MAINCRAFTS TECHNOLOGY

Cybersecurity Task-1
Threat Report (Awareness & Research Project)

Objective
The goal of this task is to help you **understand the current landscape of cybersecurity threats**, analyze their impact, and learn how professionals present findings in the form of **threat intelligence reports**.

By completing this task, you will:
- Gain awareness of modern cyber risks.
- Develop **research and analytical skills**.
- Learn how to present technical knowledge in a **professional report format**.
- Create a **portfolio-ready project** that you can showcase on LinkedIn or GitHub.

📝 Task Description

You are working as a **Cybersecurity Analyst Intern** at a company (simulation). Your manager has asked you to prepare a **Threat Intelligence Report** highlighting the **latest cybersecurity threats (2024–2025)** and possible defense measures.

Your report should include:

1. **Introduction to Cybersecurity**
   - What is Cybersecurity?
   - Why is it important for individuals and businesses?
   - Current relevance (cyber crimes increasing, digital dependency, AI-driven threats).

2. **Identify 5 Major Modern Cyber Threats** (examples you may use, or you can research new ones):
   - **AI-Powered Phishing Attacks** (emails, deepfakes, social engineering).
   - **Ransomware-as-a-Service (RaaS)** (ransomware kits available to criminals).
   - **Cloud Security Misconfigurations** (data leaks from AWS, GCP, Azure).
   - **IoT Vulnerabilities** (smart devices being hacked).
   - **Zero-Day Exploits** (unpatched vulnerabilities).

3. **Impact Analysis**
   - For each threat, explain how it can harm:
     - Individuals (data theft, financial fraud).
     - Organizations (loss of data, downtime, reputation damage, compliance issues).

4. **Real-World Case Studies**
   - Research and include **at least 1 real-world incident** for each threat. Example:
     - WannaCry Ransomware (2017).
     - SolarWinds Supply Chain Attack (2020).
     - Capital One Cloud Misconfiguration Breach (2019).

5. **Preventive Measures**
   - Suggest at least 2–3 solutions for each threat. Examples:
     - Multi-Factor Authentication (MFA).
     - Zero Trust Security Model.
     - Regular Patch Management.
     - Firewalls, IDS/IPS systems.
     - Security Awareness Training.

6. **Conclusion & Future Scope**
   - Summarize why **proactive cybersecurity** is important.
   - Mention the need for **continuous learning** because threats keep evolving.

📚 Guidelines & Resources

1. **Format of the Report**
   - Title Page (Internship Program Name, Task-1, Your Name).
   - Table of Contents.
   - Introduction.
   - Threat Analysis (each threat explained with case study + solution).
   - Conclusion.
   - References (links to sources you used).
2. **Length**
   - Minimum: **1000–1200 words** (5–8 pages).
   - Or create a **10–12 slides PPT** if you prefer presentation style.
3. **Tools for Research**
   - [OWASP](#) – Web security reference.
   - [CISA Cyber Alerts](#) – Latest cyber threats.
   - [KrebsOnSecurity](#) – Cybercrime news.
   - [IBM Security Blog](#) – Threat research.

4. **Writing Support**
   - Use **MS Word, Google Docs, or PowerPoint** for report creation.
   - Maintain professional formatting (headings, bullet points, tables if possible).
   - Include **diagrams, charts, or infographics** (you can make simple ones using Canva or PowerPoint).

📤 Deliverables
- A **well-structured PDF or PPT file** covering all the above sections.
- File should be named properly:
  - Example: Cybersecurity_Threat_Report_Task1_[YourName].pdf

Free Resources & Support for Task-1 (Cybersecurity Threat Report)

Learning Resources (Free & Trusted)

Cybersecurity Basics (Understanding the Domain)
- [Cybrary – Free Cybersecurity Courses](#)
- [Cisco Networking Academy – Introduction to Cybersecurity (Free)](#)
- [Coursera – Cybersecurity for Everyone (Free Audit)](#)

Threats & Trends (Latest Updates)
- [CISA (Cybersecurity & Infrastructure Security Agency)](#) – Official U.S. alerts on ongoing threats.
- [IBM Security Blog](#) – Modern cyberattack research.
- [KrebsOnSecurity](#) – Real-world cybercrime news.
- [OWASP Top 10 (Web Threats)](#) – The 10 most critical web app security risks.

Case Studies & Incidents
- [Verizon Data Breach Investigations Report (Free PDF)](#)
- [ENISA Threat Landscape Report](#) – EU Cybersecurity Agency reports.