

Cybersecurity protects systems, networks, and data from digital attacks. Common threats include malware, phishing, ransomware, and denial-of-service attacks. Defense strategies involve firewalls, encryption, intrusion detection, and secure authentication. Human awareness plays a major role in preventing breaches. Organizations follow frameworks such as the NIST Cybersecurity Framework and ISO standards. Governments regulate data protection and critical infrastructure security. As attacks grow more sophisticated, artificial intelligence is increasingly used in threat detection and response.