

# Food Recommendation System

D.S.Gaikwad<sup>1</sup>, Anup.V.Deshpande<sup>2</sup>, Nikhil.N.Nalwar<sup>3</sup>, Manoj.V.Katkar<sup>4</sup>, Aniket.V.Salave<sup>5</sup>

<sup>2,3,4,5</sup>Student, Dept. of Computer Engineering, NBSSOE, Pune, Maharashtra, India

<sup>1</sup> Professor, Dept. of Computer Engineering, NBSSOE, Pune, Maharashtra, India

\*\*\*

**Abstract** - Synthesizing , analyzing the patterns , relations and rules among the data known to be as mining.

Extraction is basically done by the process of extracting useful relations and patterns from the massive database that is where the database is stored in data warehouses.

Proposed system does the same work as the methodology of data mining that is finding relations and patterns among the data.

By implementing advanced techniques in data mining like machine learning it would enhance the scope of the system.

**Key Words:** mining, Machine learning, Patterns, Recommender Knowledge discoveries

## 1.INTRODUCTION

What's for dinner? Every household face this problem almost every day. So to resolve these kind of situation this novel approach will help the end user to give the best suggestions depending on the available inventory.

Our Indian culture has rich set of festivals on which we always cook some special cuisines.

On the basis of these days this system will recommend the end user various dishes that can be prepared.

By implementing advanced techniques in data mining like machine learning, it would enhance the scope of this system. Depending on your patterns the system will guide end user breakfast, brunch, lunch and dinner. Every mankind has a different taste when it comes to food. It can relate patterns of the system to the taste of individual.[2]

In early life, problems like what to cook is major issue. People may get confused about the food. To tackle the problems like the same recommender systems are developed. such system are used for example, to recommend a product that may interest a buyer.

This approach may be deployed in market for commercial purpose for using in restaurants, malls etc. System gives commendations for individuals taste. Proposed system is designed to tackle problems like what's for dinner! As a result of this situation many studies and knowledge techniques comes in picture for recommendation system. Generations of our age get irritated by consuming same type of food every day. Recommendation system provides

best alternative hence individual have list of food that can be made with the items available from the inventory. Injecting the approach in the market gains the maximum profit guarantee.[3]

## 2.LITERATURE SURVEY

Basic idea behind the Mining process is to extract patterns from massive database. Recognition of specific patterns from database is a challenging task.[1]

By avoiding the redundancy from the patterns specific patterns can be made. Massive datasets has similarities in patterns. Proposed system neglects the similarity between the patterns resulting in best solutions possible.

Databases containing huge data might have noisy datasets in it. This will result in pattern anomaly.[3]

Retrieving the specific pattern process extremely beneficial in knowledge and discoveries from processed data to benefit the industries.

## 3.EXISTING SYSTEM

1. Recommender systems that are available today appends the user about various recipes.

2. Output of the recommender system is quite unfeasible sometimes due to lack of available ingredients.

3. Recommender system may not give the result as per the users taste.

4. Indian culture has sets of in particular recipes . Existing system would give recipes like thai foods , Chinese . It won't be acceptable by Indian consumers.

## 4.Proposed System

1. Recommender systems that are available today appends the user about various recipes.

2. Output of the recommender system is quite unfeasible sometimes due to lack of available ingredients.

3. Recommender system may not give the result as per the users taste.

4. Indian culture has sets of in particular recipes . Existing system would give recipes like thai foods , Chinese . It won't be acceptable by Indian consumers.

## 5. ARCHITECTURE DIAGRAM

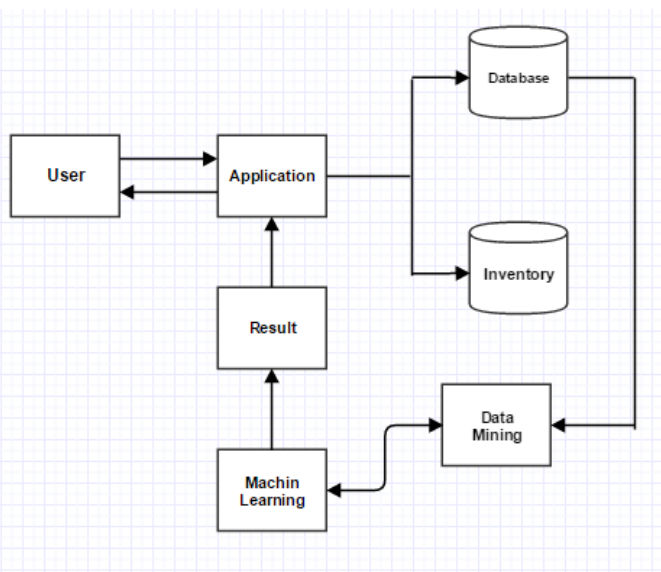


Fig. 1: Architecture diagram(Food recommendation system)

## 6.CONCLUSIONS

The system provides a user friendly interface which would interactively receives information from approached system which gives optimal solution for end user.

## REFERENCES

- [1] A. Kumar, P. Tanwar and S. Nigam, "Survey and evaluation of food recommendation systems and techniques," *2016 3rd International Conference on Computing for Sustainable Global Development (INDIACom)*, New Delhi, 2016, pp. 3592-3596.
- [2] W. Husain, Lee Jing Wei, Sooi Li Cheng and N. Zakaria, "Application of data mining techniques in a personalized diet recommendation system for cancer patients," *2011 IEEE Colloquium on Humanities, Science and Engineering*, Penang, 2011, pp. 239-244.
- [3] M. Phanich, P. Pholkul and S. Phimoltares, "Food Recommendation System Using Clustering Analysis for Diabetic Patients," *2010 International Conference on Information Science and Applications*, Seoul, 2010, pp. 1-8. doi: 10.1109/ICISA.2010.5480416.