



Protecting Privacy in Cyberspace

CIET-NCERT

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Cyberspace

Anonymity. Lacks borders. rising threats

(C)FIRE NGO,2021



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NCRB statistics-2017



Rising cybercrime on Internet

- According to NCRB, Cases registered up 1.6%; crimes against women rise 7.3%; cybercrimes increased by 63.5%

- During 2019, 60.4% of cyber-crime cases registered were for fraud, sexual exploitation- 5.1% and 4.3% cases for causing disrepute

- <https://timesofindia.indiatimes.com/india/ncrb-crime-data-2019-cases-registered-up-1-6-crimes-agai>

... 7.3% cybercrimes increased by 63.5% / ...

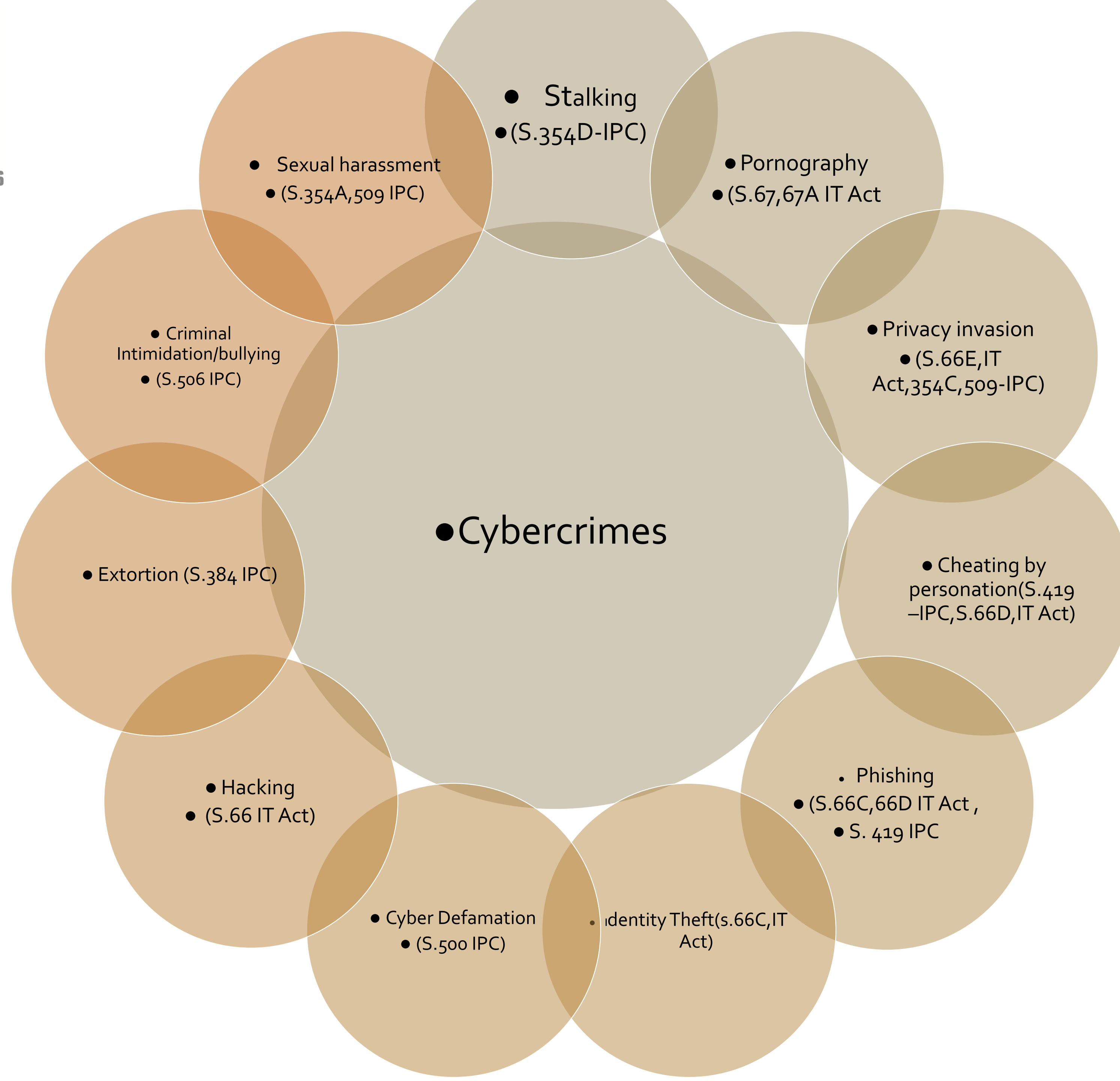
What are cybercrimes?

- Computer Crime, E-Crime, Electronic Crime is where a computer is the target of a crime or is the means adopted to commit a crime.
- Most of these crimes are not new. Criminals simply devise different ways to undertake standard criminal activities such as fraud, theft, blackmail, forgery, and embezzlement using the new medium, often involving the internet.
- Cybercrimes can be categorised based on gravity or nature of offence, or affected target group.





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Need to protect children online



Rise of sexual abuse of children online

- Children on the internet are vulnerable to attacks by paedophiles, child predators, child groomers, cyberstalkers and other cybercriminals
- Motive is sexual gratification and/or commercial exploitation by creating and selling child pornography
- A study published by Ministry of Women and Child development in 2007, reported India has the world's largest number of sexually abused children
- 53% of children in India were reported to have been sexually abused.

- Predators stalk children, steal pictures or threaten them to send obscene pictures, morph the pictures and later extort them
- Children being approached or observed in chat rooms
- Children's identities, location or vulnerability being sourced from material available online
- Deep fakes
- Morphing of pictures
- Child trafficking rackets
- Section 67B bans Child pornography and S.14 of POCSO Act, 2012- 5years imprisonment and fine or both
- Supreme Court of India- Kamlesh Vaswani v UOI case- block child pornography .



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Sexual harassment of women



Offences under IPC, IT Act, 2000

- Trolling
- Stalking
- Hidden webcam
- Invasion of privacy
- Morphed pictures, videos
- Extortion rackets
- Revenge porn
- IT Act-S.67,67A,66E, of IT Act,2000-upto 3 yr term +fine
- IPC-354A,354C, 354D ,509 -upto 3 yr term +fine
- Indecent Representation of women Act
- *Vishaka* Judgment - Sexual harassment against women at workplace Act,2013



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Identity theft & Cheating



- Fake social media accounts and identity theft cases on the rise
- Motive is sexual exploitation or extortion
- Identity theft is punishable under Section 66C of IT Act,2000 with imprisonment of upto 3 years and fine or both.
- Cheating by personation is punishable under SEc.66D ofIT Act,2000 with imprisonment of unto 3 years and fine or both.
- Report to police -100,112,cybercrime.gov.in
- Keep screen shots of evidence



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Find out what your friends are reading, log in with FB here

Enable Social Reading

Jilted lover creates fake Facebook account of woman, arrested

Press Trust of India | Updated: February 25, 2012 10:40 IST

Tweet 3

+1 0

Recommend 14

Reddit this!

Mail

Comments

Ads by Google

Adventure with ATV's flow - Polaris-World's Leading Off Road Vehicles, flow in India. Enquire flow Polarisind.in

Hyderabad: A man has been arrested on charges of creating a fake Facebook account and posting defamatory and obscene comments about a woman, who had rejected his love proposal, Andhra Pradesh police said on Friday.

The accused Mohammed Osman Ali, resident of Nalgonda district created a fake Facebook account of the victim and transmitted vulgar comments stating that the victim was going to deliver a baby shortly, officials of Cyber Crimes Cell in the CID said.

Following a complaint, Cyber Crime sleuths analysed the Internet Protocol (IP) log details and identified Ali and arrested him from Nalgonda.

Most Recent

Priyanka Chopra's song is on at least one celebrity iPod

During interrogation, the accused confessed that he had developed affection and love for the woman, but she and her family members had rejected his proposal.

After his proposal was rejected, he bore a grudge against the

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Advertisement

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TRENDY SUNGLASSES
Flat **80% Off**
For Only **₹ 299**
Buy Now

Services



Diamond Rings



Home loans



Gifts for him

Jewellery

Property

Local Search

Find a Property to Buy or Rent





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Phishing

Vishing. phishing. smishing
rackets

- Never reveal OTP
- Keep two step verification
- Do not share passwords with anyone
- Keep password manager to secure passwords
- Fake lottery /employment mails
- Use of key loggers /malware /spoofing tools /fake emails
- Sec 66 of IT Act,2000 -3 year term of punishment, Sec 420 IPC cheating-non bailable offence

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IT Act,2000 -offences



phishing/identity theft/cheating

- Compensation can be claimed for unauthorised debits to any bank account under Section 43 r/w Section 46 of IT Act,2000
- Section 66 – Punishment for hacking
- Section 66C- Punishment for Identity theft
- Section 66D -Punishment for Cheating by Personation
- Section 66F - cyberterrorism
- Section 420 IPC-cheating

- Preserve screenshots of evidence
- Report it to Bank immediately if account/ plastic card data gets compromised
- Block credit cards /debit cards
- If bank server is hacked- zero liability for customer or when he reports fraud on immediate basis as per RBI mandates.
- Register police complaint –cybercrime.gov.in
- Emergency Helpine-112



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Online safety

Best practices

- Need for cyberawareness in schools
- Regular sensitisation of parents , teachers, students by schools through workshops on online safety
- Use of tracking software /filtering software
- Need for sex education
- Internal complaints committee against sexual harassment
- Building trust to keep communication open and transparent with teachers, parents
- Need for IT policy/home rules for internet usage
- Below 13 years -no social media account to be opened

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Fake donation handles during Covid times!

- In one case registered by Delhi Police a fraudster created a fake UPI ID for PM cares Relief Fund. While the correct UPI ID is 'pmcares@sbi', someone created a fake id as pmcare@sbi.
- Beware of fake NGOs/fake ads for donation
- **FAKE UPI IDs**
- pmcares@pnb
- pmcares@hdfcbank
- pmcare@yesbank
- pmcare@ybl
- pmcare@upi
- pmcare@sbi
- pmcares@icici
-



Advisory by Delhi Police



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86% rise in Frauds during lockdown

SMS on donation schemes or offers on essential items like masks, sanitisers, fake testing kits, vaccines,

Fake links on sms/email/whatsapp

Fake therapists/astrologers

Fake apps/infected links

Fake online apps

Dark web- selling blood of corona patients who recovered

The screenshot shows a news article from ET (Economic Times) titled "Online donations for coronavirus: Delhi Police wants you to remember this". The article is dated April 2, 2020, at 10:35 AM IST. The main text reads: "NEW DELHI: After fighting fake news and rumours, the Delhi Police cyber cell is now gearing up to fight frauds and fake relief schemes. The Delhi Police is warning citizens to be very careful while donating for coronavirus relief as fake donation schemes are being floated by fraudsters to make a". The article includes a photo of a police officer in uniform standing near a banner that says "OUR LIVES TO KEEP SAFE. STAY SAFE DELHI POLICE". There are social media sharing icons for Facebook, Twitter, LinkedIn, and a comment icon with the number 5. A "Learn more" button is visible below the article. The browser's taskbar at the bottom shows several open windows, including one with the file "11.png" and another with "mb-breathing-exer...jpg".



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Tools to Detect fake news!



- Read Newspaper websites/official news handles /PIB reports/official govt websites /official news sites
- WHO Website/ official websites of Other Countries / Govt
- Detect fake video- slow/incomplete/deep fake/doctored/geo location properties
- **Websites that detect fake news-**
 - Botometer
 - Factcheck.org
 - Snopes
 - Hoaxy
 - Metafact
 - Boom
 - Altnews
 - **Google Reverse image search**
 - **Youtube data viewer**
 - SM Hoaxslayer
 - Times Internet has *TOI Factcheck* and The Quint has *WebQoof*



Advisories by CERT-IN During Covid FIRE

SETH ASSOCIATES Advisories on using secure videoconferencing platforms

Cyberlaw Group had issued an **advisory on 20.03.2020 to intermediaries particularly major social media platforms to curb fake news/misinformation** related to corona virus.

2. **"CORONAVIRUS PANDEMIC [COVID-19] BASED CYBER ATTACKS"** (23 March 2020)

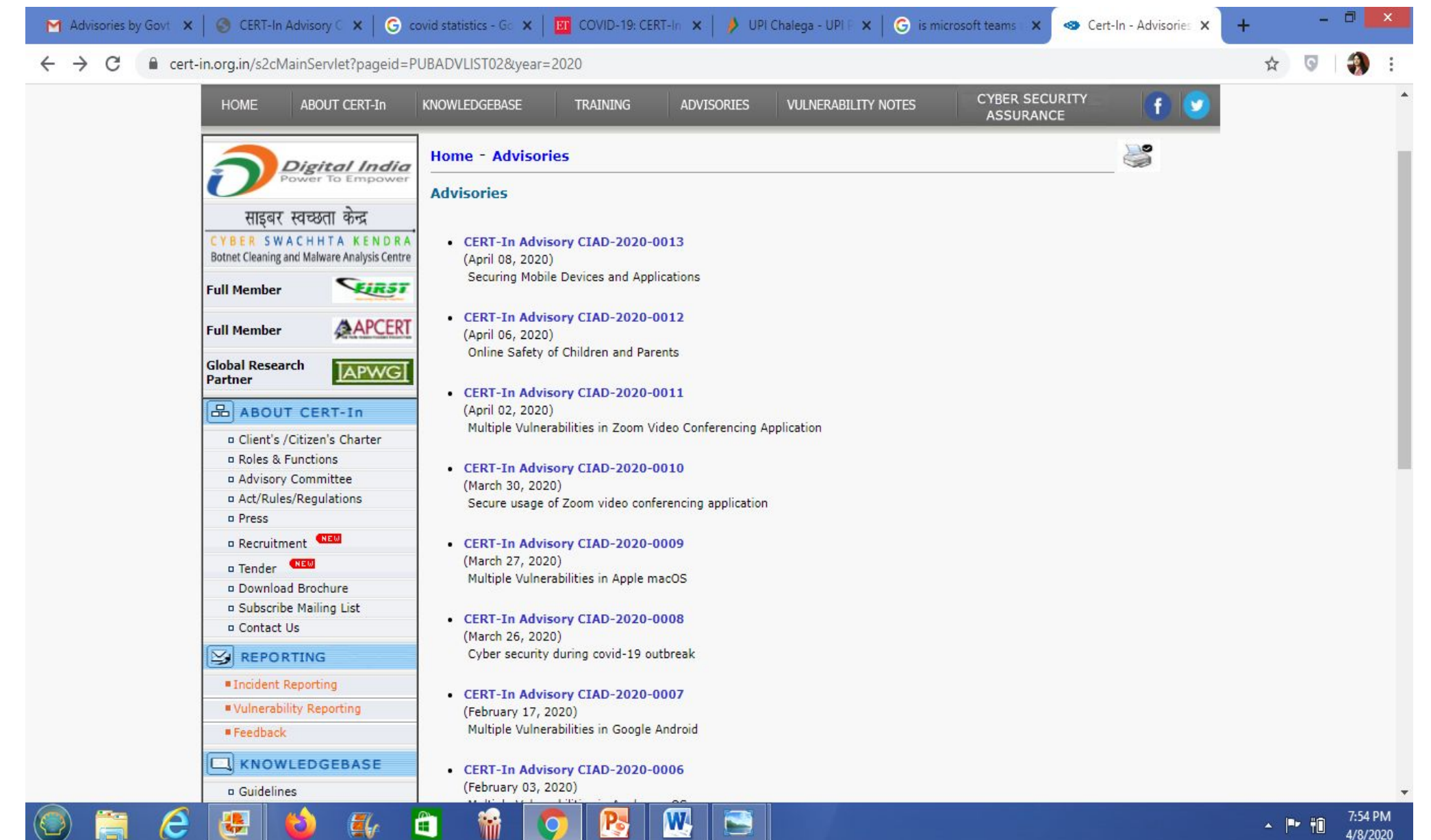
3. **Cyber security during covid-19 outbreak** (26 March 2020)

4. **Fake UPI IDs circulated** on the pretext of "Prime Minister's Citizen Assistance and Relief in Emergency Situations Fund" (30 March 2020)

5. **Secure usage of Zoom video conferencing application** (30 March 2020)

▪ Strong passwords-zoom software patched and uptodate

▪





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Safeguard your privacy online



- Art. 21 of Constitution of India-Right to privacy-a fundamental right- Justice K.S Puttaswamy case
- Requirement of consent to collect, process, store personal data, update and delete data
- Terms of use, privacy policy mandatory
- Clickwrap agreement -legally valid
- Apps /websites-collect more than required information
- Obligation to protect personal data -Section 43A of IT Act,2000
- Role of Adjudicating Authority
- Grant of Compensation



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Protection under Indian cyberlaw



Safeguarding personal data

Section 2(1)(v)- information

- Includes data, message, text ,images, sound ,voice, codes, computer programmes, software and databases or microfilm or computer generated microfiche
- Section 66- computer related offences includes hacking upto 3 years of imprisonment + fine
- Section 43- compensation for damage to computer, computer system . Includes unauthorised access to computer/data, unauthorised copying of data (from system/removable storage),damage to computer/data, denial of access, disruption of computer, destroys, deletes, alters information, or diminishes its value or utility or affects it injuriously
- objective criteria laid down for guidance maintained-Amount of unfair advantage gained, amount of loss, repetitive nature of default



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PDP bill, 2019



- . Justice Srikrishna Committee report
- . PDP bill, 2019 - Personal data includes religious, political preferences, sexual orientation etc. Excludes Passwords
- . Expanded the definition of personal data to include inferred data. Sec. 3(28) includes - "... and shall include any inference drawn from such data for the purpose of profiling".
- . Applicable to government as well as private entities.
- . creation of a separate data protection

Overview of Justice Srikrishna Committee Report

DR. KARNIKA SETH



PDP bill ,2019- personal data protection

- Consent of user should be clear, express and informed
- Collect only what is necessary
- processing of data should be minimal and only for the purpose for which it is sought
- **Participation right**-confirm, access, and rectify the data,right to object to data processing, right to be forgotten
- Right to erasure of data
- Data transferred outside India by Data Fiduciary only with explicit consent of user,Contractual clauses to maintain security of data, approval of Data Protection Authority
- Mirror copy to be saved in Indian Servers
- Very sensitive data such as health record to be saved in Indian Servers
- **Similar to GDPR in Europe.**



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Legal recourse against cybercrime



- A victim of cybercrime needs to immediately report the matter to his local police station and to the nearest cybercrime cell .
- Collect evidence of content, date and time and take screen shots and report it to nearest police station. Take advice of cyberlaw expert.
- Depending on the nature of crime there may be civil and criminal remedies.
- In civil remedies , injunction and restraint orders , blocking of websites, may be sought, together with damages, delivery up of infringing matter and/or account for profits. 36 hr deadline for blocking or approach court.
- Call police helpline, 1112, 100, 1098. Report at cybercrime.gov.in
- In criminal remedies, a cybercrime case will be registered by police if the offence is cognisable and If the same is non cognisable, a complaint should be filed with metropolitan magistrate
- For certain offences, both civil and criminal remedies may be available to the victim



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Best practices for cyber safety

- Keep your private information private. Information posted once cannot be permanently deleted from internet such as phone number, pics
- Choose security & privacy settings carefully.
- Keep your software and OS uptodate
- Use good antivirus and antispysware
- You can choose to remain anonymous-use Tor or other tools
- Use DNC registry/block abusers/invaders/report abuse
- Wifi Should be closed when not in use and secured by a password.
- Donot click on any attachments/download any free software without antivirus check
- Read terms of use when taking a service & read consumer reviews about it
- Type url of a website you want to access than using search result.To check if website is secure look for https in the url.
- Adopt 2 factor authentication
- Maintain backup, use good antivirus, strong passwords and keep it confidential.
- remember to log off from account if using a cybercafe.
- Make use of virtual keyboard when typing password.
- Register for mobile and email alerts, register for OTP verification to access your email account.
- Don't discard old phone/tablet without deleting at zero level all information stored in it.
- Donot leave your phone unattended or without password protection with anyone.
- Use good password manager solution



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Safeguarding office data



- Built-in Encryption, both Apple (FileVault) and Microsoft (Bitlocker) offer native tools in their OS's to support For businesses, deploy Data loss prevention software
- Prepare IT policy/WFH policy **for** your organisation
- Audit of system security & data
- Regular backups
- Use of digital signatures to protect data and confidentiality
- Strong password managers
- Adopting robust firewalls/VPN
- Security awareness training



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National Cybercrime Reporting portal-cybercrime.gov.in

TruthShare: Universal solution | OneDrive for Business | CERT-In Advisory CIAD-2020-00 | covid statistics - Google Search | Cyber Crime Portal

cybercrime.gov.in/Webform/crmcondi.aspx

हिन्दी

गृह मंत्रालय
MINISTRY OF
HOME AFFAIRS

National Cyber Crime Reporting Portal

स्वच्छ भारत
एक कदम स्वच्छता की ओर

Indian Cyber Crime Coordination Centre

HOME | REPORT WOMEN/CHILD RELATED CRIME | REPORT OTHER CYBER CRIME | RESOURCES | CONTACT US | HELPLINE

Filing a Complaint on National Cyber Crime Reporting Portal

This portal is an initiative of Government of India to facilitate victims/complainants to report cyber crime complaints online. This portal caters to complaints pertaining to cyber crimes only with special focus on cyber crimes against women and children. Complaints reported on this portal are dealt by law enforcement agencies/ police based on the information available in the complaints. It is imperative to provide correct and accurate details while filing complaint for prompt action.

Please contact local police in case of an emergency or for reporting crimes other than cyber crimes. National police helpline number is 100. National women helpline number is 181.

[Learn about cyber crime](#) [File a complaint](#)

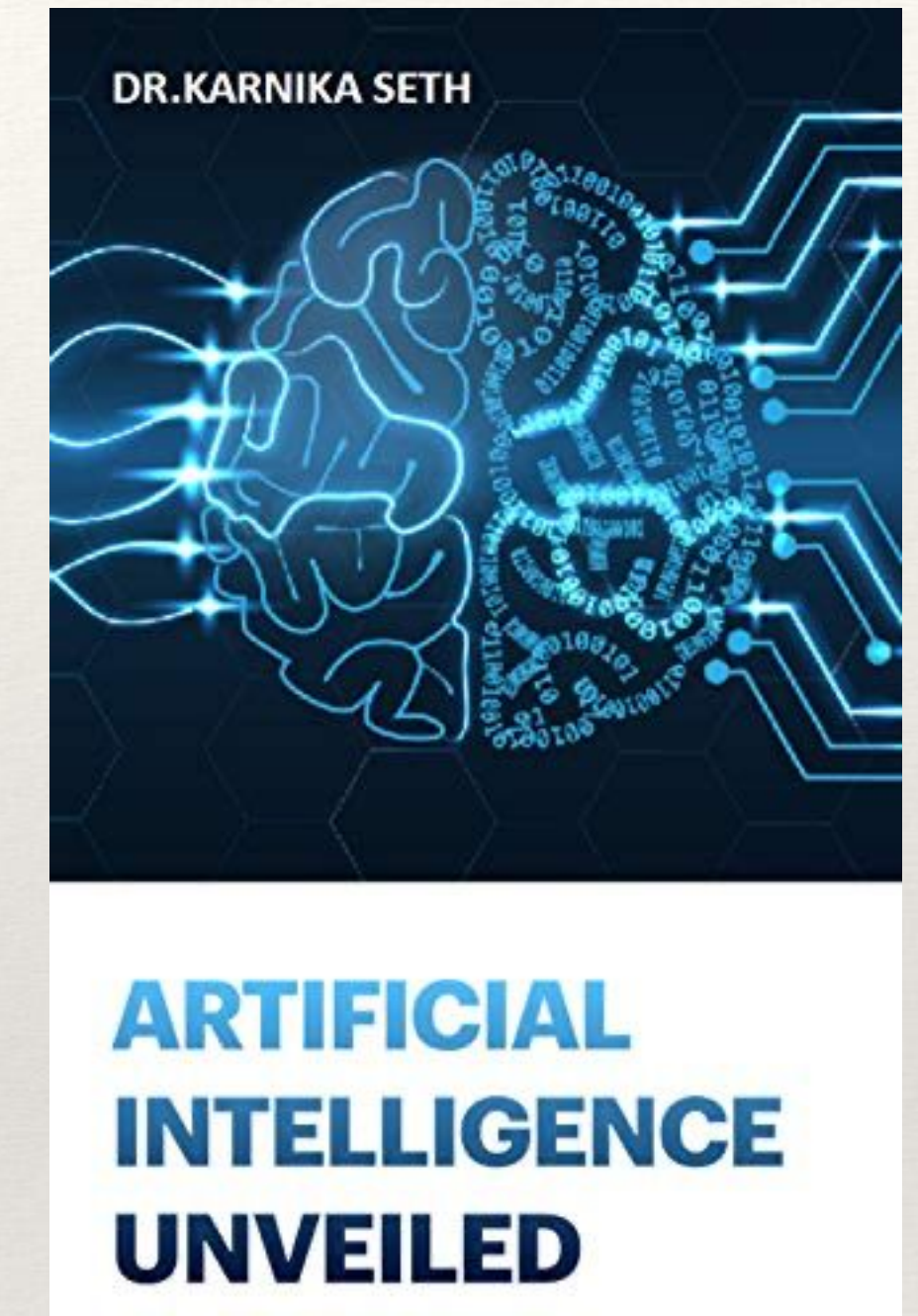
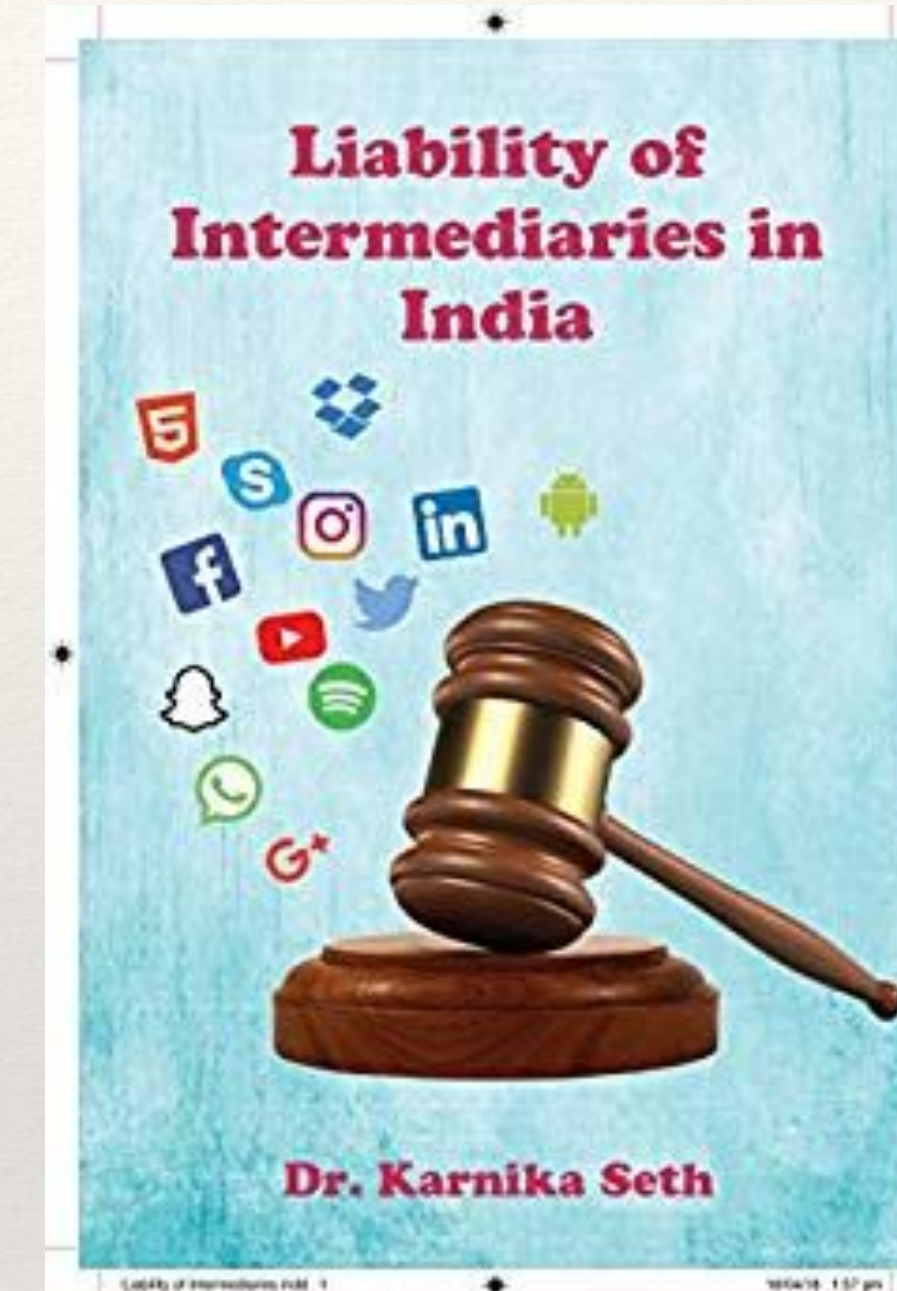
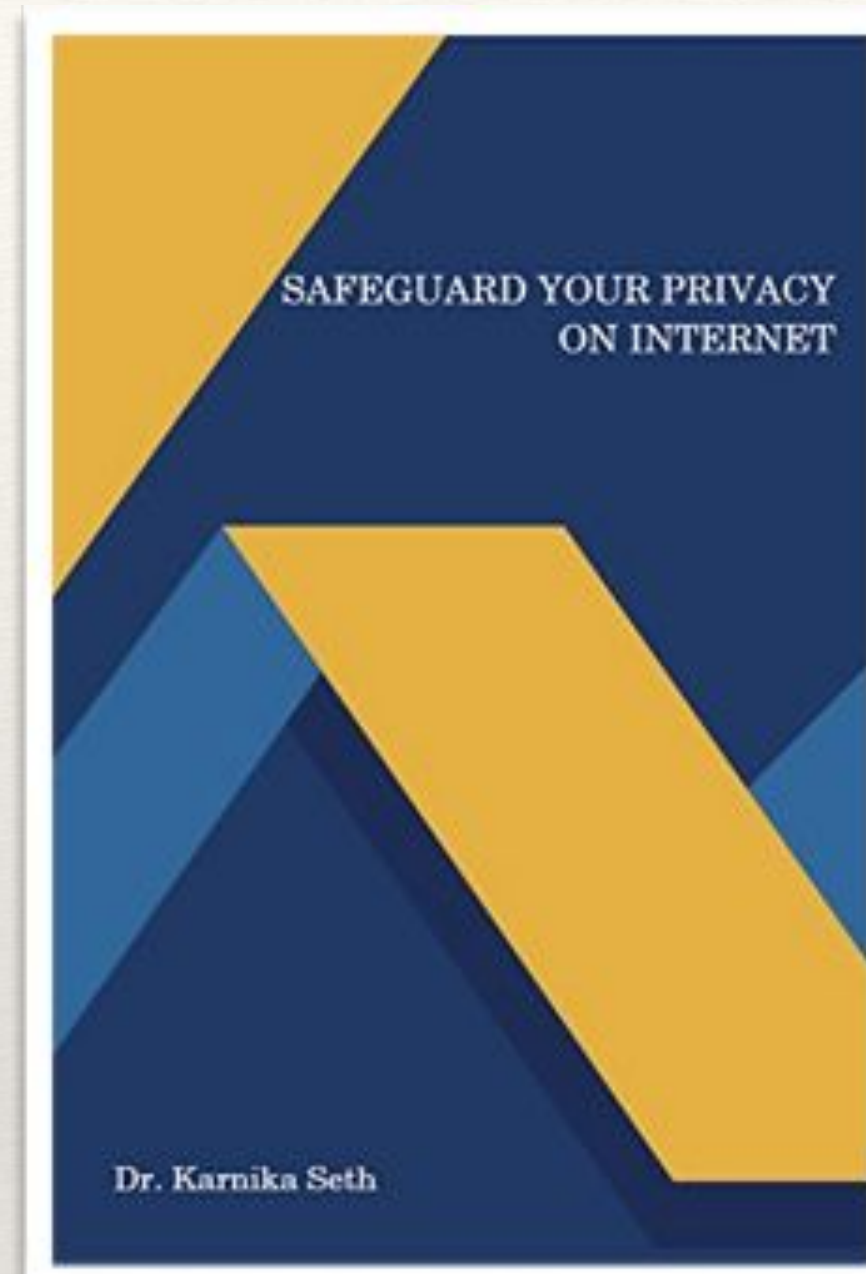
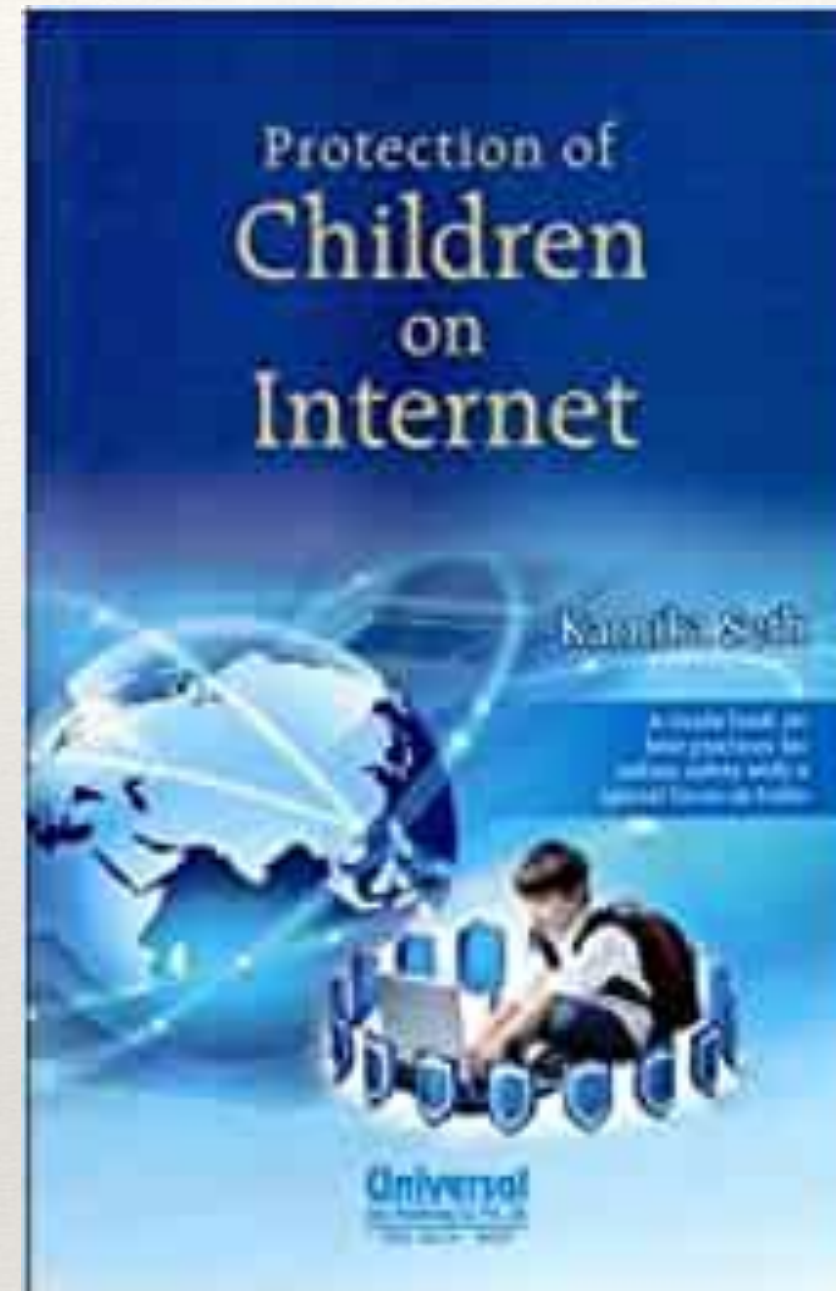
certin india.gov.in CYBER

9:42 PM 4/8/2020



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Useful resources-Books Authored by Dr. Karnika Seth
More at sethassociates.com , www.firengo.com,
[youtube channel-CYBERLAW INDIA](https://www.youtube.com/channel/CYBERLAWINDIA)





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Free app on apple –IT Act & Cyberlaw India by Dr. Karnika Seth

App Store Preview

IT Act 2000 & Cyber Law India 4+

Karnika Seth

★★★★★ 5.0, 1 Rating

Free

Screenshots iPhone iPad

- Lex Cyberia: IT ACT, 2000
- Lex Cyberia: CYBER DICTIONARY
- Lex Cyberia: OVERVIEW OF CYBER LAW IN INDIA
- Lex Cyberia: CYBER LAW CASES
- Lex Cyberia: GENERAL CYBER SAFETY TIPS

Lex Cyberia: IT ACT, 2000

- PREAMBLE
- CHAPTER I: PRELIMINARY
- CHAPTER II: DIGITAL SIGNATURE AND ELECTRONIC SIGNATURE
- CHAPTER III: Electronic Governance
- CHAPTER IV: ATTRIBUTION, ACKNOWLEDGMENT AND DISPATCH OF ELECTRONIC RECORDS
- CHAPTER V: SECURE ELECTRONIC RECORDS AND

Lex Cyberia: CYBER DICTIONARY

- Access
- Android
- Anti-virus
- Attachment
- Backup
- Blog
- Bot attack
- Browser

Lex Cyberia: CYBER LAW CASES

- CASE ON DEFAMATORY MATERIAL ON THE INTERNET
- Shreya Singal v UOI- W.P167/2012
- Vyakti Vikas Kendra, India Public vs Jitender Bagga- Order dated 09.05.2012 in I.A. No. 8877/2012
- Nirmaljit Singh Narula vs Indijobs At Hubpages.Com -Delhi High Court CS (OS) No. 871/2012



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