





- 15 eye-opening sketches to ensure online safety of girls

www.cybersafegirl.com



Dr. Ananth Prabhu G, is an

Author, Software Engineer, Motivational Speaker and Cyber Security Expert. Currently serving as the Advisor for Vikas group of institutions, Professor in Sahyadri College of Engineering and Management. He is also the trainer at Karnataka Police Academy, Mysore and Police Training School, Gulbarga for Cyber Law, Cyber Terrorism and Security.



Mr. Vivek Shetty, is an entrepreneur and social activist.

# CYBER SAFE GIRL Beti ko Bachao, Cyber Crime Se

15 eye-opening sketches to ensure online safety of girls First Published in India in 2019

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Sanjay Sahay, IPS



Dr. Vedamurthi CB, IPS Uma Prashanth, KSPS







Arun Chakravarthy, IPS Roopa D, IPS





Reena Suvarna, KSPS



Yogesh Kumar, PI



Savithra Tej, PI



Prashanth Jhala Cyber Law Consultant & Cyber Crime Investigator



Tapan J Mehta Founder Indian Cyber Institute Cyber Crime Consultant and Financial Crime Investigator



Naga VRK Basava SEO Guru

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#### **FORFWORD**

Cyber Crime is a global phenomenon which hampers the privacy and security of a person online. Women are often the soft targets. There are people who are on the lookout for personal information, like passwords, bank details, etc. Apart from that women are often harassed, stalked and threatened in the virtual world.

Your Facebook/Twitter status and photos say a lot about you. A determined person may already have found out that you're a woman, details about where you live and whether you are currently alone. With that post, the bad guy could set you up for a robbery or even a physical attack.

I congratulate Dr. Ananth Prabhu G and Vivek Shetty for coming out with this wonderful booklet depicting 15 real time scenarios. Also, the safety measures to be taken for online safety would keep you protected from various crimes, helping you to build your protective cocoon online. After all, awareness is the key and everyone must engage in responsible internet surfing.

Remember, that prevention is better than cure. Be ready to fight this war against cyber crime. STAY SAFE ONLINE!

With respectful regards, **Hanumantharaya** IPS

DCP L & 0

Mangalore City Police



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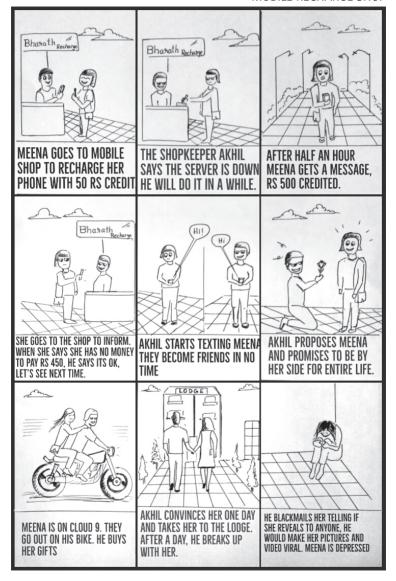
MOBILE RECHARGE SHOP
DEBIT CARD CLONING
KEYLOGGER
SMS SPOOFING
CALL SPOOFING
RANSOMWARE
CYBER STALKING
PICTURE MORPHING
PROFILE HACKING
ONLINE GAMES
JOB CALL LETTER
DEEPFAKES
DATING WEBSITE
CAMERA HACKING

**SOCIAL TROLLING** 

# MOBILE RECHARGE SHOP

A Mobile Recharge Shop is a place where scamsters can gain access to your cellphone number because you have provided it to the recharge vendor. This number is then misused to call or text you and exploit your ignorance or even emotionally manipulate you.

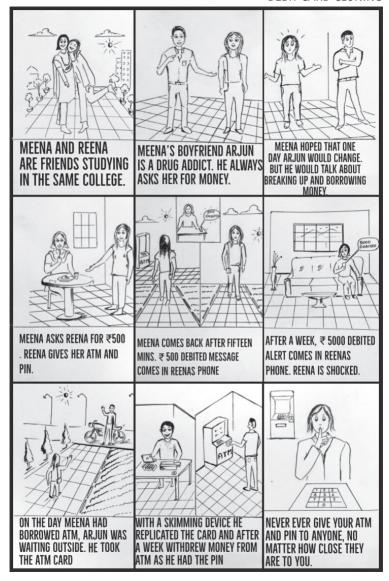
#### MOBILE RECHARGE SHOP



# **DEBIT CARD CLONING**

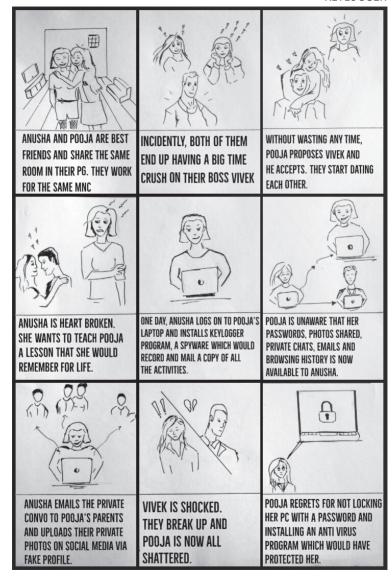
Debit Card skimming happens when the PIN is revealed to another person. A scamster who knows the PIN and has possession of the card even for a short while can replicate the card with a skimming /schimming device and withdraw cash.

#### DEBIT CARD CLONING



### **KEYLOGGER**

It is a malicious program that may be installed in the victim's computer for recording computer user keystrokes to steal passwords and other sensitive information. With Keylogger a scamster will be able to collect login details and other matter saved in the computer and have them mailed to a designated email address.



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Shopping Online has to be done keeping guidelines in mind, or else one can become a victim of phishing from fake websites and message spoofing from unscrupulous elements.



# CALL SPOOFING

Call spoofing happens through apps that enable a person with criminal intent to change one's number and voice to impersonate another to defraud the receiver.



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SHABANA REALIZED THAT SHE

SPOOFING AND ENDED UP

SCAMSTER.

TRANSFERRING MONEY TO A

HAD BECOME A VICTIM OF CALL

USING CERTAIN APPS, ANY

NUMBER CAN BE FAKED FOR

PEOPLE.

CALLS AND SMS. SCAMSTERS

USE THIS TECHNIQUE TO TRICK

HER SON, SHAFIQ IS

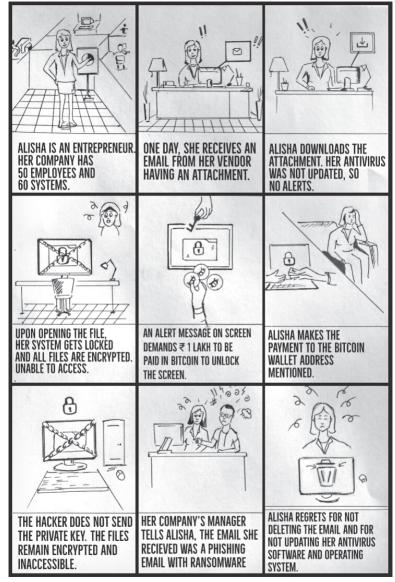
ALL.

SURPRISÉD AS HE HAD NOT

CALLED HIS MOTHER AT

# **RANSOMWARE**

Ransomware is a type of malicious software that threatens to publish the victim's data or perpetually block access to it unless a ransom is paid. It gains access to data through being downloaded as an attachment in a mail.



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Cyberstalking is the use of the Internet or other electronic means to stalk or harass another by misusing information uploaded on social networking sites.

#### CYBER STALKING



JUVERIYA IS AN NRI, COMPLETED HER SCHOOLING FROM THE US AND IS NOW IN INDIA TO PURSUE HER ENGINEERING. SHE LIVED HER LIFE TO THE FULLEST.



WHATEVER SHE DID, HAD TO GET UPLOADED ON SOCIAL MEDIA. OH YES, SHE HAD MORE THAN 10K FOLLOWERS.



SHE USED THE CHECK IN FEATURE ON FACEBOOK TO INFORM HER FRIENDS AND FOLLOWERS ABOUT HER WHEREABOUTS. HER LIFE HAD MINIMUM PRIVACY.



ONE DAY SHE DECIDES TO GO TO GOA ON A SOLO TRIP. SHE UPDATES HER PLANS ON HER WALL WITH ITINERARY.



KIRAN, A STALKER USED TO KEEP TRACK OF ALL HER DETAILS. HE WAS A HABITUAL OFFENDER AND WAS OUT ON BAIL RECENTLY.



HE TAKES A BUS TO GOA AND TEXTS JUVERIYA FROM HIS HOTEL ROOM AND EXPRESSES HIS DESIRE TO MEET HER.



AFTER CHECKING OUT HIS PROFILE, JUVERIYA BLOCKS HIM, UNAWARE ABOUT WHAT FATE HAD PLANNED FOR HER SHORTLY.



AS KIRAN HAD HER ITINERARY, HE FOLLOWS HER TO THE BEACH AND MOLESTS HER WHEN THERE WAS NO ONE AROUND. KIRAN ESCAPES.



JUVERIYA IS FEELING TERRIBLE AND REGRETS FOR NOT LIMITING HER IMAGES, CHECK IN DETAILS AND OTHER RELATED POSTS ON SOCIAL MEDIA.

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# PICTURE MORPHING

Morphing the face of a person to the body of another and publishing it to blackmail or otherwise intimidate the person is one of the ways by which people who upload photos on social networking sites can be exploited.

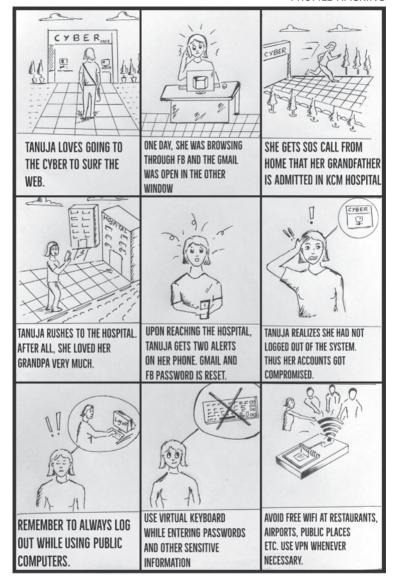
#### PICTURE MORPHING



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Profile Hacking happens when your email or social networking site is accessed by a probable stalker who then compromises it.

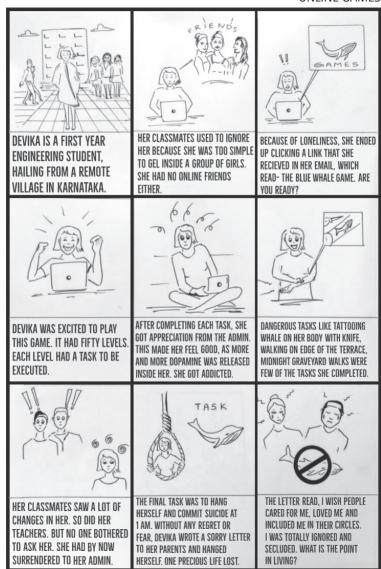
#### PROFILE HACKING



# **ONLINE GAMES**

Girls who are vulnerable to loneliness, low selfesteem and clinical depression can fall prey to dangerous online games that may become addictive and further harm them. Some like the notorious blue whale challenge even end in the victim ending her life. This is a personal as well as social challenge for the others around.

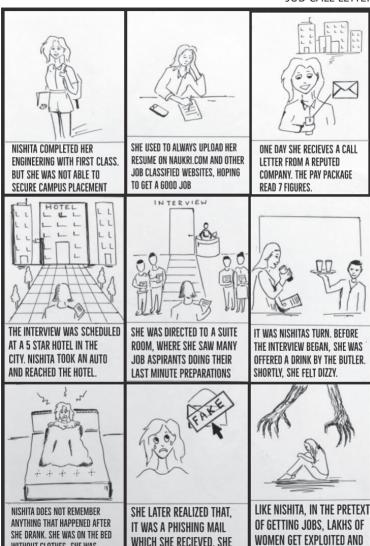
#### ONLINE GAMES



# JOB CALL LETTER

Websites offering jobs need to be checked for veracity and authenticity. Mails need to be double-checked and verified before one responds and acts on instructions provided, especially if one is asked to put in a personal appearance.

#### JOB CALL LETTER



DID NOT VERIFY THE DETAILS

MANY GET ROBBED OF MONEY

WITHOUT CLOTHES. SHE WAS

EXPLOITED.

# **DEEPFAKES**

Deepfake is a technique that is used to combine and superimpose new images and videos onto source images or videos. It is used to create videos where the voice or face of another is superimposed on the original in such a way that the viewer or listener cannot distinguish or doubt the veracity of it.

#### **DFFPFAKES**



MEDIA.

OTHER TOOLS

SOCIALMEDIA.

# **DATING WEBSITE**

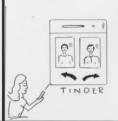
Females can be emotionally manipulated by smooth talkers on dating sites. Any private pictures or texts that they send across to probable dating companions on such sites are fair game for unscrupulous persons who can then blackmail them.



RASHMI IS A FIRST YEAR MBBS STUDENT. SHE WAS RECENTLY CROWNED AS MISS FRESHER.



SHE USED TO ALWAYS TALK TO HER FRIENDS ONLINE. BUT SHE WAS BORED OF TALKING TO THE SAME PEOPLE.



ONE DAY SHE REGISTERS ON TINDER AND STARTS SWIPING LEFT AND RIGHT.



SHE HAPPENS TO COME ACROSS SHAKS, A VERY GOOD LOOKING GUY, CLASSY, HAS LUXURIOUS CARS, PARTIES, TRAVELS ETC.



SHAKS BEING A SMOOTH TALKER, HE IMPRESSES RASHMI WITH HIS CHARMS AND THEY START TEXTING, LATE NIGHT CALLS AND FINALLY DECIDE TO MEET THE NEXT DAY.



SHAKS TAKES HER TO THE BEST HOTEL IN TOWN FOR A CANDLE. LIGHT DINNER. RASHMI KNOWS FOR SURE, THIS GUY IS HER PRINCE CHARMING.



AFTER A COUPLE OF DAYS, SHAKS TELLS RASHMI THAT HE URGENTLY NEEDS 2 LAKHS AS IT OFFICERS HAVE FROZEN HIS ACCOUNT. SHE SELLS HER GOLD CHAIN AND GIVES HIM THE MONEY.



SHAKS BLOCKS HER. LATER, THROUGH ONE OF HER FRIENDS SHE GETS TO KNOW THAT SHAKS WAS A MARRIED MAN AND HE USED TO CON WOMEN LIKE THIS

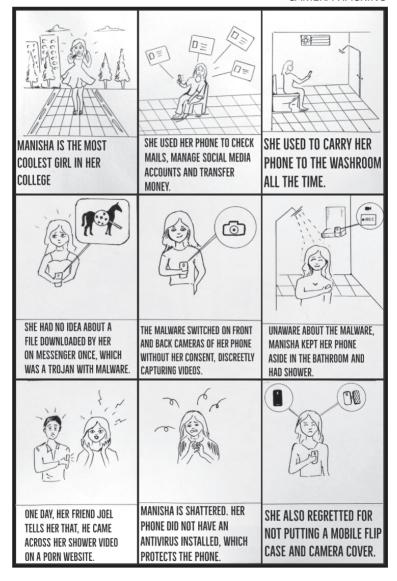


SHE ALSO REGRETS FOR TRUSTING THIS STRANGER SHE CAME ACROSS ON THE DATING SITE AND SENDING HIM PRIVATE PICTURES AND VIDEOS.

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Camera hacking happens when photographs of a person are taken without consent, through malware that got downloaded with an attachment. Phones with no camera guard can be exploited for such criminal activities.

#### CAMERA HACKING



# **SOCIAL TROLLING**

Social Trolling is posting inflammatory messages or visuals about a person or organisation in an online community with the express purpose of causing humiliation or nuisance to the object of trolling.

#### SOCIAL TROLLING



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#### **BONUS TIPS**

# Women and Cyber Crimes

**1. Social Engineering:** It is easy to hack into the mind of a person using a communication device or a computer system rather than hacking into the communication device or computer system that he or she is using.

Since we are wired to talk and give out information even to strangers, we fall pray to this modus operandi adopted by criminals. We get calls from Banks for cards and loans, Insurance Companies, Holiday Home providers, IT department, RBI, online market places etc but do we really check the credentials of the caller? We trust thecaller and give out information that goes into our profiling for which the very call was made to us!

Preventions: It is said 'Speak Less than you Know and Have more than you Show'. Thus 'Tell Less about you and Know More about a few.'

**2. Revenge Porn:** Pictures and photos clicked in good times with your friends and acquaintances inadvertently may come to haunt you in future when the relationships get sour or when there is a family feud.

Preventions: Click less pictures with friends and acquaintances and follow the rule of 'Beware'.

**3. Voyeurism:** Privacy breach is biggest concern with advent of pin hole cameras and latest spy cams that can be hidden and are not easily detectable. Could be hidden in shopping malls, changing rooms, washrooms, hospitals and diagnostic centers, and also in offices and washrooms located in private offices.

Preventions: Though no concrete solution for this crime, but a random check on suspicious objects like window blinders, curtain and curtain rods, flower pots, murals, photo frames, bulbs, night lamps, drawers and any hanging objects on the walls may be carried out.

**4. Cyber Stalking:** Stranger following you on various social media platforms, chatrooms, messengers etc and causing you to fear and raise an alarm against them.

Preventions: Avoid interacting with strangers. Do not agree with them but do not be rude with them because some cases observed revealed that the stalking was done due to ego clashes.

**5. Cyber Bullying:** Sending tormenting post, harassing messages, threatening contents to a minor to cause mental harassment and depressive or suicidal state of mind to the recipient of such messages.

Preventions: Share those messages and posts with your Parents or teachers who are matured enough to understand the gravity of the matter and act accordingly. Do not keep on facing or enduring these troubles.

**6. Photo editing Apps:** These apps that you use to beautify yourself are also known to retain your original copy of the photo you have uploaded and even the copy of the edited version is saved on their servers. You can only wonder what next would they do with the copy of your photos!

Preventions: Use reputed apps that you should be downloading from secured App stores. The fake photo editors may cause you harm and edit your lifestyle if used by them with criminal intent.

**7. Free Downloads:** With every free downloads of music, videos, games, file sharing sites, software's, apps, e-books etc please also be ready to receive computer contaminates by way of worms, virus, trojans, malwares,

spywares, key loggers etc for FREE. Your communication device or your computer systems gets Freely compromised due to your Free downloads.

Preventions: Verify the Apps, Tools, Websites, Portals, Online Market Place, File sharing sites, Gaming sites from which you are downloading stuffs by carrying out reasonable searches using prudence.

**8. 'I accept', 'I agree':** It is easy to accept the terms and conditions before downloading that app or software or game or e-book or music or video that you want it on your digital devices. But before that, understand at what cost are you giving permissions!

Preventions: 'Look before you Leap' and so 'Read before you Tread' just before hitting on the 'I accept' or 'I agree' tab.

**9.** Password/Passphrase: Password may be a single word but a combination of more words would be a Passphrase. A Passphrase is more secured than a Password. Since you are being asked to create the Passwords, use all that is available on a keyboard to create one. Change it often. Use different passwords for different accounts.

Preventions: Passwords having a dictionary meaning are easy to crack. You are the creator of your own destiny thus create a complex password that is also easy to remember thereby safeguarding your online destiny. Never Share it with anyone Ever.

10. Webcams may reveal privacy: Cases have been reported wherein a trojan (which gives privileges and remote access to the implanter) was activated without the knowledge of the owner of a laptop and his/her pictures and moments of privacy were clicked and uploaded online on porn sites.

Preventions: Use a masking tape on the camera of the web cam on your laptops/desktops. As for your mobile phones, keep a piece of cloth or a

handkerchief or a newspaper because they have cameras on both the sides

11. Social Media Platforms: Do you meet and entertain a stranger in your real life? Why interact and entertain them in the virtual world too? Cheats, fraudsters, cyber criminals are waiting for you to accept their friends request. Investigations have also revealed that most of the time a request coming from a young female turns out to be a male. Anonymity is a biggest boon for cyber criminals. Also keep a tab on what you share and with whom you share with on these platforms.

Preventions: Care before you Share. Remember that Offline destiny is created by Daring but Online destiny is created by Sharing. Your Offline and Online values should match. Also remember 'Rock with your Friends but Block the ones who Offends'.

- **12. Use licenced operating systems:** use a licenced version on your devices and not cracked versions. They enable great amount of security which is the outcome of strong research and development that is adhered to by these providers. Update the operating system with latest patches and versions.
- **13.** Use licenced Antivirus: Just as there are Antibiotics for curing diseases in a human body, so we have Antiviruses for curing diseases in digital devices. Update the antivirus by downloading patches. Just as 'Catches wins Matches' so also 'Patches wins Glitches' (in your digital devices).
- 14. 'The Time is Ticking' but it shall Tick faster with disaster by wrong 'Clicking': so click less pictures and videos, click less on unknown links, click less on executable files, click less on free downloads, click less on personal details (while sharing), click less on apps that you do not

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intend to use, click less on suspicious sites or unknown sites, click less on posts that offers you huge discounts, click less on images, messages and posts that are not useful to you. Ideally you should be averse on Clicking on all above.

**15. Report:** a cybercrime of any nature and gravity should be reported at the police station or Cyber Cell. It is always advisable to place it on records with the authorities concerned. This will not only help the police to investigate the crime that you have faced but will also help them to understand and analyse the modus operandi of the criminals and take corrective actions for preventions and detections.

#### Article by:

Advocate Prashant Jhala is a Cyber Lawyer from Mumbai. He is Co-Founder of Indian Cyber Institute (indiancyberinstitute.com) which runs educational and training programs in the field of Cyber Crime Investigation, Computer Forensics, Ethical hacking and Information Security, Cyber Law etc. He has been instrumental in training the law enforcement agencies across the country. He is a regular speaker and trainer at various banking forums and workshops/events/seminars organised by Information and Technology stake holders.

Cyber safety is an immeasurably important set of guidelines/rules/ideas to follow when interacting with people or websites on a computer, typically through the internet. When you use the internet you are making connections to strangers, as well as their



servers, so it is extremely important to understand the risks of online behavior. If you are not careful you can very easily end up having your identity stolen, your credit ruined, and your files gone forever.

I am glad that Dr. Ananth Prabhu and Mr Vivek Shetty have come out with this wonderful eBook – #CyberSafeGirl which would definitely help millions of girls browsing the internet. Taking my father G H Ramachandra jis dream forward of ensuring a safe and inclusive society, I promise to extend my full support for this noble cause.

With regards and best wishes.

Jagdish R Chandra

Don't be a victim of cyber crime.

Be a #CyberSafeGirl



