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BUILDING SEARCH ENGINE USING MACHINE LEARNING TECHNIQUE

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ABSTRACT:

Building Search Engine using Machine Learning Technique The web is the huge and most extravagant wellspring of data. To recover the information from the World Wide Web, Search Engines are commonly utilized. Search engines provide a simple interface for searching for user query and displaying results in the form of the web address of the relevant web page but using traditional search engines has become very challenging to obtain suitable information. This paper proposed a search engine using Machine Learning technique that will give more relevant web pages at top for user queries. The web is the huge and most extravagant wellspring of data. To recover the information from the World Wide Web, Search Engines are commonly utilized. Search engines provide a simple interface for searching for user query and displaying results in a form of the web address of the relevant web page, but using traditional search engines has become very challenging to obtain suitable information. This paper proposed a search engine using Machine Learning technique that will give more relevant web pages at top for user queries.

Keywords: DL IDS, U2R, Dos, IOT, SDPN, SMO.

1. INTRODUCTION:

World Wide Web is actually a web of individual systems and servers which are connected with different technology and methods. Every site comprises the heaps of site pages that are being made and sent on the server. So if a user needs something, then he or she needs to type a keyword. Keyword is a set of words extracted from user search input. Search input given by a



user may be syntactically incorrect. Here comes the actual need for search engines. Search engines provide you a simple interface to search user queries and display the results. • Web crawlers help in collecting data about a website and the links related to them. We are only using web crawlers for collecting data and information from WWW and storing it in our database. • Indexer which arranges each term on each web page and stores the subsequent list of terms in a tremendous repository. • Query Engine is mainly used to reply to the user's keyword and show the effective outcome for their keyword. In the query engine, the Page ranking algorithm ranks the URL by using different algorithms in the query engine. • This paper utilizes Machine Learning Techniques to discover the utmost suitable web address for the given keyword. The output of the Page Rank algorithm is given as input to the machine learning algorithm.

MOTIVATION As in today's internet world, people are mostly based on search engines to search what they are looking for in the internet. • The web is the huge and most extravagant well spring of data. To retrieve the information from the World Wide Web, Search Engines are commonly utilized.

PROBLEM DEFINITION: The project we have built is used to provide the faster retrieval

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of information using search engines that are implemented by using machine learning algorithms. It provides a simple interface for searching for user query and displaying results in the form of the web address of the relevant web page but using traditional search engines has become very challenging to obtain suitable information

OBJECTIVE OF PROJECT: To build a search engine which gives web address of the most relevant web page at the top of the search result, according to user queries. The main focus of our system is to build a search engine using machine learning technique for increasing accuracy compare to available search engine **EXISTING SYSTEM**

Information retrieval is to retrieve the information resources that we are interested in or extract whatever information we need.
Information Retrieval (IR) may deal with the organization, storage, retrieval and evaluation of information from documents, particularly textual information.

• But we cannot give the ranks to those documents.

DISADVANTAGES OF EXISTING SYSTEM:



• Information retrieval will be very difficult in large numbers of texts in a document.

• Difficult to identify the important concepts or topic in a collection of Search engines provide you a simple interface to search user query and display the results in the form of the web address of the relevant web page. The figure focuses on three main components of search engine. 1) Web crawler Web crawlers help in collecting data about a website and the links related to them. We are only using web crawler for collecting data and information from WWW and store it to our database. 2) Indexer Indexer which arranges each term on each web page and stores the subsequent list of terms in a tremendous repository. 3) Query Engine It is mainly used to reply the user's keyword and show the effective outcome for their keyword. In query engine, Page ranking algorithm ranks the URL by using different algorithms in the query engine.

DATA FLOW DIAGRAM OF PROJECT

The DFD is also called as bubble chart. It is a simple graphical formalism that can be used to represent a system in terms of input data to the system, various processing carried out on this data, and the output data is generated by this system.

• The data flow diagram (DFD) is one of the most important modeling tools. It is used to

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model the system components. These components are the system process, an external entity that interacts with the system and the information flows in the system

PROPOSED SYSTEM

• The proposed search engine is very useful for finding out more relevant URLs for given keywords.

• Anyone can easily identify the important documents in a collection of documents and retrieve the related data.

• It proposes a novel model, named LDA (Linear Discriminant Analysis), easy for clustering the related documents based on that ranking

ADVANTAGES OF PROPOSED SYSTEM: •

We will build a search engine which gives the web address of the most relevant web page at the top of the search result, according to user queries. • The main focus of our system is to build a search engine to discover the utmost suitable web address for the given keyword by using machine learning techniques for increasing accuracy compared to available search engines.

OPERATION:



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User home:



Manager-details:



User login:



file upload:





CONCLUSION

Search engines are very useful for finding out more relevant URLs for given keywords. Due to this, user time is reduced for searching the relevant web page. For this, Accuracy is a very important factor. From the above observation, it can be concluded that XGBoost is better in terms of accuracy than SVM and ANN. Thus, Search engines built using XGBoost and PageRank algorithms will give better accuracy.

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