Assignment 1

❖ Cybersecurity Problem

- ➢ Network Security
- ➢ Endpoint Security
- ➢ Application Security
- ➢ Data Security
- ➢ Cloud Security
- ➢ Web Security
- ➢ Mobile Security
- ➢ IoT Security
- ➢ Transaction Security
- ➢ Messaging Security

❖ AI Application in Cybersecurity

• Network Security
- ➢ Network intrusion detection (scanning, spoofing, etc.)
- ➢ Application Attack detection like
  - o Sql Injection detection
  - o Broken Authentication detection
  - o Sensitive Data Exposure detection
  - o Cross-Site Scripting detection
  - o XML External Entities (XEE) detection
- ➢ Phishing attack malicious URL detection

• Endpoint Security
- ➢ Malware detection and classification
- ➢ Spyware, Ransomware detection

• User Security
- ➢ User behaviour Analytics
- ➢ Detection of suspicious sign-in activities, brute force attacks and infected devices