

Homework 2

1. What is the importance of cyber security in the present era?

In the modern digital age, cyber security is essential because it ensures the protection of confidential data from breaches and cyber-attacks. Threats like identity theft and ransomware are rising, making security measures necessary to avoid financial and reputational damage.

2. How does AI help in improving cyber security?

Artificial Intelligence improves cyber security by spotting unusual activities in networks, recognizing malware signatures, and automating defense mechanisms. AI-powered tools process large datasets to anticipate and block threats proactively.

3. Why do enterprises rely on Linux-based systems to make a secure infrastructure?

Businesses use Linux-based systems for security because they are open-source, receive frequent updates, and have robust access controls. Linux is less prone to viruses and offers better stability for secure systems.