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## CYBER SECURITY & DISINFORMATION

WAY  
FORWARD

THE  
ATTACKS

- Cyber security focuses on protecting and defending the networks and our digital life.
- Disinformation is similar to the attack & compromise of our cognitive being.
- It can create social discord, increase polarisation, and can influence the election results.

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### COGNITIVE HACKING

- **Meaning:** Cognitive hacking is a threat from disinformation.
- It attempts to change the target audience's thoughts and actions, galvanise societies and disrupt harmony using misinformation.
- The goal is to manipulate the way people perceive reality.
- The storming of the U.S. Capitol on January 6, 2021, is a prime example of the effects of cognitive hacking.
- The implications of cognitive hacking are more devastating than cyberattacks on critical infrastructure.
- Revolutions throughout history have used cognitive hacking techniques to overthrow governments and change society.

- major targeting areas are critical infrastructure nationally important establishments.
- Cyberattacks are aimed at computer infrastructure while disinformation exploits our inherent cognitive biases and logical fallacies.
- Cybersecurity attacks are executed using malware, viruses, trojans, botnets, and social engineering
- Disinformation attacks use manipulated, mis contextualised, misappropriated information, deep fakes, and cheap fakes.
- Despite of various counter measures to protect and defend the attacks, the issues persist.
- The lack of coordination between teams leaves a huge gap that is exploited by malicious actors.
- For example, QAnon spread false messages claiming that the U.S. 2020 presidential election was fraudulent, and conspiracy theorists burned down 5G towers because they believed it caused the novel coronavirus pandemic.
- COVID-19 disinformation campaigns have prevented people from wearing masks, and not getting vaccinated.
- A well-coordinated disinformation campaign fills broadcast and social channels with so much false information and noise, and thus drowning the truth.
- Balancing the rights of speech with the dangers of disinformation is a challenge for policymakers and regulators.