

# PROTECTION FROM MODERN CYBER FRAUDS



#### AGENDA

- Morgan Freeman (Hollywood Actor)
- Barack Obama (44<sup>th</sup> President, USA)
- Akshay Kumar (Bollywood Actor)
- Questions

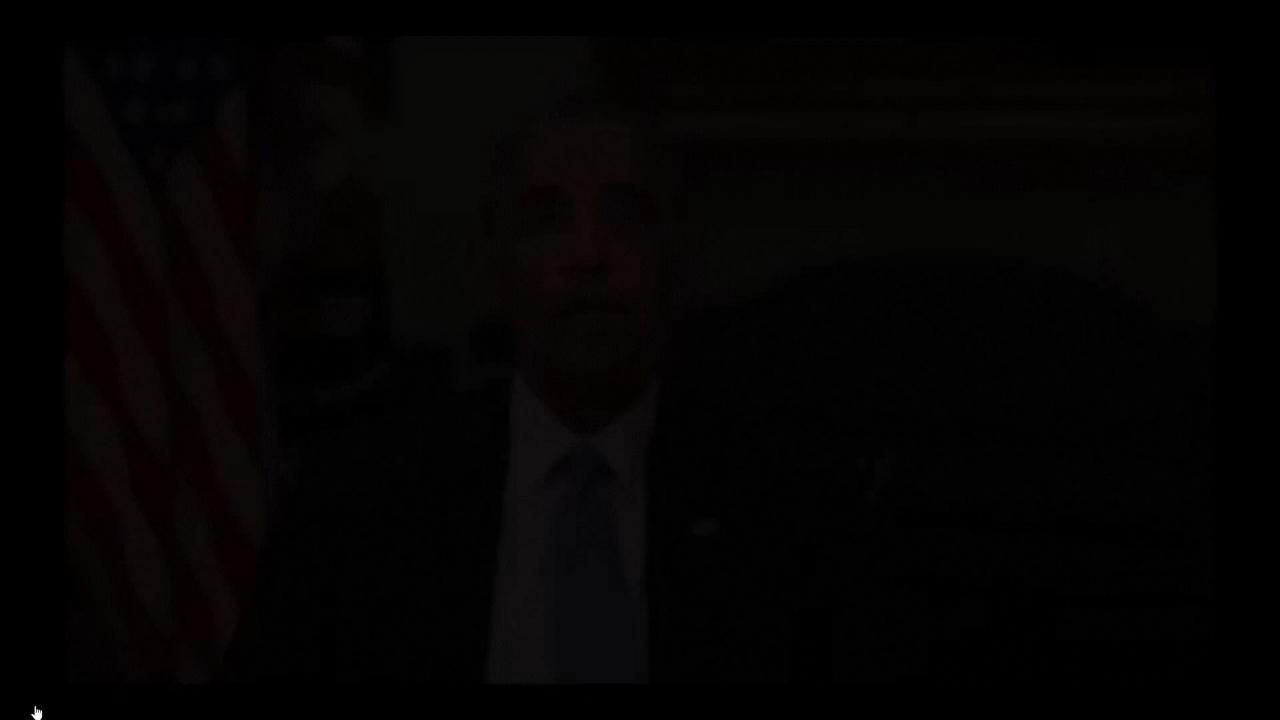


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# QUESTIONS

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#### AGENDA

- State of Cyber Crime in India
- What is a cyber fraud?
- Modern cyber frauds, case studies and tips to stay safe
- Where to report a cyber fraud?
- Quiz
- Questions

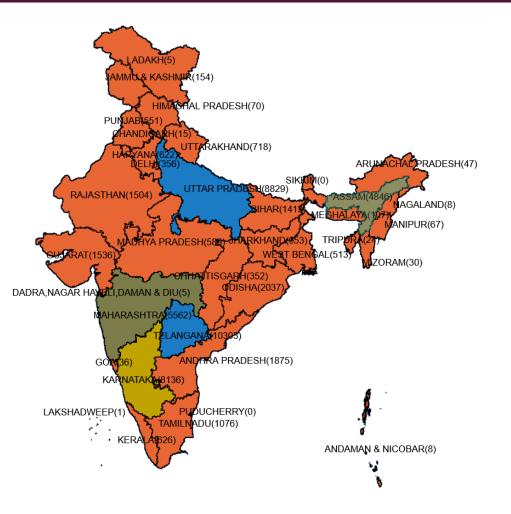




# STATE OF CYBER CRIME IN INDIA



#### STATE OF CYBER CRIME IN INDIA - 2021



#### Observations

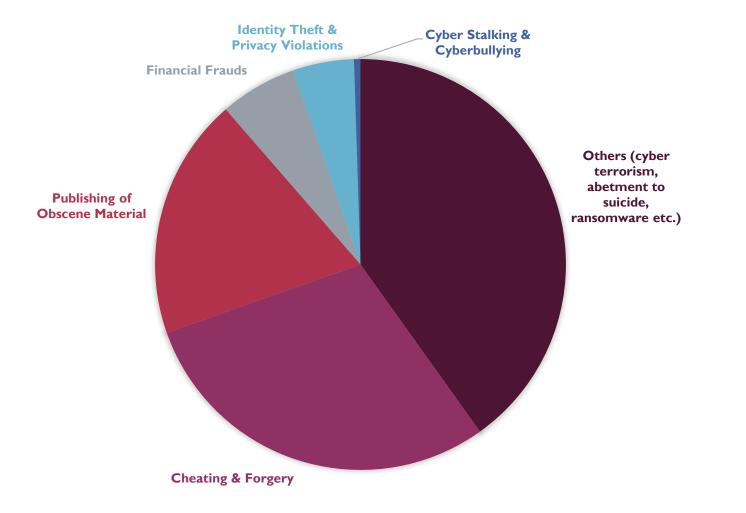
- Uttar Pradesh and Telangana reported the most cyber crime cases in 2021
- Karnataka was on 2<sup>nd</sup> place with 8136 cases
- Maharashtra and Assam occupied the 3<sup>rd</sup> place.
- Over 10 Lakh cyber crime complaints received in 2022 (^168%)

Data source: <u>https://data.gov.in</u> Catalog: Cyber Crime in India -2021





### TOP CYBER CRIME CASES REPORTED IN 2021 (UTTAR PRADESH)



Observations

 Cheating & Forgery and Publishing of Obscene Material were the top two cyber crime categories in Uttar Pradesh in 2021.



Data source: <u>https://data.gov.in</u> Catalog: Cyber Crime in India -2021



# WHAT IS A CYBER FRAUD?



#### **CYBER FRAUD**

# An act committed

- with the intent to deceive a person
- by presenting false or incorrect information via or generated using a cyber resource
- for direct or indirect financial gains





# MODERN CYBER FRAUDS, CASE STUDIES AND TIPS TO STAY SAFE

- Cyber frauds in which artificial intelligence technologies are used to create false or misleading information.
- Al Technologies commonly used in frauds:
  - Generative AI enables users to quickly generate new content (images, text, audio etc.) based on the input they provide. Can be used to create realistic false messages, images etc.
    - You

I am a bank representative. I need to send email to customers informing that their account will be locked immediately if they don't update their PAN number using this link https://yks.red/ updatePAN. Write a mail for this.



Subject: Immediate Action Required: Update Your PAN Information to Keep Your Account Active

Please note:

Dear Valued Customer,

I hope this message finds you well. We are writing to you as part of our ongoing efforts to ensure the highest level of security and compliance with regulatory requirements for all our customer accounts.

As per the latest regulatory guidelines, it is mandatory for all our customers to update their Permanent Account Number (PAN) details in our records. This is a critical step to ensure uninterrupted access to your account and to continue enjoying our banking services without any inconvenience.

#### Action Required:

To update your PAN details, please click on the following secure link: Update Your PAN. It is important to complete this update by [Insert Deadline Here] to avoid any temporary restrictions on your account, including account locking.

- Ensure that you are entering your details on our secure website. The link provided above is encrypted for your security.
- This request is part of our commitment to comply with legal and regulatory standards, safeguarding your interests and maintaining the integrity of your account.

If you have already updated your PAN details recently, please disregard this message.

**For assistance or if you have any questions**, please do not hesitate to contact us at [Insert Contact Information], or visit your nearest branch. Our team is here to support you every step of the way.

We thank you for your immediate attention to this matter and for your continued trust in [Bank Name].

#### Warm regards,

[Your Name] [Your Position] [Bank Name] [Contact Information]

#### You

Generate an image of Ajay Devgan look alike drinking tea

ChatGPT

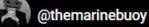


Here's an image of a man resembling Ajay Devgan enjoying a cup of tea.



- Al Technologies commonly used in frauds:
  - Deepfake AI used to create convincing videos or images where someone is doing or saying something that was not actually done or said.





Deep Fake & AI video of decades old still photographs of my Mother brought to life digitally.







### FAKEVIDEO CALL COSTS RS. 200 CRORE

#### Deepfake scam: Company loses over Rs 200 crore after fake video call from 'CFO'

- The imposter portrayed himself as the Chief Financial Officer (CFO) of the company and ordered a money transfer during the video call.
- The employee was fooled into believing that the person on the video call was real and they sounded real as well.
- Employee was instructed to make 15 transfers to five different accounts.

Source: https://www.businesstoday.in/technology/news/story/deepfakescam-company-loses-over-rs-200-crore-after-fake-video-call-from-cfo-416183-2024-02-05

- How to identify such scams?
  - Always look for unnatural facial movements and expressions.
  - Carefully listen for audio that doesn't match the person's lips.
- What not to do?
  - Do not follow instructions without verifying.
  - Do not circulate deepfake content.
- What to do?
  - Verify with the concerned person or company using an alternate communication medium.



 Report such frauds to local police station or concerned cyber cell.

# STEPS TAKEN BY GOVT. OF INDIA FOR SAFE USE OF AI AND DEEPFAKE TECHNOLOGY

- Gol issued a <u>directive, dated 07 November, 2023</u>, to social media intermediaries to remove morphed videos or deepfakes from their platforms within 36 hours of reporting, in accordance with a requirement outlined in the IT Rules 2021.
- MEITY issued an advisory, dated 15<sup>th</sup> March, 2024, requiring intermediaries and platforms to perform due diligence before using AI and related technologies and ensure compliance with the Indian IT Act 2000 and IT Rules 2021.
- Working on drafting new regulations related to safe use of AI and Deepfakes.



### ONE-TIME PASSWORD (OTP) BASED FRAUDS

- Cyber frauds in which the scammer tricks the victim in sharing the OTP. This OTP is usually tied to a banking service.
- Scammers use a convincing pre-text and urgency for psychologically manipulating their targets.
- Victims, often in a rush, do not give due attention the message and end up sharing the OTP.
- OTPs are often sent to target's email address or phone number.



### A SHARED OTP THAT COSTED RS. 68 LAKHS [PROBABLY FAKE]

## Techie loses Rs 68 Lakh in OTP Scam: What it is and how you can protect yourself

- Aadish posted an advertisement to sell his bed on OLX.
- The scammer posed as a buyer and got Aadish to perform multiple small value transactions.
- The scammer then used this pretext to obtain OTPs for multiple value transaction.

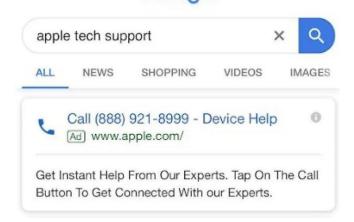
Source: https://www.moneycontrol.com/news/trends/bengaluru-techie-tries-to-sell-bed-on-olx-ends-up-losing-rs-68-lakh-11909581.html

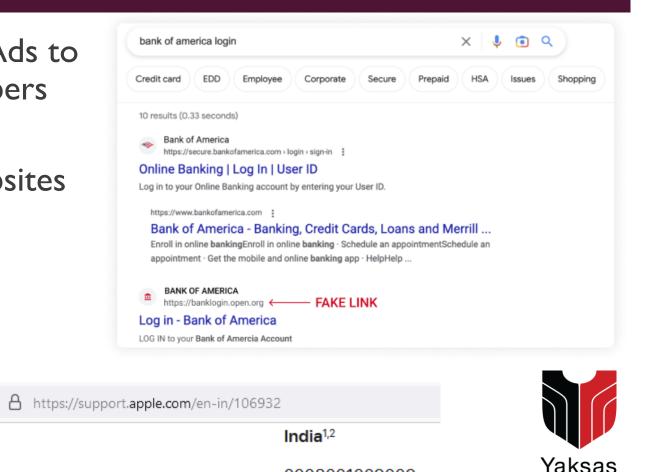
- How to identify such scams?
  - Beware of anyone asking for a banking related OTP.
  - Look for unusual patterns in a person's conduct.
- What not to do?
  - Do not share a banking related OTP.
  - Do not blindly trust the other person when using online services.
- What to do?
  - Immediately report such transactions to bank and file a FIR at the nearest police station.
  - Read carefully the content of the message containing the OTP.



#### SEARCH ENGINE BASED FRAUDS

- Scammers use SEO techniques and Ads to make their fake customer care numbers or websites appear in top 10 results.
- These customer care numbers / websites look similar to any real support information of famous companies or banks.





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Cyber Security Research

### USING FAKE CUSTOMER SUPPORT CHANNELS TO CHEAT PEOPLE

#### How a Simple Act of Returning Spoiled Milk Turned into a Rs 77,000 Nightmare for One Elderly Woman!

- Sophia (name changed) used search engine information to contact an online grocery platform's customer support to return spoiled milk.
- Was asked to follow a series of instructions to receive a refund electronically.
- Sophia followed the instructions and entered her UPI PIN on a fraudulent page.

Source: https://www.the420.in/elderly-woman-loses-77000-in-milk-refund-scam/

- How to identify such scams?
  - Customer care asking for money.
  - Customer care asking to share sensitive banking information such as OTP or UPI PIN..
- What not to do?
  - Do not trust customer care information reported by Google or any other search engine.
  - Do not follow instructions, involving financial transactions, from unknown sources,
- What to do?
  - Use customer care numbers / channels available on the company's website.
  - Report such cases to the concerned company and to Cyber Helpline (1930)



### A DRINK WORTH RS 3.4 LAKHS

#### Beware of Online Liquor Scams: Bengaluru Man Loses Rs 3.4 Lakh in Cyber Fraud

- Dhanush (name changed) contacted a liquor store via number found online.
- Shared his credit card details to make payment.
- The scammer asked him to share OTP on the pretext of "removing" his details from their system. Twice.
- Dhanush lost Rs. 3.4 Lakhs within 25 minutes.

Source: https://www.the420.in/elderly-woman-loses-77000-in-milk-refund-scam/

- How to identify such scams?
  - Customer care asking for money.
  - Customer care asking to share sensitive banking information such as OTP or UPI PIN..
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  - Do not follow instructions, involving financial transactions, from unknown sources,
- What to do?
  - Use customer care numbers / channels available on the company's website.
  - Report such cases to the concerned company and to Cyber Helpline (1930)





# WHERE TO REPORT A CYBER FRAUD?



### WHERE TO REPORT A CYBER FRAUD?

- National Cybercrime Reporting Portal <u>https://cybercrime.gov.in</u>
- Cybercrime helpline Helpline number is 1930
- Nearest local Police station 112 / 100 Women helpline number is 181
- Nodal cyber cell -

https://www.rbi.org.in/commonman/Upload/English/Content/PDFs/LNA100112C\_M. pdf

- Additional information available at:
- https://www.the420.in/cyber-crime-helpline-reporting-cyber-crime-in-india-keep-this-information-ready-before-calling-1930
- https://www.the420.in/step-by-step-guide-how-to-file-cybercrime-complaint-online-in-india/?swcfpc=l







Which is the real website of Gmail? A. gmail.com B. gmɑil.com Answer: A. Option B looks similar but the 'd' in gmdil.com looks like an alphabet but it's not. Such characters are called Homoglyphs. They are identical to letters. Such letters are often used in scam (phishing) mails to mislead people.



What is the primary risk associated with deepfake technology in the context of cyber fraud?

A. Increased internet usageB. Identity theftC. Faster computer performanceD. Improved video quality

Answer: B. Deepfake technology can be used to create highly convincing fake videos and audio recordings, making it possible for fraudsters to impersonate others. This can lead to identity theft, where someone's personal information is used without their permission, often to commit fraud or other crimes.



You received an OTP and following it a call asking for the OTP. What should you do?

A. Share the OTPB. Ask the caller why they need the OTPC. Do not entertain the callerD. Block / report the calling numberE. Check how the caller was generated the OTP

#### Answer: C, D and E.

If you ever find yourself in such a situation, it is most likely a scam, never share the OTP. Do not entertain the caller as they are trained to convince people on why they need the OTP. Block the caller. Most importantly, check how they were able to generate the OTP. If they reached this stage, most likely it means that some part of the account (card details, username and password etc.) is known to the caller.



What are the benefits of enabling two-factor authentication on online accounts?

It increases the security of account
It enables you to login without password
It increases the privacy of account

Answer: C. Using two-factor authentication increases the security of your account by adding another check before granting access to the account. It can also enable you to login just via OTP instead of a password.

A. IB. 2C. I and 2D. 3



In India, where can one report a cybercrime?

- I. National Cybercrime Reporting Portal
- 2. Cybercrime helpline
- 3. Nearest local Police station
- 4. Nodal cyber cell
- A. I
- B. 2
- C. I and 2
- D. 3
- E. I, 2, 3 and 4

#### Answer: E.

- I. <u>https://cybercrime.gov.in</u>
- 2. Helpline number is 1930
- Nearest Police station 112 / 100 Women helpline number is 181
- 4. Nodal Cyber cell -<u>https://www.rbi.org.in/commonman/Upload/English/Content</u> <u>/PDFs/LNA100112C\_M.pdf</u>









# QUESTIONS

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# **THANK YOU**





# CYBER CRIME VS NOT A CYBER CRIME



### CYBER CRIMEVS NOT A CYBER CRIME

- Cyber Crime Crime in which computers or the internet are used as a medium to commit the crime or are the target of the crime. E.g. Net Banking frauds, fake news, social media account theft, installing malicious software in an unauthorized manner etc.
- Not a Cyber Crime Crime in which computers are used as a mere tool to enable the crime. For example, transferring black money to an offshore account via online banking or kidnappers asking ransom in crypto currency.

