

RANKING OF ONLINE FOOD ORDERING AND DELIVERY APPLICATIONS USING DEEP
QUEUE LEARNING DATA ANALYTICS IN SOCIAL COMMUNITY ENVIRONMENT

¹Dr.Syed Khasim, ²Dr. T. Thulasimani, ³Chandra Sekhar Reddy L, ⁴Apurv Verma,
⁵Rajakumar M P

¹Professor, Department of Computer Science and Engineering, Dr.Samuel George Institute of
Engineering & Technology, Markapur, Prakasam Dt, 523316, India.

²Assistant Professor, Department of Mathematics, Bannari Amman Institute of
Technology, Sathyamangalam-638401, Erode District, Tamil Nadu, India.

³Assistant professor, CMR College of Engineering and Technology, Kandlakoya (v),
Medchal-501401, Hyderabad.

⁴Assistant Professor, Department of Computer Science and Engineering, School of
Engineering & I.T, MATS University, Raipur, Chhattisgarh-493441, India.

⁵Associate Professor, Department of Computer Science and Engineering, St.Joseph's College
of Engineering, OMR, Chennai - 600 119, Tamilnadu.

Abstract - Nowadays, the usage of internet based applications and services are widely used such as travelling, food ordering, shopping, shipping, etc. In this paper, we propose Deep queue learning method for predicting and ranking of online food ordering delivery applications. Online website and mobile applications are available commercially deliver the food and provides variety of discounts. In this work, we cluster the food and rank based on customer reviews, ordering/delivery time, user satisfaction and cost. Ranking is done by using Association rule mining for food items placing, repetitive orders and making places. The objective behind this how this platform is more useful for customer as well as suppliers. We take opinion poll from customers and suppliers that is also considered for comparison. The technology are growing rapidly some system is needed for monitoring online processing and applications. We use Google TensorFlow for analyzing and predicting the performance of online food ordering and delivery applications. Deep queue learning model is proposed for applying our input attributes and Python API code for testing accuracy. The trained and test dataset is collected from various applications. Reviews and opinion is also taken into account. For these inputs we create deep convolutional neural network model for making effective decisions. The results and ranking are calculated by using TensorFlow and performance is compared.

Key words: Ranking, Deep queue learning, Convolutional neural network, TensorFlow, Online applications

1. Introduction

Food is an important part of our lives. The food industry is the basic and most important online food ordering system for every country, through which a person can order a variety of food and beverages from a restaurant and use the internet while sitting at home or anywhere. Order can be given easily with one touch [1]. Many of the world's leading food distribution companies and AI technology companies are collaborating to deliver fast food to consumers using robots, drones and

self-driving cars. The ranking method is the simplest performance of the evaluation method. In this way, foods range from the best in the group to the worst. Ranking is the relationship between a group of objects, like any two elements, the first being more or less equal to the second [2].

The simplicity of this method outweighs the negative impact of giving food a 'bad' and a 'good' rating. One food is compared to another in terms of taste, price, hygiene and some other benefits. Ranking of health hazards related to food safety and nutrition is generally considered. Ranking is a technique that can be used to identify the most significant risks. In food safety management, it plays a key role in determining priorities in the decision-making process [3].

It's science and engineering to build intelligent machines, especially intelligent computer programs. It has to do with a job like using a computer to understand human intelligence. It has the ability to learn and solve problems. It allows computers to make people think smarter. Central principles of AI include logic, knowledge, planning, learning communication, comprehension, and the ability to move and change objects [4]. In the rankings, AI is used to calculate the profile automatically. It also refers to scheduled checks for your profile. It ranks each performance based on their performance and course return. It gathers feedback and clarifies its best course. AI is a multidisciplinary interdisciplinary science, but advances in machine learning and in-depth study are creating a paradigm shift in all areas of the technology industry. Health risks associated with food security and nutrition are recognized as the basis of artificial intelligence. Online food distribution in India is now a growing and widespread phenomenon platform for food distribution like Somato and Swiggy. The Artificial Intelligence Solution offers many opportunities to optimize and automate this process, save money, and reduce human error for many industries. AI benefits restaurants and bars in food production [5].

2. Related Works

Shweta ShashikantTanpure, Priyanka R. Shidankar, Madurai M. Joshi et al, the rapid growth of mobile technology and wireless technology is having a huge impact on our lives. The Android app on the user mobile contains all the details. Order details from the customer's mobile are updated wirelessly in the central database and then sent to the kitchen and cashier, respectively. This research activity aims to automate the food processing process in restaurants and improve the food experience of the customers [6][7].

This system successfully completes the shortcomings of the previous PDA-based food ordering system and is more expensive and efficient than the multi-touch restaurant management system. The wireless app on mobile devices facilitates convenience, saves time, improves the efficiency and accuracy of restaurants, minimizes human errors, and provides real-time customer feedback. It is a wireless food ordering system that smartphones use to place orders. Android smartphones are seen as a necessary tool to provide telemedicine. There have been some initial attempts to integrate these two technologies for the advancement of the hospitality industry [8][9].

Colesb, H. J. B. Marvin, L. ; J. Phrovarb et al, Security Critical review methods to assess the risks posed by food safety and food hazards based on human health impacts. Conducted a literature review to identify and classify risk ranking practices from food sectors. Health risks related to food security and nutrition are identified based on rank-based priority and resource allocation. The

technical concept of risk depends on the risk and severity of the impact on human health, which has been identified as the basis for risk-based priority and resource allocation [10].

Consumer exposure and size beyond measure. Public health impact of specific chemical, microbial and / or food-related nutritional hazards. This method has been applied in chemical and microbiological hazards. For comparative risk assessment (CRA) analysis, the number of preventable deaths can be calculated if the current distribution of the risk factor exposure is converted to the equivalent alternative distribution. The risk due to high exposure shows a higher risk, although its severity is lower. On the other hand, due to the high toxicity, it poses a high risk despite low exposure. A simple method of assessing the risk of chronic disability is not sufficient for weakness, especially in cases of low or no symptoms in the acute phase of the disease [11].

3. Proposed Model

Ranking model - Simple evaluation method using various items. A set of mathematical systems of calculation designed to produce the result. Supervised, semi-supervised, or reinforcement study in the construction of ranking models for data recovery systems.

Continue studying in AI - A machine learning subcommittee with an algorithm that allows you to train yourself in software. Ability to learn supervised data from structured or unlabeled data. Artificial Intelligence has a wide variety of commercial applications that offer in-depth learning features. They were selected to describe and monitor the activities. Financial services, transportation services, customer services, automated applications, etc. provide the following services in the selection and acquisition process.

Google Tensor Flow - Open source software library for numerical computing. Also used for in-depth learning applications. Data is processed automatically and results are generated. Researchers Scientists are data scientists Programmers. Everyone can use the same toolset to collaborate and improve their efficiency.

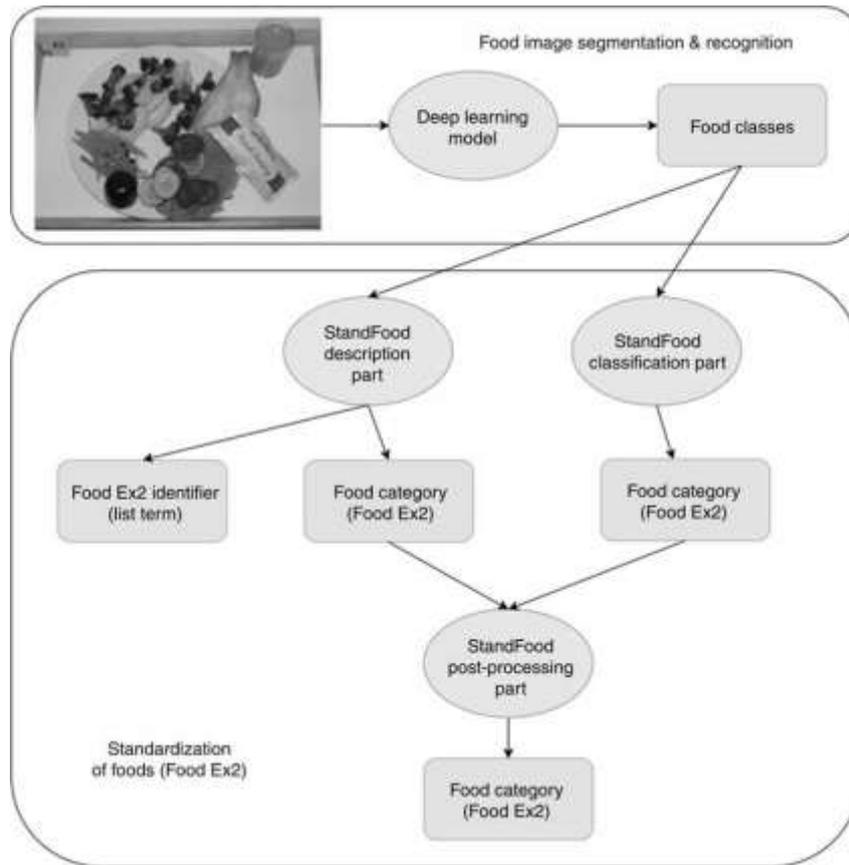


Figure 1: Flow Diagram of Proposed Ranking Model

Google has no data; They have the largest computer in the world, so the tensor is built to scale flow. Tensorflow is a library developed by the Google Brain team to accelerate machine learning and in-depth neural network research. It is designed to run on multiple CPUs, GPUs, or mobile operating systems, and includes multiple wrappers in many languages, such as Python, C ++, or Java.

DEEP Q - Q-Learning is a model free reinforcing learning algorithm. The goal of Q-practice is to learn how to tell an agent what action to take in any situation. It does not require a model of the environment and can handle the problems of simple transitions and rewards without the need for adaptations. The source of deep reinforcement practice is pure empowerment practice, where problems are generated by Markov decision processes (MDP). The study defines strengthening the environment in which the agent performs certain actions (according to the procedure) to maximize rewards.

4. Implementation

The objective of this paper in trajectory algorithm describes the user's interaction with web. In our proposed, a trajectory of a web page time speed is high and the viewing page quality also high, when compared to some others. trajectory algorithm performance compared with the existing fuzzy c means and Expectation Maximization (EM).The existing algorithm is not more efficient but the proposed (TPPM)Trajectory algorithm works very easily in decreasing the time occupying process and it may be user friendly. The user can interact with the same page many times but the page may load quickly without any disturbances and this is the results efficiency of website and web user. The visual websites also showed that our model.

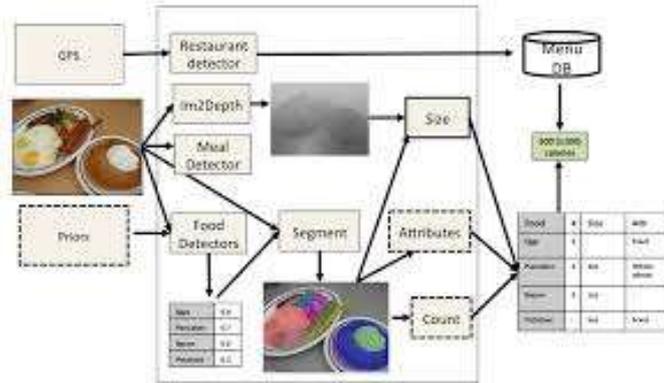
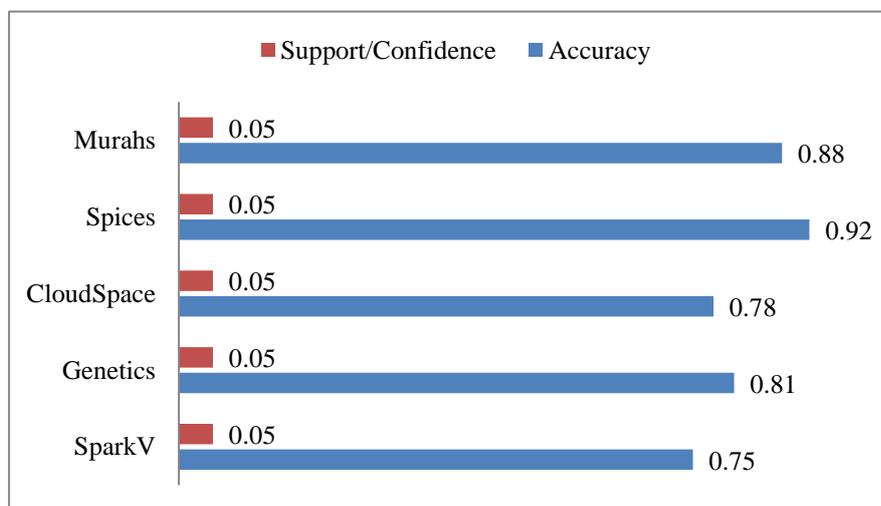


Figure 2: Ranking Model using TensorFlow

We used Weka and R-tool for data analytics process and Google TensorFlow for prediction and Accuracy. The following table 1 shows that performance of Food Applications and delivery factor.

Apps	Accuracy	Support/Confidence	Iteration	Looping
SparkV	0.75	0.05	2,5,10,15	10
Genetics	0.81	0.05	2,5,10,15	10
CloudSpace	0.78	0.05	2,5,10,15	10
Spices	0.92	0.05	2,5,10,15	10
Murahs	0.88	0.05	2,5,10,15	10

Table 1: TensorFlow result of accuracy factor



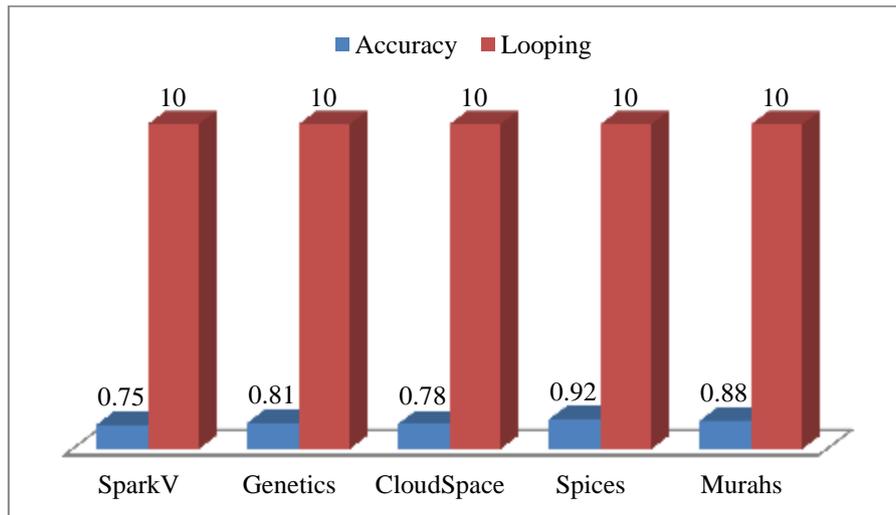


Figure 3: Comparison of accuracy factor various data analytics tools using support/confidence and looping

5. Conclusion

Many problems in the food industry can be solved with technology. There is a way to reduce the time limit of people, because if we need breakfast, lunch, dinner etcit is very difficult for people to buy what we need to go to the hotel, so we use this online ranking system. It is safe for the consumer because they can avoid the journey of buying food at night. The system includes ranking online websites and finding popular websites using the Deep Learning method. Growing technology is changing the needs of the people to ensure that they can develop a website called "Online Food Ordering and Ranking System". Simple evaluation method using various items. A set of computational mathematical systems designed to generate results. The result of food restoration shows that systematic use of data mining based e-learning system as part of the learning design process has improved the quality of recovery.

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