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# Smart Market Yard System

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**Abstract:** Agriculture is the backbone of Indian economy. It is one of the major sectors of Indian economy known as primary market. Agricultural Marketing study is the study of all the activities, agencies and policies included in the procurement of farm inputs by the farmers and the procedure of movement of agricultural products from the farmers to the consumers.. Traditional marketing system which was highly regulated opened up owing to changing system and emerging agribusiness. Increase in marketable surplus of agricultural commodities, urbanization and changes in consumption pattern have also contributed to the changing systems. Accordingly, both the Central and State governments initiated policy reforms in marketing to address to the drawbacks in the existing marketing to meet the challenges and requirements of emerging business opportunities. This led to the evolution of new initiatives in marketing of agricultural commodities. Commodities produced have to support a series of operations such as threshing, storage, winnowing, transportation, harvesting, bagging processing and interchange before they reach the market, and as visible from many studies across the country, there are considerable losses in commodities output at all these stages. In this system We send the commodity to the buyer agent. In this paper we develop the android application in that farmer send the commodity to shopkeeper.

Keywords: Commodities, Data Mining, Agricultural Commodities, Support Vector Machine (SVM), and Logistic Regression (LR)

#### I. INTRODUCTION

Growing demand for high-value food commodities is new opportunities for farmers, especially for smallholders to diversify towards commodities that have strong potential for higher returns to land, labor and capital. It is to satisfy the customer at optimum cost. Due to globalization, liberalization and advancement Market liberalization and globalization are causing a transformation in agriculture and agree-food markets in India. So we make Android application and in that Farmer send her commodity with Agent. Then Agent deliver his commodity to that gate person. Then gate person check her details. And the details is Farmer Name, Product, Vehicle name, and then Agent name. This type of information they will get. Then Agent deliver his commodity to that supplier. And Supplier at the end Generate the report. Admin check the Agent activity. As well as admin see the Agent route. And to detect and improve the fraudulent activities. The main objectives of study were to identify the arrival pattern of certain produce and their values in to the market yard; to find out the perceptions of the farmers on overall marketing infrastructure support; to determine the problems faced by farmers while using this infrastructure.

#### II. LITERATURE SURVEY

## 1. H. Zhang, Z. X. Cao, M. Li, Y. Z. Li, and C. Peng, "Novel naïve Bayes classification models for predicting the carcinogenicity of chemicals," Food Chem. Toxicol., vol. 97, pp. 141–149, 2016.[3]

Carcinogenicity refers to a highly toxic end point of certain chemicals, and has become an important issue in the drug development process. In this study, three novel ensemble classification models, namely Ensemble SVM, Ensemble RF, and Ensemble XGBoost, were developed to predict carcinogenicity of chemicals using seven types of molecular fingerprints and three machine learning methods based on a dataset containing 1003 diverse compounds with rat carcinogenicity. Among these three models, Ensemble XGBoost is found to be the best, giving an average accuracy of  $70.1 \pm 2.9\%$ , sensitivity of  $67.0 \pm 5.0\%$ , and specificity of  $73.1 \pm 4.4\%$  in five-fold cross-validation and an accuracy of 70.0%, sensitivity of 65.2%, and specificity of 76.5% in external validation. In comparison with some recent methods, the ensemble models outperform some machine learning-based approaches and yield equal accuracy and higher specificity but lower sensitivity than rule-based expert systems. It is also found that the ensemble models could be further improved if more data were available. As an application, the ensemble models are employed to discover potential carcinogens in the Drug Bank database. The results indicate that the proposed models are helpful in predicting the carcinogenicity of chemicals. A web server called CarcinoPred-EL has been built for these models.



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# 2. M. S. Mulyadi and Y. Anwar, "Corporate Governance, Earnings Management and Tax Management," Procedia - Soc. Behav. Sci., vol. 177, pp. 363–366, 2015.[1]

For the first time in Iran, this study aims at discussing the effect of corporate governance on employee voice. Reviewing basic theories of the research shows that corporate governance has a huge effect on employee voice. Therefore, in Iran insurance organization, the relation between corporate governance and employee voice outcomes has been analyzed. The result of this research denies the positive and meaningful relation between corporate governance with employee discouragement, organization indifference and inters organization objections and then confirms the positive and meaningful relation between corporate governance with increasing employee motivation and empowering them and their teamwork.

# 3. E. Rahimikia, S. Mohammadi, T. Rahmani, and M. Ghazanfari, "Detecting corporate tax evasion using a hybrid intelligent system: A case study of Iran," Int. J. Account. Inf. Syst., vol. 25, pp. 1–17, 2017.[2]

This paper concentrates on the effectiveness of using a hybrid intelligent system that combines Multi Layer Perceptron (MLP) neural network, Support Vector Machine (SVM), and Logistic Regression (LR) classification models with Harmony Search (HS) optimization algorithm to detect corporate tax evasion for the Iranian National Tax Administration (INTA). In this research, the role of optimization algorithm is to search and find the optimal classification model parameters and financial variables combination. Our proposed system finds optimal structure of the classification model based on the characteristics of the imported dataset. This system has been tested on the data from the food and textile sectors using an iterative structure of 10-fold cross-validation involving 2451 and 2053 test set samples from the tax returns of a two-year period and 1118 and 906 samples as out-of-sample using the tax returns of the consequent year. The results from out-of-sample data show that MLP neural network in combination with HS optimization algorithm outperforms other combinations with 90.07% and 82.45% accuracy, 85.48% and 84.85% sensitivity, and 90.34% and 82.26% specificity, respectively in the food and textile sectors. In addition, there is also a difference between the selected models and obtained accuracies based on the test data and out-of-sample data in both sectors and selected financial variables of every sector.

#### III. PROPOSED SYSTEM

Following diagram is our system's architecture diagram:



In System architecture In system architecture market yard has a three main phases such as a following:

#### 1. Gate Entry

In this phase the gate person can reusing application can register the application . then registration is successful then login the application. Gate person can check the following Scenario:-

- 1. Commodity type
- 2. Farmer name
- 3. Farmer City
- 4. Commodity Quantity
- 5. Vehicle number
- 6. Agent Name



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2. Shopkeeper

In this phase they can search the Commodity name and price. As well as the they can check the commodity quantity and Quantity of commodities.

**3. Manager:** - the whole report are generate to manager.

Data mining is crucial for extracting and identifying useful information from a large amount of data.

Kmean Algorithm-

The best number of clusters k leading to the greatest distance is not known as a priori and must be calculated from the data. The objective of K-Means clustering is to minimal total intra-cluster variance, or, the squared error function: Algorithm. Clusters the data into k number of groups where k is predefined.

Disicion Making

A subset of rules is selected from the many extracted knowledge to meet the established decision-making criteria. The parameter values presented by the conditions of this set of rules are called a decision signature. A model and algorithms for the selection of the desired, decision signatures will be developed. The parameters which is use in this model are upgrade using a framework provided by the learning classifier systems.

#### IV. MATHEMATICAL MODEL

Mathematical Model:

S={s, e, i, o, functions, DD, NDD, Success, Failure}

s = initial state = Registration and login

e = end state = Manager view Report about all process

i = Input = Using application farmer send this commodity to buyers

o = output = Smart Market yard

Functions = {f1, f2, f3, f4, f5, f6, f7, f8}

f1 = Registration

f2 = Login

f3 = Farmer

f4 = Agent

f5 = Gateperson

f6 =Commodity

f7 = buyers

Deterministic data = for same input return the same result at any time Non deterministic data = result will vary every time for given input success condition = It will display the result failure condition = Wrong inputs.

#### V. CONCLUSION

To avoid the fraud like tax fraud and to track supplier and import- export vehicle. This system will manage by manager and they can see the Real time entries of Commodities. System will gives some authorities to the Shopkeeper in which they can edit following things How much Quantity sold out, Type of Commodities, Quantity of Commodities and also provide search option with filters like By Commodities, By Name, By Price.

#### VI. RESULT

← → C	0	localhost 8080	/MarketYard/BuyerD	etails.jsp?id=						\$	0	θ
						Daily	Report	t				
Buyer Name	Rate	Farmer Name	Farmer Mobile No	Farmer City	Commodity	Commodity Quantity	Vehicle No	Date				
Akshay	2000	Rahul Sharma	8805668974	Amrawati	Moong	50	MH22AO4897	2019-04-12 04:03:33 p	n Select			
Robit	2000	Parshu Gore	7875180936	Jaina	Tur	20	MH02AL0205	2019-04-12 04:42:35 p	n Select			

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🗅 localhost8080/MarketYard/Dail/ 🗙		- 8 ×
← → C ③ localhost8080/1	KarketYard/DailyTransaction.jsp	☆ ⊘ ⊖ :
	Daily Transaction Report	

Agent Id	Agent name	Email	Mobile	
1	Sarvesh Khandelwal	aaa@gmail.com	7709454160	Select
2	Pavan Kumar	abc@gmail.com	0987654321	Select
3	Rushabh Khimavat	rushabh@gmail.com	8983730340	Select



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#### Prediction

Commodities	Average In Quintal	Low Rate	High Rate
SOYABIN	707.0	2500.0	3850.0



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Commodities	Average In Quintal	Low Rate	High Rate
MUNG	38.0	400.0	6700.0



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