

Development of Mobile Application for knowledge building through machine learning for student

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Abstract— This study aimed to develop a mobile application (app), for the student self improvement and guidance to student. Today diversified users query over web search engine for information retrieval. Traditional web search engine related with the online documents or link. They are provides the many links to users to give the solution of his query. It doesn't provide the helpful information like images etc. Therefore the process is time consuming. Because of this time and money is waste. To overcome these issues proposed mobile application is used with offline and gives the instant solution to user using machine learning. This application can provide the services for result of every query like any user can type the text 'hi' then it gives the instant replay 'hi'. This mobile application is available 24/7.

Keywords— Crawler, Machine Learning, Artificial Intelligence, Query, Mobile, Application, Result.

1. INTRODUCTION

Query and Answer is only a mile stone in life's journey it does not mark the end of the road in a very real sense. This mobile application is designed for help to student find the answer of one of the query. Mobile application takes a problem as an input and returns a solution to the problem, usually after evaluating a number of possible solutions. This mobile application deserve as an user to provide the best possible resources to develop into the kind of human beings that world needs today and tomorrow. This is available all time 24/7. In recent years, the amount of available diverse textual information has been growing rapidly, and specialized computer systems can cover ways of managing, sorting, filtering and processing this data more efficiently. Offline feature of this application is very useful. This mobile application also provides the many helpful tests (aptitude test) for the student. Also provide the good knowledge for student.

2. LITERATURE REVIEW

[1] Navdeep Kaur "Natural Language Processing Interface for Synonym", IJCSMC, vol. 3, Issue. 7, July 2014,

pg.638-642 Natural Language Processing (NLP) is an area of research and application that explores how computers can be used to understand and manipulate natural language text or speech to do useful things. NLP researchers aim to gather knowledge on how human beings understand and use language so that appropriate tools and techniques can be developed to make computer systems understand and manipulate natural languages to perform the desired tasks. In this paper NLP interface, various techniques for synonym are described. [2], Dr. Saravanakumar "A New Methodology for Search Engine Optimization Without Getting Sandboxed", vol. 1, Issue 7, September 2012.

This research work implies a new methodology of Search Engine Optimization (SEO) without getting sandboxed by search engines like Google, Bing and other. In the past, the algorithm was based on the quantity of back links that a site has. This process involves in implementing safe link building techniques with link velocity as its key without compromising the on page optimization. [3] Sharmila Devi, Shubhash Chander "Mobile Application and its Implications in Education", vol.2, Issue.3, March 2012.

Regardless of the hardware employed, as demand requires that more applications be re-authored for mobile formats, institutions may find it necessary to overhaul data-sharing and content-delivery techniques to support the mobile platform. Education includes online, distance and part time education. There are unlimited applications of mobile phones in the real world. [4] Sandeep Kumar "Convergence of Artificial Intelligence, Emotional Intelligence, Neural Network and Evolutionary Computing", vol.2, Issue. 3, March 2012.

This paper presents a new perspective of Artificial Intelligence (AI). Although, number of attempts has been made to make an artifact intelligent, including evolution theory, neural network etc and a number of problems have been solved using these concepts but each of this theory covers only some aspect of human intelligence. Still there is a large gap between artificial intelligence agent and human being.

[5]. Maya Ingle, Parag Kulkarni “ Empirical studies on Machine Learning Based Text Classification Algorithms” vol.2, No.6, November 2011.

Automatic classification of text documents has become an important research issue now days. Proper classification of text documents requires information retrieval, machine learning and Natural language processing (NLP) techniques. Our aim is to focus on important approaches to automatic text classification based on machine learning techniques viz. supervised, unsupervised and semi supervised.

A. IDENTIFICATION OF PROBLEM

In the present scenario when user open this mobile application enter the registration form and login in the mobile application then user can enter his query then this query is transfer to machine learning algorithm and process the proper solution after that this solution is analyze and display the result on screen.

Using this application user can save the money also save his valuable time. All time available feature of this mobile application is very useful for the user.

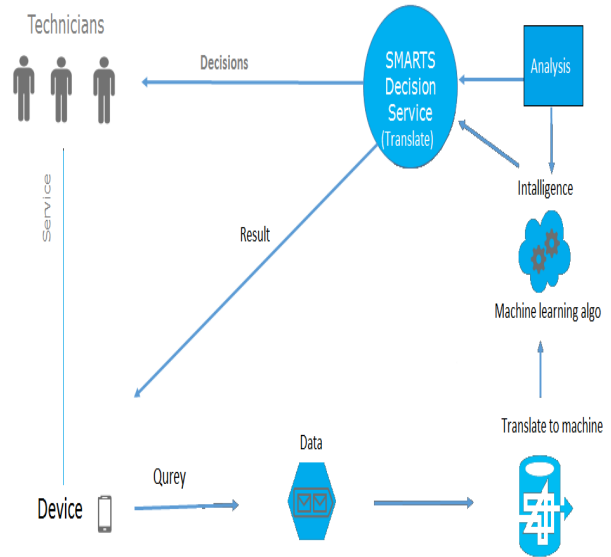
B. OBJECTIVE

- C. 1. It provides the helpful information to student about his query.
- D. 2. Application gives the exact and instant solution/answer.
- E. 3. Mobile application provides easy solution of student query.
- F. 4. It gives the student helpful test for increasing knowledge.

3. SYSTEM ARCHITECTURE

In the system illustrated in figure 1, When student enter in the application it open the registration form then student login in the application. If student has any query then enter his query this query is translate to machine and this transmitted query going to machine learning algorithm and process these query ,matching the query answer and analyzing the query and transfer to the user display screen as an answer.

In the figure 1, in the mobile application student can enter the query translate it to machine learning then it goes to analyze phase or process the query translate these query to student mobile screen. So the application can providing the best result of every query immediately like any user can type the text 'hello' then this 'hi' is transmit machine learning algorithm process and display result as 'hi', 'What can I do for you?', 'How can I help you?'.



4. SYSTEM OVERVIEW

Proposed mobile application is very important for the student. This mobile application is developing for a query/solution. They are providing the services for result of every query. This application provides the instant solution of every query. This application is helpful to student for increase the knowledge and performance of student. With the help of this mobile application the student have do not depend on the human. This is available all time 24/7. Proposed application is offline so student can refer this application easily.

5. ALGORITHM

- Step1: Start
- Step2: Login in the application.
- Step3: Student can enter the query.
- Step4: Translate the student query to machine language.
- Step5: Apply the machine learning algorithm.
- Step6: System can do the analysis of query.
- Step7: Processing of the query.
- Step8: Analyze the query.
- Step9: Display result on the screen.
- Step10: Stop.

6. METHODOLOGY

1. Query input
2. Association or identification of synonyms
3. Matching the keywords and synonyms
4. Displaying relevant result.

7. MACHINE LEARNING

Machine learning is a type of artificial intelligence (AI) that provides computers with the ability to learn without being explicitly programmed. Machine learning focuses on the development of computer programs that can teach themselves to grow and change when exposed to new data. The process of machine learning is similar to that of data mining. Both system searches through data to look for patterns. However instead of extracting data for human comprehension as is the case in data mining applications machine learning uses that data to detect patterns in data and adjust program actions accordingly.

8. CONCLUSION

In the study, development of mobile application went through many process like machine transformation, analysis, machine learning. It was attempted to increase the knowledge of student and helpful for the student by giving the test modules for the increase the knowledge level of the student. We propose a new mobile application in android for the student query to give proper or exact solution. Our mobile application is used to reduce time complexity and human dependency. Using this application student can access the application anywhere at any time.

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