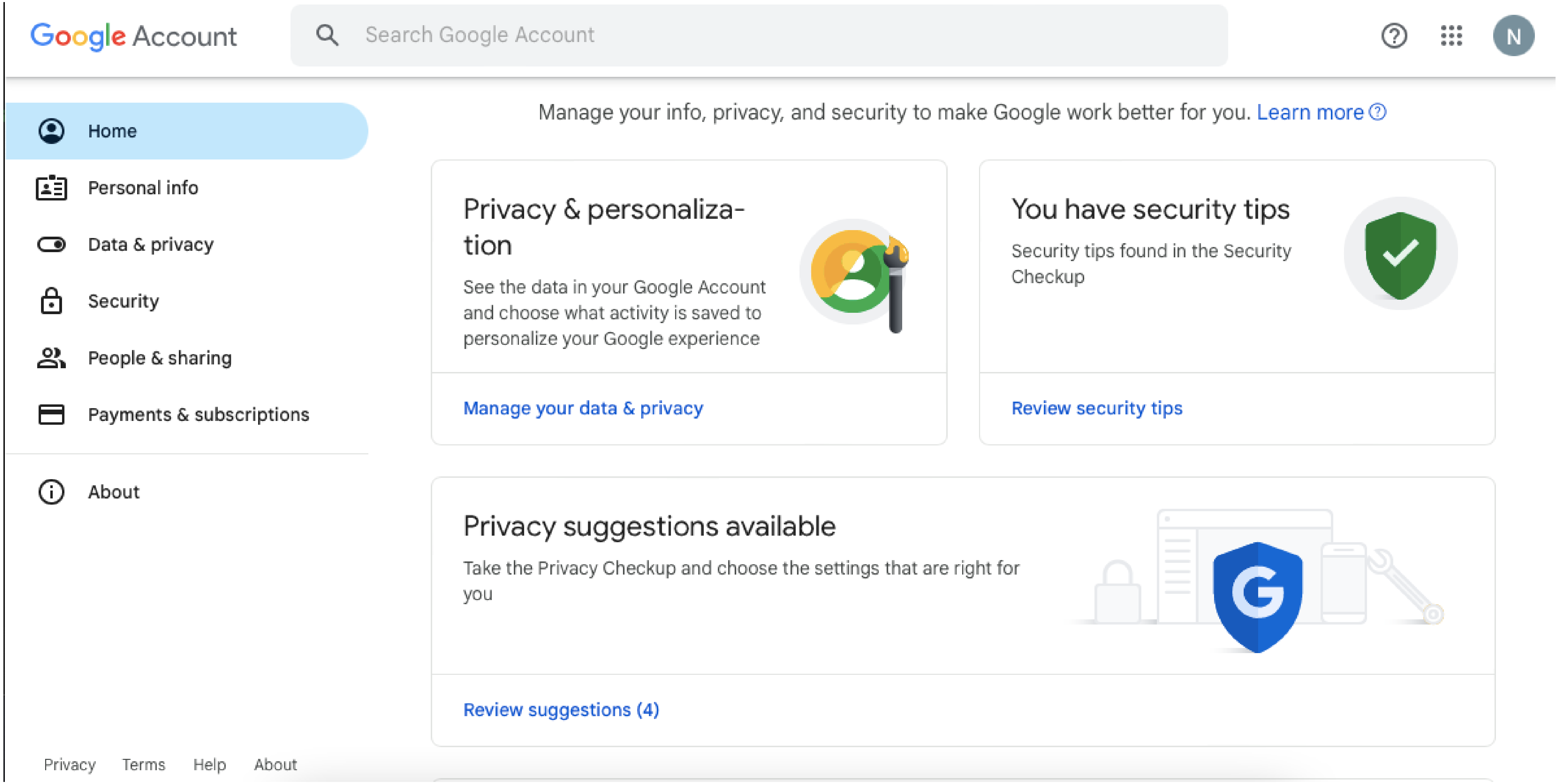
Managing Setting on Google Account



Manage your info, privacy, and security to make Google work better for you. Learn more

Privacy & personalization

See the data in your Google Account and choose what activity is saved to personalize your Google experience

You have security tips

Security tips found in the Security Checkup

Privacy suggestions available

Take the Privacy Checkup and choose the settings that are right for you

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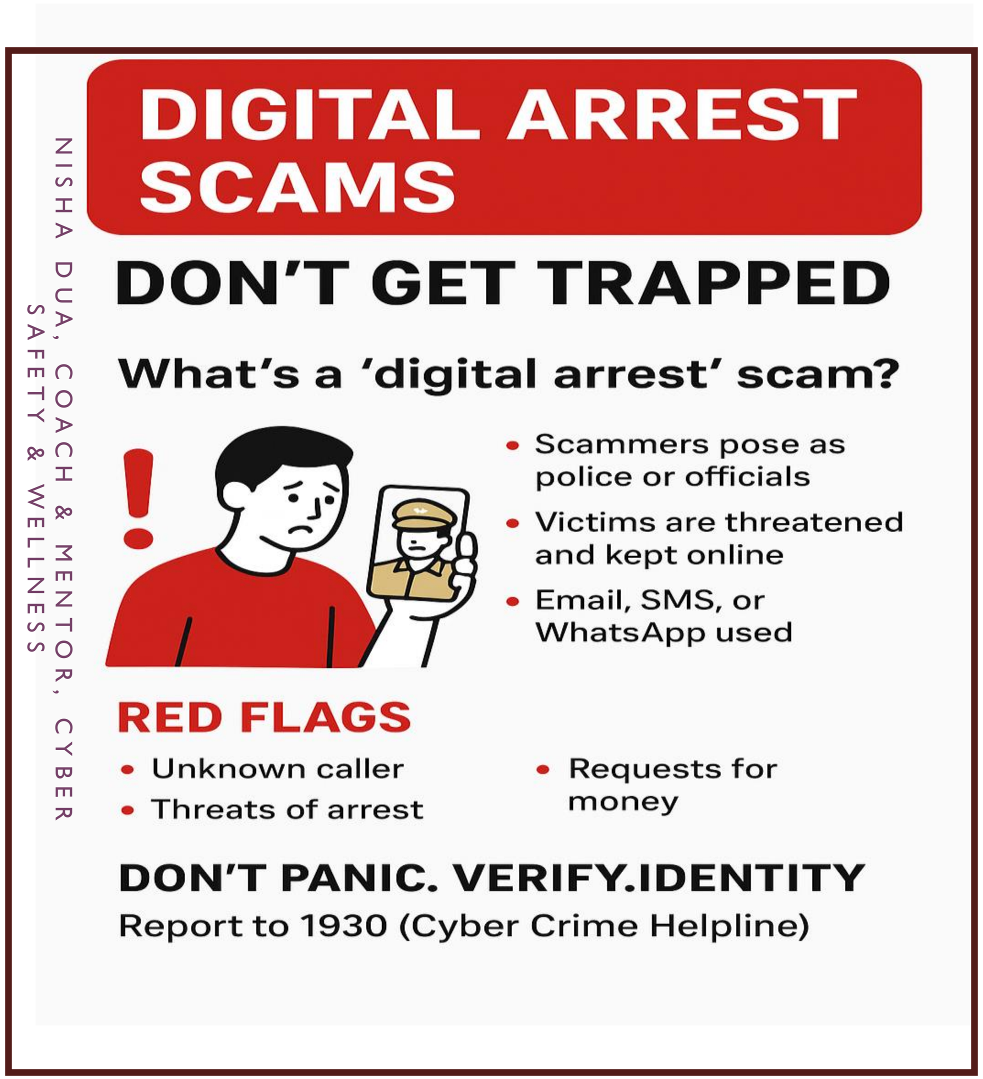
Digital Arrest – Modern Day Scam



DIGITAL ARREST SCAMS

DON'T GET TRAPPED

What's a 'digital arrest' scam?

- Scammers pose as police or officials
- Victims are threatened and kept online
- Email, SMS, or WhatsApp used

RED FLAGS

- Unknown caller
- Threats of arrest
- Requests for money

DON'T PANIC. VERIFY.IDENTITY

Report to 1930 (Cyber Crime Helpline)

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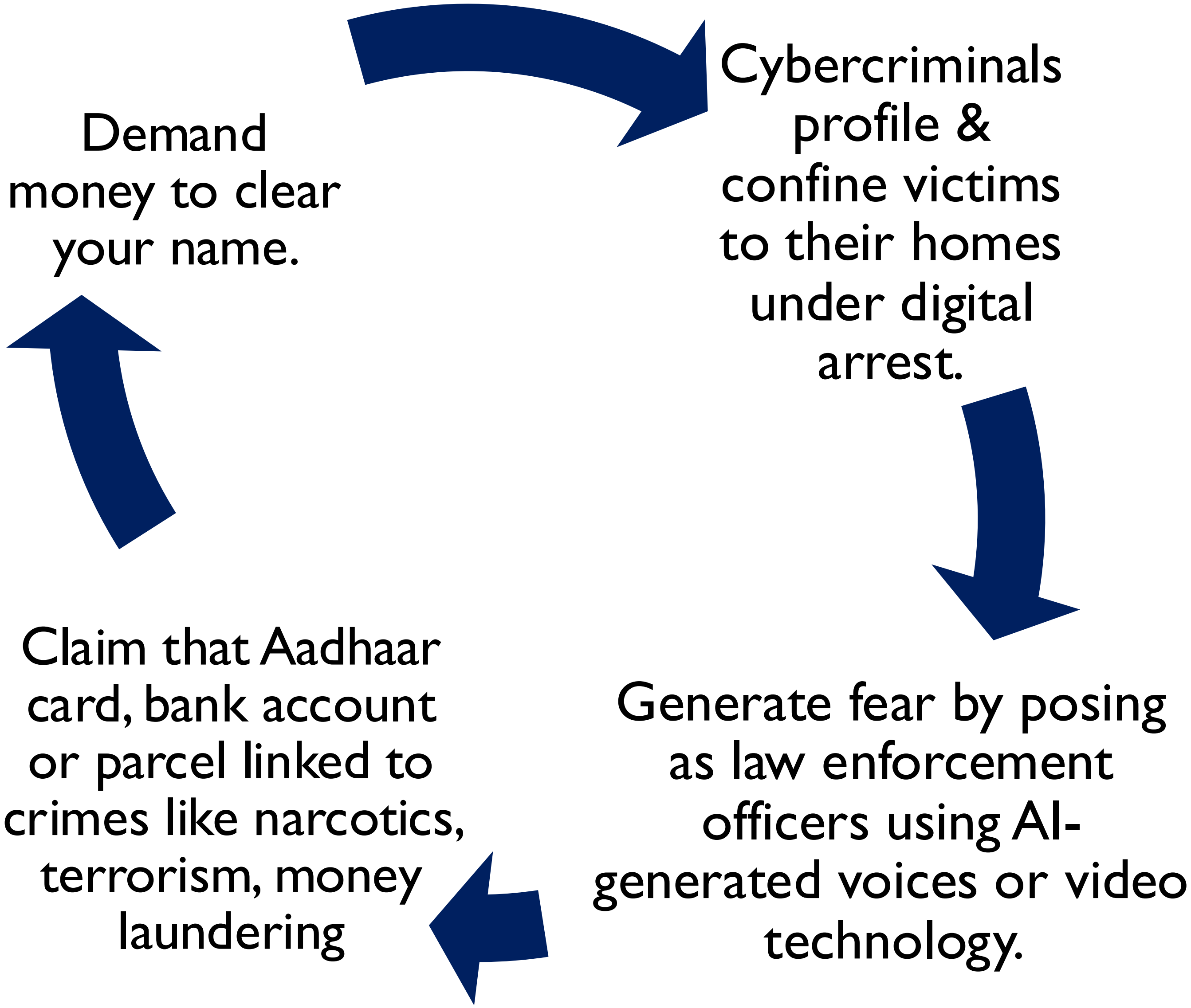

Cybercriminals profile & confine victims to their homes under digital arrest.

Generate fear by posing as law enforcement officers using AI-generated voices or video technology.

Claim that Aadhaar card, bank account or parcel linked to crimes like narcotics, terrorism, money laundering

Demand money to clear your name.

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Safety Tips

THINKING	TALKING	SHARING	TRANSFERING	EDUCATING
Stay calm, apply logic	Do not engage, hangup & call helpline	Never share Aadhar Pan, OTP, Bank Details	Do not transfer money	Educate children, elderly members

Schools are Easy Targets

EASY ACCESS & CONTROL

School Boundary – Physical

Source: freepik.com

School Boundary- Firewall (Technical)

Source:www.taylored.com

Attacks on Systems & Data

Cyber Attacks in Schools

- Cyber Invasion
- Data Theft (Social Engineering)
- Ransomware Attacks
- Website Hacking/Defacing
- Impersonation - Fake / Inappropriate Messages
- Blackmail
- Fake News

Student Data is very Valuable & Sensitive

- Personal Identifiable Information (PII)
- Family Details
- Academic Information
- Testing / Performance Data
- Health Details
- Behavioral Details

Why This Matters Most For Educators

- Trust being exploited
- Lack of Awareness & Skills
- Weaker cyber security protections & protocols
- Paucity of Funds
- Limited/Untrained IT Personnel
- May use untested / less cost technologies and data sharing (cloud) platforms
- Human Error
- Free / Pirated Softwares

SAFEGUARDS

SAFEGUARDS

- Secure Learning Platforms
- Secure Login Credentials
- Secure Cloud & Data Sharing Platforms
- Download Trusted Learning Apps
- Password Protected Files
- 2 Factor Authentication
- Original Software
- Updated Anti Virus

SAFEGUARDS CONTD..

- Protect Personal Details
- Blur Names & Faces
- Beware of Malicious Links
- Avoid 3rd Party Apps
- Create Awareness at all Levels
- Appoint Responsible Security Coordinator
- Verify & Then Trust
- Vetting vendors – trusted and credible vendors for computer lab, website, LMS, data sharing platforms

BUILDING THE CULTURE OF CYBER SAFETY …

Invest in developing skills of the workforce at all levels

Conduct Activities and Integrate Digital Citizenship and Online Safety in all departments

Associate with experts/organisations who can provide guidance and support.

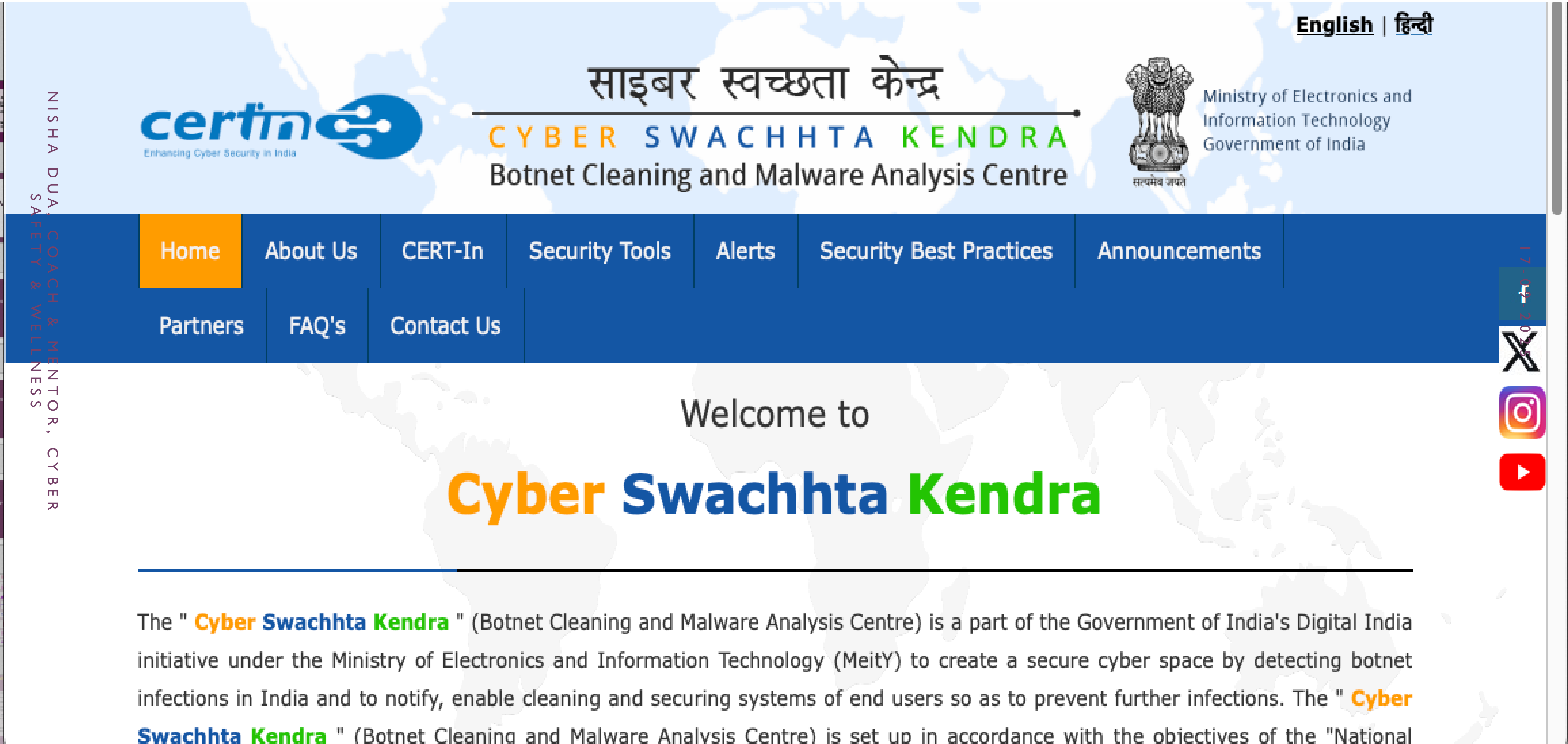
Reporting..

- Social Reporting
- Platform Reporting
- Legal/Formal Reporting

- File a formal complaint www.cybercrime.gov.in
- Call 1930

- CYBER SAFETY CELLS
- CHILD LINE Help Line – e Box

https://www.csk.gov.in



साइबर स्वच्छता केन्द्र

CYBER SWACHHTA KENDRA

Botnet Cleaning and Malware Analysis Centre

Ministry of Electronics and Information Technology
Government of India

Welcome to

Cyber Swachhta Kendra

The " **Cyber Swachhta Kendra** " (Botnet Cleaning and Malware Analysis Centre) is a part of the Government of India's Digital India initiative under the Ministry of Electronics and Information Technology (MeitY) to create a secure cyber space by detecting botnet infections in India and to notify, enable cleaning and securing systems of end users so as to prevent further infections. The " **Cyber Swachhta Kendra** " (Botnet Cleaning and Malware Analysis Centre) is set up in accordance with the objectives of the "National

REFLECTION QUESTION…

We teach students how to stay safe in real world – don't talk to strangers, avoid dark lonely places, keep the door locked when alone….

But

Are we preparing them the same way to stay safe in the digital world? Or we leave them to learn and navigate the dark world of Internet by themselves?

Our Responsibilities:

- Be alert & aware
- Be a good role model
- Empower & educate

Prepare Students to Succeed in Digital Age

HOW?
By smartly following the Rules of Information Safety Highway