CYBER SECURITY ASSIGNMENT QUESTION

DAY 79

1. Explain the concept of multimedia forensics and its significance in digital investigations. Discuss the challenges and techniques involved in analyzing multimedia data, such as images, audio, and video files, to uncover digital evidence and support forensic analysis.

2. Discuss the role of internet forensics in cybercrime investigations and digital intelligence gathering. Explain how internet forensics techniques are used to trace digital footprints, investigate online activities, and gather evidence of criminal behavior in cyberspace.

3. Explore the challenges and techniques of multimedia forensics in analyzing deepfake videos. Discuss how forensic analysts can detect and authenticate deepfake videos using digital image analysis, facial recognition algorithms, and deep learning techniques.

4. Discuss the role of internet forensics in combating cyber threats and digital crimes such as online fraud, identity theft, and cyberstalking. Explain how forensic analysts use internet forensics techniques to trace cybercriminals, gather digital evidence, and support law enforcement investigations.

5. Explore the applications of multimedia forensics in digital image authentication and tamper detection. Discuss how forensic analysts use image forensics techniques, such as image hashing, metadata analysis, and error level analysis, to

verify the authenticity and integrity of digital photographs in forensic investigations.