Problem: Cyberterrorism and extremism are two of the most popular activities on the Dark Web. We need to create a solution to do behavior analysis based on specific keywords, videos, and photo recognition to identify such activities from the deep or dark web using AI and ML.

Possible Solution: There are various methods we might employ to obtain data. One of them is making forums and discussion boards specifically for illegal content that encourages or lures extremism and cyberterrorism and gathering the information supplied by them.

The obtained data can be analyzed using AI/ML as datasets, and then utilized to detect cyberterrorism and extremism using a variety of methodologies, including keyword detection, image/video processing and then investigate taking further action. This flow chart will explain them.

Workflow - Schematic:

Reconnaissance → **Data Preprocessing** → **Keywords Extraction** → **Model Training** → **Decision Making**

Once the data is collected, it needs to be preprocessed to remove any unnecessary information and convert it into a suitable format for analysis

A machine learning model must be trained on the preprocessed data using the selected keywords to detect cyber terrorism and extremism.

Gathering Data from various sources of the Dark/Deep web such as:

- Web Forums
- Chat Rooms
- Commercial Markets
- Blogs

Specific keywords related to cyber terrorism or illegal content must be identified, such as "terrorism," "extremism," "hate speech," "radicalization," and "weapon."

Based on the scores assigned by the AI/ML models

IF flag triggered — Not → Ignore the result

Yes → Investigate