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# **Review on the Simple Text Messages classification**

# Payal Kurhade<sup>1</sup>, Sharvari Medhane<sup>2</sup>, Shivanjali Kankate<sup>3</sup>, Vinita Rokade<sup>4</sup>, Mr. D.S. Thosar<sup>5</sup>

1,2,3,4Last Year Computer Engineering Student S.V.I.T. Chincholi, Nashik <sup>5</sup>Assistant Professor, Department of Computer Engineering S.V.I.T. Chincholi, Nashik

**Abstract** - Short Message Service (SMS) is an integral service of the mobile phone for users to communicate with people which is faster and convenient way to communicate. However, it has some limitations like incapability of searching and categorization of SMS, scheduling, marking SMS and there is scope to improve it. To overcome various limitations, we have proposed a mobile application with title MojoText - Text Messenger which solves real time problem of text messaging. Our system provide core functionalities of text messaging and beside to that various facilities like categorization of messages based on personal, social, transactional and user defined categories with color codes, searching with customized date, scheduled text delivery, hiding of messages inside the app, reminders for due dates of billers, validity of texts, starred messages, pinned chats, signature, backup and recycle bin.

Key Words: Android, Text-to-Speech module, Natural Language Processing (NLP), Text pattern matching.

# 1. INTRODUCTION

Now a Day's mobile users are increased day by day. There are number of messaging apps with the multiple functionalities and features are available in android mobile phones but for the simple text messages there is nothing some extra added features[1]. In this system we are going to add some extra feature to the simple text messages. Now a days we linked our mobile number to our bank accounts, register shop or in any mall for getting the details of the shopping or any offers in the mall, for getting some important OTP's, educational purpose, etc.

The use of SMS becomes widespread and it is preferred for personal messaging and authentication method [2, 3]. These all messages are stored in our text box combine to avoid this situation or getting easy access of the important messages we are going to develop the system. Short Message Service (SMS) of the mobile phone for users to communicate with people which is convenient and easy way for the communication[2]. However, it has some limitations like incapability of searching, categorization and easy access of SMS, scheduling, marking, storing SMS and there is scope to improve it.

To overcome these various limitations, we have to introduce the proposed system a mobile application text Messenger which solves real time problem of text messaging[4].

Our system provide more functionalities and feature of text messaging and beside to that various facilities like categorization or classification of messages based on personal, social, transactional and user defined categories with the some different color codes to the each category of the SMS, searching with customized date, scheduled text delivery, hiding of personal messages inside the app, reminders for due dates like phone bills, etc. reminders for some occasions, validity of texts, starred(favorite) messages[6].

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# 1.1 PURPOSE

For different personal use or social use, SMS nowadays even being extinct, today the SMS is treated as the best way of authorization and authentication of the user's credential and contact information by using an OTP or any other activation methods. After the implementation of the android application, it will reduce the efforts of categorizing the SMS. The application will definitely be helpful in storing the messages and even in recovering if deleted by mistakenly. One of the major benefit the user will get in optimizing the memory i.e. after the validity of some SMS is expired it gets automatically deleted so space and efforts are saved.

# 2. PROBLEM STATEMENT

Android Base Application to speech out the message and to provide the security to the confidential messages like Bank account number. In this system the classification of the messages can be done like gmail acccout in categories of personal, transactional, company.

#### 3. RELATED WORK

This contains the existing and established theory and research in this report range. This will give a context for work which is to be done. This will explain the depth of the system. Review of literature gives a clearness and better understanding of the exploration/venture. A literature survey represents a study of previously existing material on the topic of the system. This literature survey will logically explain this system.

The paper named as a text classification on the down streaming potential of bio medicine publication in Indonesia. Author Name is Silalahi m. Nadhiroh I.M.

The paper is Published year 2017. The Limitation of this paper that it does not provide Recycle Bin and starred message.

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The starred messages may help to find or to choose the favorite messages. These are the drawbacks of the paper we can overcome that is the system.

The second was also published on the SMS classification Paper Name was Short text classification based on wikipedia and word2vec. The paper Published year is 2016.

The Limitation of the paper Based on classification solution is to provide spam SMS. Words in the message are transformed into vectors and the distances between them are calculated and an analogy is established between the words by using Word2Vec. The Word2Vcc technology is very difficult to understand we cannot learn it easily and this system is only useful for the spam SMS.

# 4. SYSTEM ARCHITECTURE

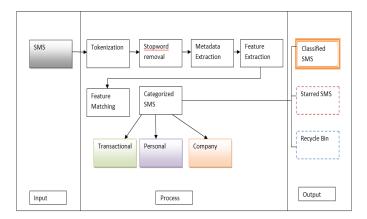


Fig -1: System Architecture

The system is based on the three most essential parts first on is the input of the system second one is the main process of the system and last one is designed output of the system so the system architecture is given as above diagram the process of the system is begins from here and to avoid trouble from the searching the text messages we are developing the system.

The system gets input through the incoming message send by the sender these messages in initial stage stored like a are simple text messages and then the android application works on the text messages by using the algorithms. The next process is shown in the architecture. In the process is the having different categories of the message like transactional, personal and company so on these can be done by using the different algorithms. This is the process of the system.

This process can be done by using the algorithms the algorithms are:

- 1. Stopword removal
- Pattern matching (Regular expression, Token matching)

3. Decision tree (Date, category classification).

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Using this algorithms we can done the further process.

Then we get the expected output of the system by performing the operations on it. Then the output will display the categorized messages, starred messages and deleted messages in the recycle bin.

# 3. CONCLUSIONS

This paper will design an android application of a content based categorization or classification of SMS (text Messages)

To provide convenience to use text messages in a daily life the system proposed to prevent classification SMS which is an important problem now a days. The system can help peoples to use mobile text messaging instead of using another applications.

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