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TEXT CATEGORIZATION USING FPI METHODOLOGY**M. PUSHPA****RESEARCH SCHOLAR****DEPARTMENT OF COMPUTER SCIENCE****BHARATHIAR UNIVERSITY****COIMBATORE****DR. K. NIRMALA****ASSOCIATE PROFESSOR****DEPARTMENT OF COMPUTER SCIENCE****QUIAD-E-MILLATH GOVERNMENT ARTS COLLEGE FOR WOMEN****CHENNAI****ABSTRACT**

Text clustering methods can be used to group large set of data. In this paper we present a naïve based approach for clustering frequent item sets. Such frequent term set can be discovered using First principles of instruction technique. We categorize the text using FIP methodology and the algorithm involves the text tokenization, text categorization and text analysis.

KEYWORDS

FPI, Text mining, Text characterization, Clustering, Association rule mining and Instructional Phase.

INTRODUCTION

A large portion of all available information today exists in the form of unstructured textual data. Books, magazines, articles, research papers, products, manuals, memorandums, emails and web content: all contain textual information in natural language form. The amount of text is simply too large to read and analyze efficiently.

Furthermore, data is dynamic and requires ongoing review and analysis to stay in the current global market. Manual analyzing of huge amount of textual data requires a tremendous amount of processing time and effort in reading the text and organizing them in required format.

This has led to the development of automated tools and techniques for analyzing text to discover knowledge for various applications. These techniques are gathered under the name of text mining.

This paper will discuss the approach to categorise the text based on bag of key words associated with First instruction principle.

TEXT MINING

Text mining is used to manage textual information. It can also be defined as knowledge discovery in textual database, allows us to create a technology that combines a human linguistic capability with the speed and accuracy of a computer.

Text mining aims to analyse more detailed information in the content of each document and to extract interesting information that can be provided only by multiple documents viewed as whole, such as trends and significant features that may be a trigger to useful actions and decision making. Text mining is about analysing text for particular purposes and involves looking for regularities, patterns or trends in natural language text. Text mining, also known as intelligent text analysis or text data mining or knowledge-discovery in text, refers generally to the process of extracting interesting and non-trivial information and knowledge from unstructured text. The objective of text mining is to exploit information contained in textual documents in various ways which includes discovery of patterns and trends in data, associations among entities predictive rules, etc. Text mining is a challenging task as it involves dealing with text data that are inherently unstructured and fuzzy.

Documents rarely have strong internal structure. In one approach to text mining the metadata about the documents is extracted from the documents and stored in a database where it may be mined using data base and data mining techniques. The other approach that extracts textual data generate by text mining tools, serves as a method to enrich the content of the documents. In this case text mining can be described as a way to extend mining methodologies by an automated process that creates structured data describing the documents. Providing help for building ontologies of documents, performing intelligent text search, text segmentation, topic tracking are some of the other related areas in the context of text mining. Text mining can also extract concept from a large collection of documents without having to scan through a great number of files i.e. to uncover and discover valuable relationships between ideas and words contained in vast amounts of text information.

CLUSTERING

The goal of clustering is to find data points that naturally group together, splitting the full data set into a set of clusters. Clustering is particularly useful in cases where the most common categories within the data set are not known in advance. If a set of cluster is optimal, within a category, each data point will in a general be more similar to the other data points in that cluster than data points in other clusters.

Clustering algorithms can either start with no prior hypotheses about clusters in the data or start from a specific hypothesis, possibly generated in prior research with a different data set.

FIRST PRINCIPLES OF INSTRUCTION

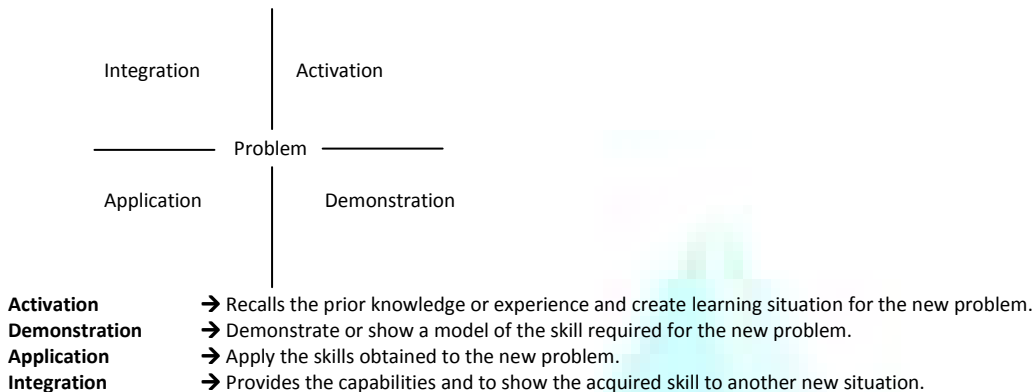
A first principle is an attempt to identify Reigeluth's basic methods. Principles method is a relationship that is always true under appropriate conditions regardless of program or practice. Properties of first principles of instruction learning from a given program will be facilitated in direct proportion to its implementation.

- a) Analyze instructional theories, models, programs, and products to extract general first principles of instruction.
- b) Identify the cognitive processes associated with each principle.
- c) Identify empirical support for each principle.
- d) Describe the implementation of these principles in variety of different instructional theories and models; &
- e) Identify prescriptions for instructional design associated with these principles.

INSTRUCTIONAL PHASE

Many current instructional models suggest that the most effective learning environments are those that are problem-based and involve the student in four distinct phases of learning: 1) activation of prior experience, 2) demonstration of skills 3) application of skills and 4) integration or these skills into real world activities.

FIG. 1: FIRST INSTRUCTIONAL PRINCIPLE



TEXT CATEGORIZATION

Text categorization can be defined as assigning category labels to new documents based on the knowledge gained in a certain categorization system. The categorization system is usually based on supervised learning or unsupervised learning or methodology using based on supervised or unsupervised learning or a methodology using hierarchy.

ROLE OF TEXT CATEGORIZATION IN TEXT MINING

Text categorization becomes one of the important techniques for handling and organizing text data. Text categorization is the task of classifying text documents into categories or classes based on their content. This task of automatically classifying text document is of great importance given the massive volume of online text available today. The concept-centric nature of documents is also one of the reasons why the issues of document categorization are particularly challenging. Text categorization is now being applied in many context, ranging from document indexing based on a controlled vocabulary, to document filtering, automated metadata generation, word sense, disambiguation, population of hierarchical catalogue of web resources, and in general any application requiring document organization or selective and adaptive document dispatching.

Text categorization based on machine learning methods need a training set and a test set. The training set is a set of documents, which is tagged manually by the experts. The performance of the system depends on good training set. Moreover the machine language approach to the text categorization is based on keyword matching. The motivation for the work described in this thesis is the categorization of documents based on semi automated concept in addition to the keywords. The use of concepts for text categorization increases its overall performance specifically when considering categorization of domain specific corpus.

PROPOSED SYSTEM

The analysis of huge text collection usually aims at finding relevant text or text groups. It would be a tedious task of any information seeking user to scan all retrieved item. In order facilitate this task, most text mining system characterize their resulting text with various kinds of annotations. Keywords are helpful in the categorization process.

Keywords are valuable means for characterizing texts. In order to extract keywords an efficient and robust, language and domain independent approach has been applied. The keywords can be generated by the human judgment based on the repeated analysis on the text. The algorithm is used to examine the first instructional principle with the help of the keywords.

This papers aims to categorize the text using principle of FPI with a given set of pre-categorized keywords generated by the human judgment. It also finds how much percentage of the four distinct phases of learning that is activation, demonstration, application and integration is presented in the document.

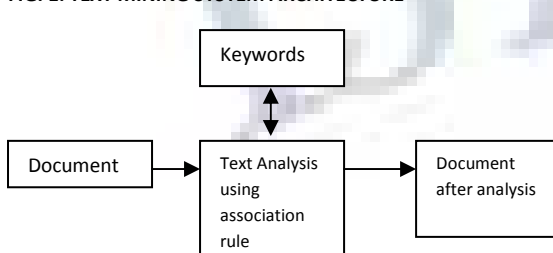
METHODOLOGY USED

In traditional document clustering methods, a document is considered a bag of words. There are many algorithms for automatic clustering like the k-mean algorithm and hierarchical clustering which can be applied to a set of vector from the cluster. Traditionally the document is represented by the frequency of the word that makes up the document. The prosed methodology uses FIP methodology to categorize text.

Text categorization is a task of assigning natural language texts to predefined categories based on their content. It is applicable to assign subject categories document to support information retrieval or to aid human indexers in assigning such categories.

Our system uses David Merrill's first Instructional Principle properties for categorizing text. The system is implemented with a set of process as parsing and tokenizing.

FIG. 1: TEXT MINING SYSTEM ARCHITECTURE



Text Extraction is the task of selecting documents relevant to the set of keywords. The system uses the clustering approach to identify the quality of the document. The system process with the following observation:

- The clustering keywords
- Algorithm called FIP to find accurate cluster
- A cluster obtained is estimated for the quality of the document.

THE STEPS INVOLVED IN THIS SYSTEM ARE

1. Select clustering keywords
2. Clustering document using the FIP algorithm
3. Obtain the relevancy information using clustering keyword
4. If the match does not encounter with any of the cluster keyword allow the user to make the decision based on the Input

AN IMPLEMENTATION OF EXTRACTION SYSTEM BASED ON THIS ALGORITHM NEED TO ADDRESS THE FOLLOWING POINTS

- Which set of keywords need to be used as threshold parameter for clustering
- How should we resolve undefined cases?

APPLICATION OF THE SYSTEM

Some of the applications of the current system are

- It measures interestingness and rules for learning management system.
- A very important aspect which is dealt with in this system is learner characteristics like knowledge, motivation, meta cognition and attitudes.

CONCLUSION

This paper has presented a text mining approach for automatically extracting association rule from a collection of documents based on the keyword features. The system can be applied to all or a specific portion of a document.

This technique requires not only that adequate thresholds be chosen for the two standard parameters of support and confidence, but also that appropriate measures of interestingness be considered to retain meaningful rules and filter uninteresting ones out.

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