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Implementation on- Crowd Wisdom Management

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Abstract: ***Many online users with different backgrounds commonly use mobile social networking i.e. connect with one another through their different devices like PC, mobiles, tablet that can be use for purpose of crowdsourcing. As crowd workers these online users can use effect of human intelligence or crowd wisdom efficiently, but there are some following issues: 1) How to inspire online users to actively participate for contribute their knowledge. 2) How to stop users for making random guesses or copying same answers. Answers with low quality can reduce the accuracy of results. 3) How to remove them out. MacroWiz framework used for managing crowd wisdom of mobile social network. It encourages users to share their knowledge as opinion in the form of collection of answers. Wisdom collection and answer selection are two main functional units. It used for reduction of decision making delay and provide high quality answers.***
Keywords: Mobile Social Network, Crowdsourcing, Decision making, MacroWiz

I. INTRODUCTION

Now a days use of social network in people's daily life is increased. Apart from common uses of social networking like sharing data, communication, playing games and many more people can use social network for sharing their knowledge. Crowd workers with various backgrounds can also act like a knowledge contributors to a social network. A person can post questions to the crowd and requester will take decision based on answers received from the crowd and it gives guarantee that quality of result is high or reliable. MacroWiz framework use for reducing decision making time of the results and improving the workload distribution. It shows only selected questions should remain on the platform, online users can be directed to the active questions that need more answers[1].

II. LITERATURE SURVEY & PROPOSED SYSTEM

Huge number of online users is present in mobile social network and popular services. In the existing crowdsourcing systems some issues are still remained challenging due to some reasons. Decision making is supported by Ask, Yahoo answers. In previous systems it may provide answers with low quality. This issues of decision making and low quality answers are solved by proposed crowd wisdom management system. MacroWiz framework is used to crowd wisdom managing mechanism in Mobile Social Network. It supports the online user to collecting opinions and contributes their answers and select the reliable one's and takes proper decision. Wisdom collection and answer selection are two main modules of MacroWiz framework platform.

It gathers the minimum number of answer to satisfy the requirement of requester to analyse the effectiveness and accuracy as well as cost of each answer by using Binary model and approximation algorithm. It will select have high accuracy and another answers will be discarded. It use for reduction of decision making delay, improvement of workload distribution, quality of answer selection will improve etc.

III. SYSTEM ARCHITECTURE

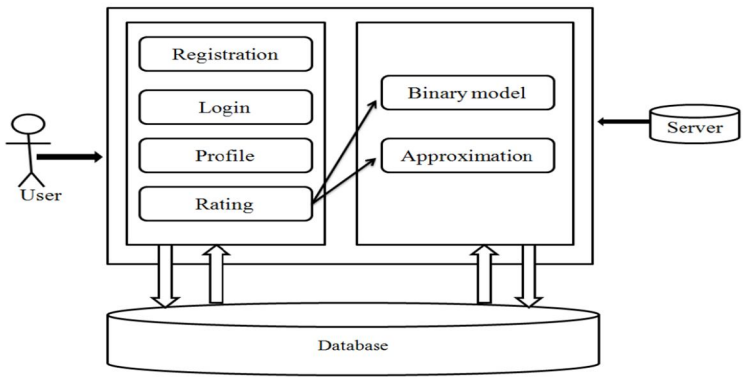

Figure 1. System Architecture

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In the system architecture initially online user do the registration. The registration contain different fields like user name, E-mail id, contact number, password etc, so this information will be stored in a database. After the registration of user if the login is valid the online user has authority to give ratings. Answers with the high accuracy will selected and another remaining answers will be discarded. Approximation means it can use for error checking and it gathers answers those are send by online users. For the decision making we will consider factors like age, occupation etc. By this we will get final result by considering input of user i.e. rating.

IV. IMPLEMENTATION

In the Crowd Wisdom Management we are using concept of the crowd sourcing in which deals with obtaining services, ideas or content from a group of people. In our project we are using the MovieLens dataset which contains user id, rating and different fields. In the implementation first we have designed the GUI which consists of the login information. After login validation of input and authentication of user identity is done. We are using feature selection is the important concept which also known as variable selection/attribute selection. It is process of subset selection of the variables and predictors. Feature selection technique used for shorter training time to process data, to avoid curse of dimensionality, simplification of models. For processing of the dataset we are using approximation algorithm, for decision making process binary model and also users can give input as rating to movies. So for getting the final result we are calculating dataset values plus user inputs. For getting more accuracy we are doing classification of the dataset on the different values like occupation, age. This factors help to improve accuracy of the final result.

A. Working flow of Crowd Wisdom Management

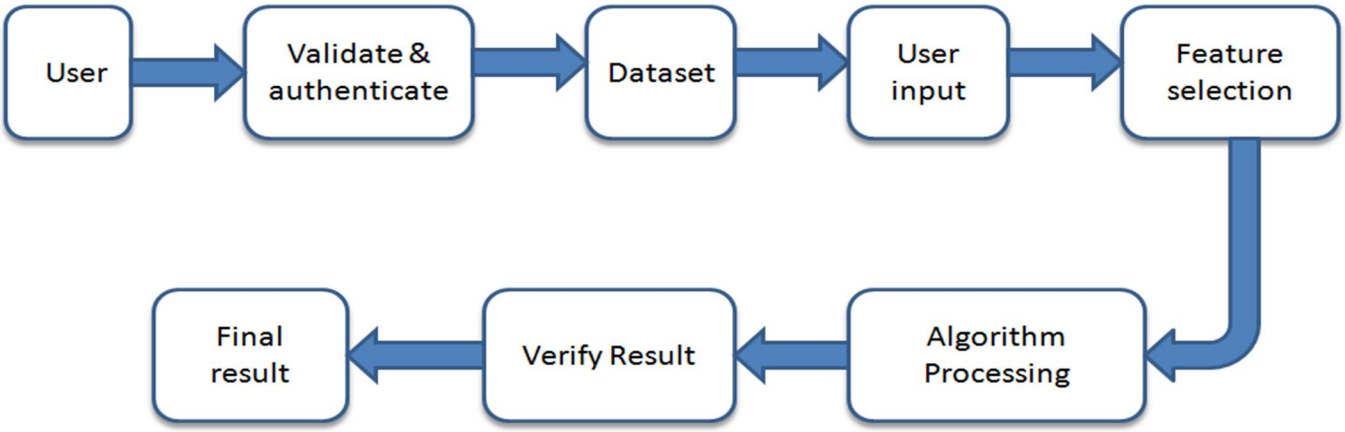

Figure 2. Working flow

V. CONCLUSION

In this application we have designed the online wisdom management system demonstration using MovieLens dataset. In this we collect the different rating from different online users which is answer collection and to select the appropriate result by considering dataset values is result generation and user input and display only the selected result and other results will be eliminated with less accuracy and cost.

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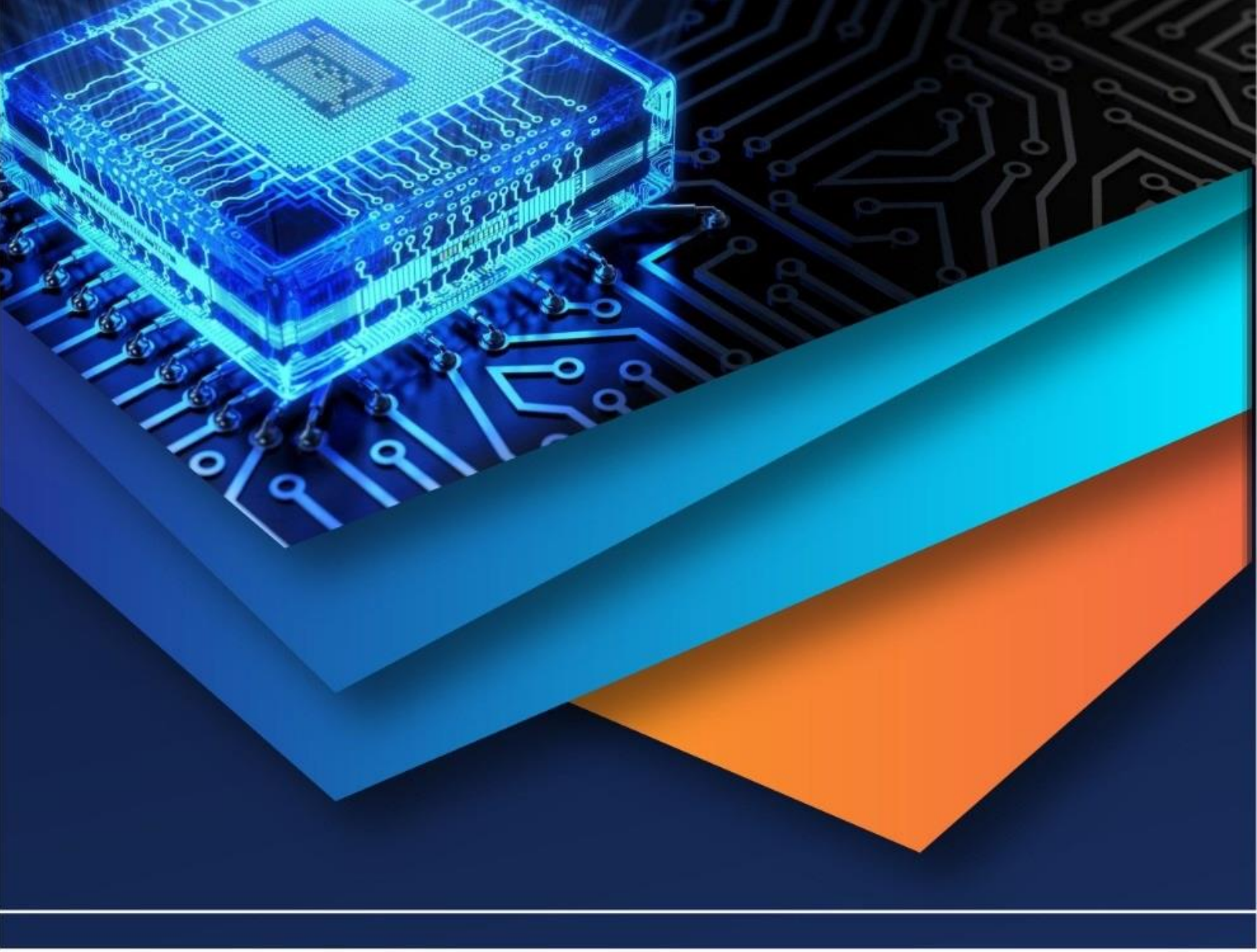

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