

# Solution for Farmer Consumer Interaction

Mahesh M. Jadhav<sup>1</sup>, Akash V. Ingale<sup>2</sup>, Sandhya N. Hiranwale<sup>3</sup>, Umesh M. Bhavsar<sup>4</sup>

Computer Department, Sinhgad Institute of Technology, Lonavala, India<sup>1, 2, 3, 4</sup>

**Abstract:** Owing from the advanced unrest occurring in most people in every viewpoint we do anticipate innovation infringing among farmer client communications as nicely. Our proposed paper goes for giving a system where correspondence among farmer and clients could be held thru android primarily based application. Our target might be collectivizing agriculturist's especially little makers at specific levels over a few states to cultivate innovation infiltration, enhance profitability, and empower improved get admission to to inputs and services and increment agriculturist income. furthermore, giving an effective manner wherein ranchers would have the capability to pick out their horticultural produce costs and especially get joined with cease consumers, therefore destroying a part of pass between with a purpose to empower to decrease edges looked for by move among in this manner buyers can straightforwardly spot requests and look for grains or farming objects from farmers themselves. There will an effective machine given wherein opportune supplement timetable can be produced in view of the agriculturists sowing date. Farmer may be informed approximately the sporting activities he must carry out right from the time on the point whilst seed develops until the day while the harvest is ready to be amassed. Moreover rancher might be helped for his inquiries also as product illnesses thru a picture shifting device accommodated the identical.

**Keywords:** K-means algorithm, GCM.

## I. INTRODUCTION

The present circumstance of agriculturist is the one where advancement proportion of homesteads is low when contrasted with different divisions. The explanation for this circumstance is little land possessions, utilization of conventional method for cultivating, lack of education about new cultivating innovation and in addition nonappearance of arranging force for agriculturists and so on. This paper will empower minimizing expense of creation by aggregate purchasing, help to agriculturists where right from the sowing date supplement calendar will be created furthermore, in this way opportune help warnings will be sent, aggregate offering where ranchers would have the capacity to choose the rates of their horticultural create and offer specifically to clients with no arbiters included in the entire situation. This will in the long run build overall revenue of ranchers; empower clients to get agrarian items at moderate expenses, productive learning and utilization of late patterns and bundle of practices. To give forward and in reverse correspondence linkage as for business sector, expand net revenue of agriculturists, empower the ranchers in minimizing expense of generation, prepare agriculturists with opportune supplement plan and with information about bundle of practices, and channelize work through Android based availability between the agriculturists and client. To give examined reports of information database.

The auxiliary goal of outlining the framework is to add to a portable based android application that can be utilized by any client. Framework is so easy to understand that an agriculturist needs to select the necessities from menu of the portable and required data is conveyed server end and in like manner data is sent back accordingly. Once this application is downloaded and introduced in Android telephone client ought to get the notices before the day when activity is to be performed.

## II. LITERATURE SURVEY

### A. E-Agro Android Application (Integrated Farming Management Systems for sustainable development of farmers)

**Author:** Shubham Sharma, Viraj Patodkar, Sujit Simant, Chirag Shah

This product application is fundamentally for supportable improvement of agriculturists. Commonly rancher is befuddled to take choice with respect to determination of manure, pesticide and time to do specific cultivating activities. So to maintain a strategic distance from this issue this application is exceptionally valuable. Compost timetable of every kind of harvest will get enlisted. Taking into account sowing date of yield, agriculturist will get updates about use of manure according to plan. Extra guidance will be given in light of Soil sort, climatic condition and so on. This framework consolidates present day Internet and portable correspondence frameworks with GPS for proficient and smooth cultivating. This audit paper shows the presentation, hypotheses and investigation of DBMS in agribusiness. This paper is created on brief investigation of some basic issues confronted by the ranchers the country over. This venture goes for conveying the sparkle of 21st century to that 70% populace who are area admirers.

### B. Application of k-Means Clustering algorithm for prediction of Students' Academic Performance

**Author:** Oyelade, O. J, Oladipupo, O. O, Obagbuwa, I. C

The capacity to screen the advancement of understudies' scholastic execution is a basic issue to the scholarly group of higher learning. A framework for breaking down understudies' results in light of bunch investigation and uses standard measurable calculations to organize their scores information as per the level of their execution is

portrayed. In this paper, we too actualized k-mean grouping calculation for breaking down understudies' result information. The model was consolidated with the deterministic model to dissect the understudies' aftereffects of a private Institution in Nigeria which is a decent benchmark to screen the movement of scholarly execution of understudies in higher Institution for the reason for settling on a compelling choice by the scholastic organizers.

**C. Data Mining Techniques and Applications to Agricultural Yield Data**

**Author:** D Ramesh, B Vishnu Vardhan

Data Mining is developing examination field in Agriculture product yield investigation. In this paper author attention is on the utilizations of Data Mining procedures in agrarian field. Distinctive Data Mining systems are being used, for example, K-Means, K-Nearest Neighbor (KNN), Artificial Neural Networks (ANN) and Support Vector Machines (SVM) for extremely later uses of Data Mining strategies in horticulture field. In this paper consider the issue of foreseeing yield generation. Yield expectation is a vital agrarian issue that remaining parts to be tackled in light of the accessible information. The issue of yield expectation can be comprehended by utilizing Data Mining systems. This work goes for finding suitable data models that accomplish a high precision and a high all inclusive statement as far as yield forecast capacities. For this reason, distinctive sorts of Data Mining systems were assessed on diverse information sets.

**D. AgroMobile: A Cloud-Based Framework for Agriculturists on Mobile Platform**

**Author:** Shitala Prasad, Sateesh K. Peddoju, Debashis Ghosh

Today, utilization of cell phones is exceptionally basic by everybody, including the agriculturists. Presentation of Information and Communication Technologies (ICT) has seen a sharp part in day by day life of agriculturists. Prior, ranchers used to rely on upon mists for downpours were investigating the Cloud Computing (CC) for their answers towards development of better harvests in advanced farming world. The customary routines utilized by the agriculturists, especially in India, are moderate and problematic. The harvests are harmed in field itself because of malady assaults and absence of data assets. This misfortune develops more than 40% altogether yearly. This paper proposes different courses in which a rancher can use MCC on their handsets utilizing application called AgroMobile, to help them for generally better development and promoting. The primary consideration of this work is centered on yield picture examination. Picture handling procedures requires extensive measure of calculation force and memory to prepare for which cell phone comes up short. Thus, this system utilizes MCC, which essentially, these creators trust that, places cloud into a rancher's pocket. The test setup uses apparatuses like OpenNebula 2.0, and

MATLAB 2012b. In this examination an Android based cell phones are utilized for testing yet this is not by any means the only gadget.

**III.SURVEY OF PROPOSED SYSTEM**

This paper will enable minimizing price of manufacturing by using collective buying, help to farmers where proper from the sowing date nutrient schedule might be generated and consequently well timed assistance notifications can be sent, collective selling where farmers might be capable of decide the quotes in their agricultural produce and sell without delay to customers without any mediators involved within the entire situation. This may eventually boom income margin of farmers, enable clients to get agricultural products at low-cost fees, efficient information and use of recent traits and bundle of practices. The secondary goal of designing the device is to expand cellular based android software that may be used by any person. system is so consumer pleasant that a farmer has to pick out the requirements from menu of the mobile and required records is brought server stop and as a consequence records is dispatched lower back in reaction. As soon as this software is downloaded and hooked up in Android smart phone person must acquire the notifications previous to the day whilst action is to be achieved.

**IV.SYSTEM ARCHITECTURE**

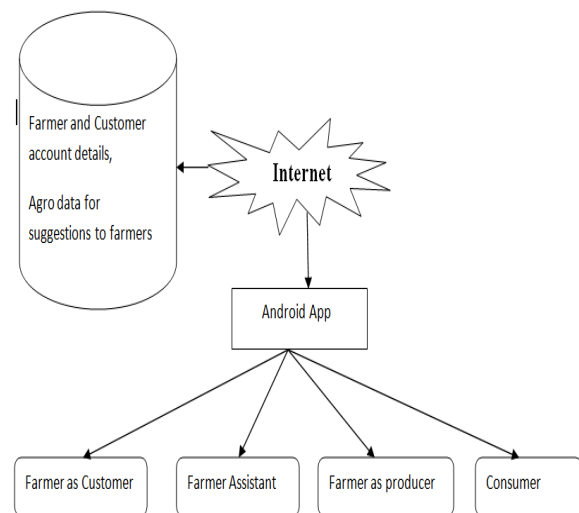


Fig.-1 System Architecture

**V. MATHEMATICAL MODEL**

Let S be the system object and it consist of  
 $S = \{I, P, O\}$   
 I= Input  
 P= Process  
 O= output  
 $I = \{U, G\}$   
 U= No of Users and their details  
 $U = \{u1, u2, u3, \dots, un\}$   
 G=Goods details  
 $G = \{g1, g2, \dots, gn\}$   
 $P = \{SG, N, A, P, ST, DB\}$

SG= search for goods  
N= notifications either positive or negative  
A= advice for good, their diseases.  
P=Payments per goods  
ST= status of the good delivery  
DB= Database  
O= {Res}  
Res= get expected results.

## **VI. CONCLUSION AND FUTURE WORK**

The purpose for this concept is to collectivize agriculturists, particularly little makers, at different levels over a few states, to cultivate innovation infiltration enhance efficiency, empower enhanced access to inputs and administrations and increment rancher livelihoods, in this way fortifying their agrarian based vocations. Set up a correspondence connection in the middle of farmer and client. It manages rendering proficient correspondence purchasing at productive costs, getting things required for delivering at any rate costs, also connecting makers to their direct buyers with no go mediators. This android based gadget would be extremely helpful and channelize the present situation of correspondence.

## **ACKNOWLEDGMENT**

We might want to thank the analysts and also distributors for making their assets accessible. We additionally appreciative to commentator for their significant recommendations furthermore thank the school powers for giving the obliged base and backing.

## **REFERENCES**

- [1]. Shubham Sharma, VirajPatodkar, SujitSimant, Chirag Shah ,Prof. Sachin Godse, "E-Agro Android Application (Integrated Farming Management Systems for sustainable development of farmers)" in International Journal of Engineering Research and General Science Volume 3, Issue 1.
- [2] Oyelade, O. J.,Oladipupo, O. O,Department of Computer and Information Sciences, College of Science and Technology, Covenant University, Ota, Nigeria. Obagbuwa, I.C from Department of Computer Science Lagos State University, Lagos, Nigeria "Application of k-Means Clustering algorithm for prediction of Student's Academic Performance" in(IJCSIS)International Journal of Computer Science and Information Security,Vol.7,No.1, 2010
- [3] D Ramesh, B Vishnu Vardhan "Data mining techniques and Application to agricultural yield data." In International Journal of Advanced Research in Computer and Communication Engineering Vol.2, Issue 9, September 2013.
- [4] Shitala Prasad1, Sateesh K. Peddoju2 and Debashis Ghosh3, "Agro Mobile: A Cloud-Based Framework for Agriculturists on Mobile Platform" International Journal of Advanced Science and Technology Vol.59, (2013), pp.41-52.