**INTRODUCTION**

Hybrid Document Summarization, is the plan to get an important data from a huge amount of information. The amount of data accessible on internet is increasing every day so it turns space and time expanding matter to deal with such huge amount of information. So, managing that large amount of data is makes a major problem in different and real data taking care of uses. The Hybrid Document Summarization undertaking makes the users simpler for various Natural Language applications, like, Data Recovery, Question Answering or content decreasing etc. Hybrid Document Summarization assumes an inescapable part by creating significant and particular data from a lot of information.

Filtering from heaps of reports can be troublesome and tedious. Without a summary or rundown, it can take minutes just to make sense of what the people will discuss in a paper or report. So, the Hybrid Document Summarization that concentrates a sentence from a content record, figures out which are the most imperative, and returns them in a readable and organized way. Hybrid Document Summarization is a piece of the field natural language processing, which is the manner by which the PCs can break down, and get importance from human dialect.

Hybrid Document Summarization that uses the classifier structure and its rundown modules to look over huge amount of reports and returns the sentences that are helpful for producing a summary. Programmed outline of content works by taking the overlapping sentences and synonymous or sense from wordnet most overlapping sentences are considered as high score words. The higher recurrence words are considering most worth. And the top most worth words and are taking from the content and sorted according to its recurrence and generate a summary.

**EXISTING SYSTEM**

Currently, the number of documents retrieved by Web Search Engines is already beyond the capacity of human analysis due to the fact that hundreds of pages of search results are generated for most input queries. Thus, document retrieval is not sufficient and we need a second level of abstraction to reduce this huge amount of data - the ability of summarization. Hybrid Document Summarization condenses text contents into most important concepts and ideas under a particular context. This technology may be helpful to identify topics, categorize contents, and summarize documents. However, most previous work on Hybrid Document Summarization has emphasized on information abstraction and extraction. Some well-known approaches, like TF/IDF (Term Frequency/Inverse Document Frequency), which summarizes a text based on term frequency weight that is assigned to each term, neural network system for text summarization, statistical models, and so on, usually rank sentences and select sentences with higher ranking Score as the summary.

There are two properties of the summary that must be measured while evaluating summaries and summarization systems – the Compression Ratio, which is a measure of the length of the summary when compared to the original, and the Retention Ratio or Omission Ratio, which is a measure of how much of the document’s central information is retained in the summary.

Semantic similarity is a concept frequently employed in determining the ranking of a term or sentence. A set of documents or terms within term lists are assigned a metric based on the likeness of their meaning / semantic content. Various semantic similarity techniques are available which can be used for measuring the semantic similarity between text documents. Semantic similarity methods are classified into four main categories, Edge Counting Methods that measure the similarity between two terms (concepts) as a function of the length of the path linking the terms and on the position of the terms in the taxonomy, Information Content Methods to measure the difference in information content of two terms as a function of their probability of occurrence in a corpus, Feature based Methods to measure similarity between two terms as a function of their properties (e.g., their definitions) or based on their relationships to other similar terms in the taxonomy and Hybrid methods that combine the above three mentioned methods for calculating the semantic similarity.

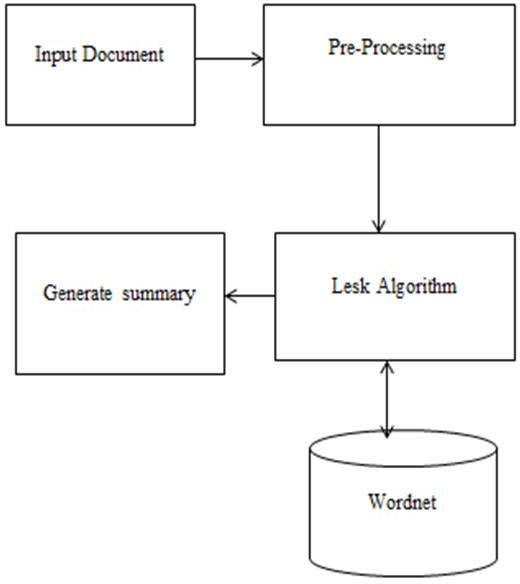
**PROBLEM STATEMENT**

* Reading the whole document, dismembering it and isolating the critical thoughts from the crude content require some serious energy and exertion.
* Existing system increase the human effort while creating a synopsis. A few vital products compress records as well as website pages.
* The persons cannot quickly determine which points are imported for reading.

**PROPOSED SYSTEM**

In the Hybrid Document Summarization, we are using a solitary or single input content is going to outlined by the given rate of summarization utilizing unsupervised learning. In any case, the streamlined lesk’s computation is associated with each of the sentences to find the guarantees of each sentence. After that, sentences with induced weights are composed in sliding solicitation concerning their weights. Presently as per a particular rate of summarization at a specific occurrence, certain quantities of sentences are chosen as an outline.

The proposed computations, abridges solitary or single report content utilizing unsupervised learning approach. Here, the heaviness of every sentence in a substance is resolved using streamlined Lesk’s computation and wordnet. After that, summarization procedure is performed as indicated by the given rate of synopsis. In which, we are taking solitary info content and display summarization as yield. First info content is passed, to the lesk computation and wordnet, where the weights of each sentences of the content are inferred utilizing and semantic investigation of the concentrates are performed. Next, weight doled out sentences is passed to derive the final summary according to the percentage of synopsis, where the last abridged outcome is assessed as and showed.



**Fig -1**: Overall Representation for Automatic Text Summarization Using Natural Language Processing.

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