

### FRANCIS SHARON J

**Final Project** 



## **XENON**

A web scraper / summarization tool built with python



## **AGENDA**

- PROBLEM STATEMENT
- PROJECT OVERVIEW
- END USERS
- SOLUTION AND ITS VALUE PROPOSITION
- THE "WOW" FACTOR
- MODELING



## PROBLEM STATEMENT

To analyze the web scraped DOM content and predict / categorize their intensity



## **PROJECT OVERVIEW**

XENON is a web scraper and a sentiment detector built into a single unified system

- 1.XENON scrapes the DOM files (page content) from the specified URI
- 2.It summarizes and segments the content using an NLP engine
- 3. The segments are the sent to a sentiment classifier which categorizes the sentiments assign them a score based on their level of intensity



#### WHO ARE THE END USERS?



The target audience for XENON is **cyber security firms that specialize on reconnaissance** and **growing MSME firms** 

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### YOUR SOLUTION AND ITS VALUE PROPOSITION

The XENON highlights are as follows,

- A really effecient scraping tool that takes an average of 2 seconds to completely scrape a 500 words long website
- An accurate summarizer that summarizes the contents and segments them based on the context
- An intuitive sentiment analysis tool that uses the context provided by the summarizer to effeciently predict the emotional intensity of the segmented content

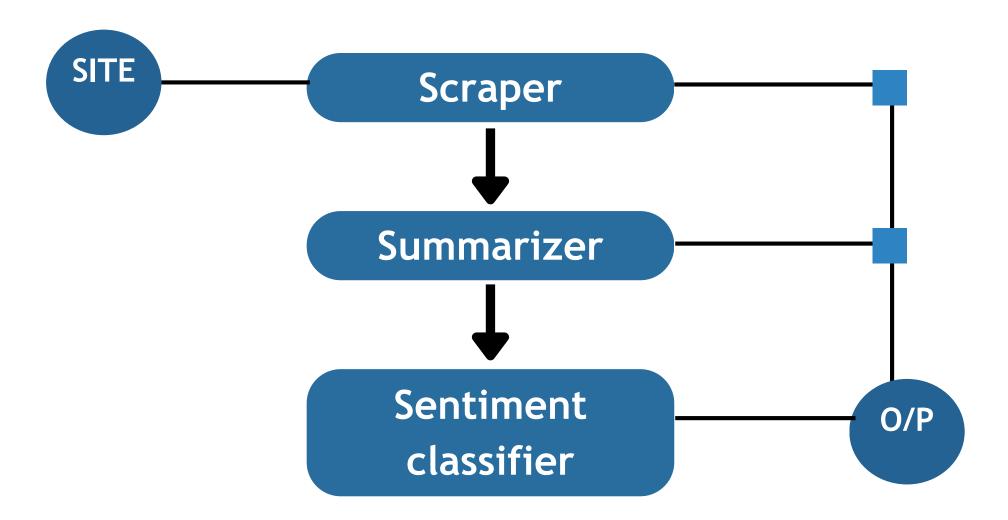
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# THE WOW IN YOUR SOLUTION

Apart from scraping/summarizing sites available on the clearnet XENON can also scrape sites from the darknet. Thus by setting a threshold value, XENON can be used to effectively monitor a particular domain and define a notification if the content there gets out of hand



# **MODELING**



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## **RESULTS**

1

2



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