

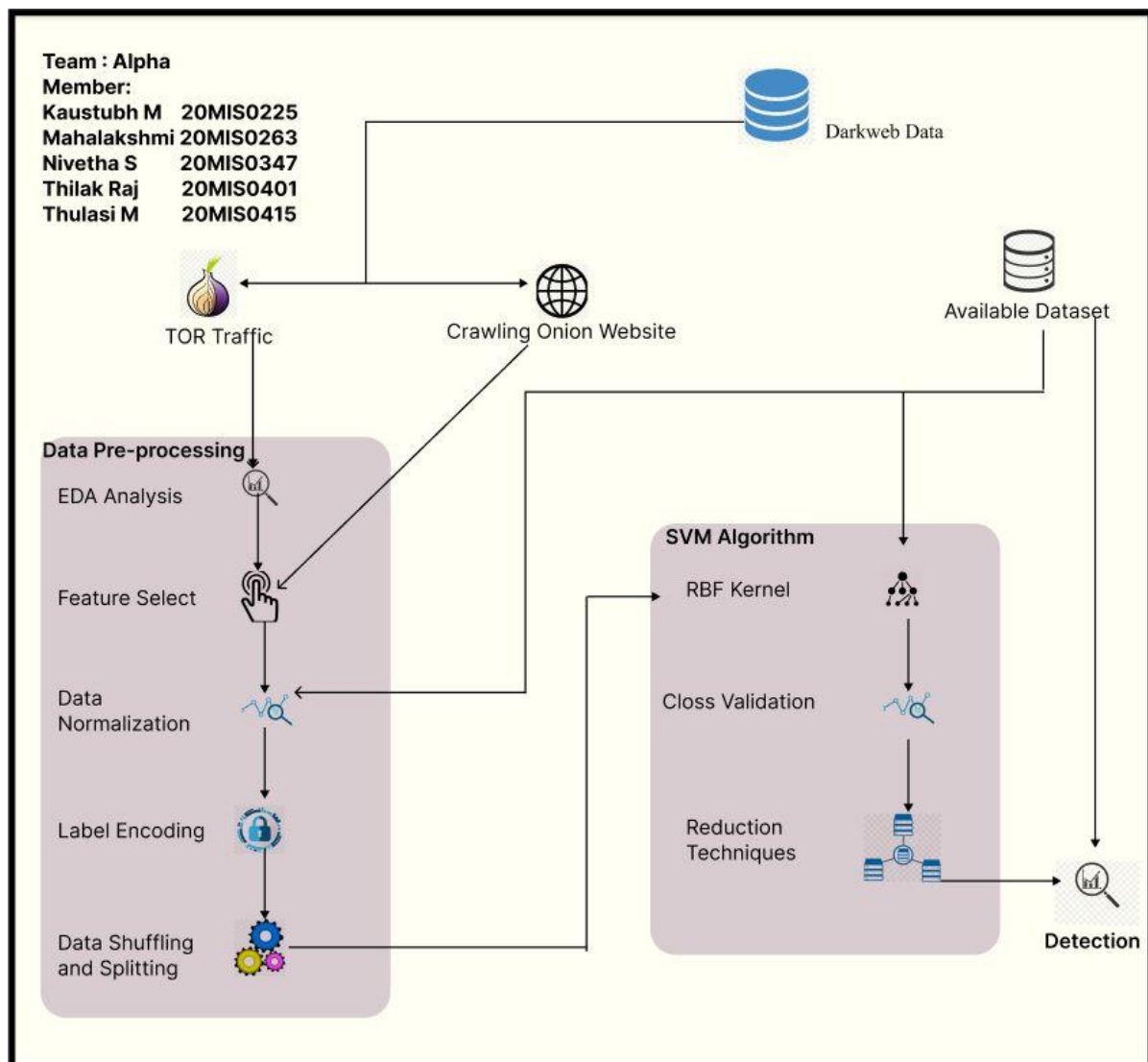
CYBER FORENSIC T20 SERIES H@CK@THON-23

PROTOTYPE SUBMISSION

PROBLEM STATEMENT:

Develop a crawler that collects the information from various dark websites and investigation for identifying the hidden web activities like trading drugs, weapons, child abuse, malware, hacking softwares, identity threats and many others.

DESIGN OF THE PROJECT:



PRE-REQUISITES:

To run this Python script, you will need to have the following prerequisites installed:

1. Python: You will need to have Python installed on your machine in order to run the script. You can download and install the latest version of Python from the official website (<https://www.python.org/downloads/>).
2. TOR: You will need to have the TOR browser and the TOR control port installed and configured on your machine in order for the script to work properly. You can find instructions for installing and configuring TOR on Windows on the TOR website (<https://www.torproject.org/>).
3. Libraries: The script uses the following Python libraries, which you will need to install in order to run the script:
 - i.requests: A library for sending HTTP requests and receiving responses.
 - ii. stem: A library for interacting with the TOR control port.
 - iii. BeautifulSoup: A library for parsing HTML and extracting information from web pages.

OUTPUT:

- Typically it generates a list of URLs or web addresses of websites, forums, or marketplaces on the dark web and ranks it according to the relevance of content.
- The frequency of the spider-crawling websites depends on the search engine's discretion.
- This list can include information such as the website's name, description, and the type of content it contains.
- In some cases, the crawler may also capture metadata about the web pages, such as their title, keywords, and other information.

OUTCOME OF THE PROJECT:

- In the field of monitoring the dark web, web crawlers also play an essential role.
- The term "dark web" refers to a portion of the internet that is not searched by conventional search engines and that is only accessible through the use of specialized software such as the TOR network.
- Traditional search engines are unable to access the dark web.
- The "dark web" is frequently used for illegal endeavors, including the purchase and sale of illicit substances, firearms, and stolen personal information.
- Web crawlers can be used to monitor the dark web and collect intelligence on illegal activity.
- This can help law enforcement find the people who did something wrong so they can bring them to justice.

