



Survey on Android Based System for Street Food Recommendation

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ABSTRACT-

Decision concerning what and wherever to eat could be a major drawback in our everyday lives because of a large sort of ingredients, cookery designs, ethnicities, cultures and private tastes. Selecting right dish at the proper time appears to be a really tough task. Thus ,this research proposes associate degree integration of a deep neural network with a recommendation system with Thai food as our check domain. The pro-expose system extracts interested ingredients from the set of recipes of user's favorite dishes that's given before victimization the system. The options square measure extracted form the analysis of favorite ingredients them a user profile is evaluated by a system of deep neural network (DNN).The system conjointly collects history of elite dishes together with user profile during a information. The system can predict consecutive dishes employing a temporal prediction system on the profile and consumption history.

Keywords:Android Studio, Kotlin, Machine Learning, APIs,Classification, Regression, Deep Neural Network(DNN).

I. INTRODUCTION

Making call concerning what and wherever to eat may be a major downside in our everyday lives thanks to a large kind of ingredients, cookery designs, ethnicitiescultures and private tastes. Selecting right dish at the proper time appears to be a really tough task. Thus ,this research proposes associate degree integration of a deep neural network with a recommendation system with Thai food as our check domain. The pro-expose system extracts interested ingredients from the set of recipes of user's favorite dishes that's given before victimization the system. The options square measure extracted form the analysis of favorite ingredients them a user profile is evaluated by a system of deep neural network (DNN).The system conjointly collects history of elite dishes together with user profile during a information. The system can predict consecutive dishes employing a temporal prediction system on the profile and consumption history.

II. LITERATURE REVIEW

A)Literature review on Street food vendors Jurdak and Shahin,[1] studied street food vendors of national capital supported mental procedure methods to possess an improves understanding regarding their mathematical behaviours drawback finding skills. Lues et al.[2] stress the requirement for office correct intervention and coaching on hygiene food handling practices to encounter the unfold of food borne sickness that were did not taken cate of at city. Lucan et al.[3] was a hunt study conducted at The Bronx that known Communication ability as a significant challenge round-faced by most of the mobile food vendors. They face inconsistency in operating hours and site with "Moving target" as their business system inexperienced and Nguyen[4] studied regarding lifetime of street grocery store at hour angle Noi in Vietnam whatever girls occupy the bulk of commerce community as street food vendors .Hiemstra et al.[5] conducted associate applied mathematics study that projected most(69%)of street food vendors don't use coming up with strategy on comparison with those who used were additional futurist in thoughts and were additional no-hit. Williams and Gurtoo [6] studied the explanations behind a street entrepreneurs supported anti-formalisation and pro-rationalisation theories. The compositions of entrepreneurs were found to ne 12%-Necessity driven,15%-Traditional ancestral, fifty six-Rational economic selection and 17%-Social reasons. Steyn et al.[7] studied on consumption pattern of street and nourishment at African nation ,it had been found Socio-economic individuals were the most important proportion of customers in comparison to different teams. Rajagopal[8] explored were individuals of Mexico's looking behaviour was were sold-out as contemporary and that they have additional convenience for leisure looking no matter standards in hygiene observe. Omemee and stressed the requirement for presidency intervention so as to coach and regulate street food vendors in Food Safety and Hygiene practices. Street food was thought-about to produce nutrients to the urban and rural populations at a reasonable value. The road food pyramid market structure, wherever most of the customers' demand is for the low-priced product commodity trade goods during this paper, numerous lean drivers area unit consistently captured and their relationship between the drivers area unit analysed mistreatment instructive structural systeming for the road food sector. This technique infers, the client relationship management driver is hierarchical within the initial level and thus ought incline the best importance followed by food service management and value management drives within the serial rank levels.

Special analysis of crop maps by special production allocation Spatial Production Allocation System (SPAM), developed by International Food Policy analysis Institute (IFPRI), is one among broadest special systems that applied a cross-entropy methodology to downmarket the world and yield for every crop with a resolution of five arc minute globally for the year 2000 and 2005 to judge the accuracy of 3 staple crops (rice, wheat and maize) in China allotted by SPAM, we have a tendency to compared these crop maps with remote detected cropland derived from national land cowl datasets. This is often done through a comparison theme that accounts for special distinction at the element level. Four varieties (no-existing, mis-allocated, over-estimated and reasonable) were developed during this theme that was accustomed value the per-pixel space accuracy of every of the 3 crops on national and Spatial Production Allocation System (SPAM), developed by International Food Policy analysis Institute (IFPRI), is one among broadest special systems that applied a cross-entropy methodology to downmarket the world and yield for every crop with a resolution of five arc minute globally for the year 2000 and 2005 to judge the accuracy of 3 staple crops (rice, wheat and maize) in China allotted by SPAM, we have a tendency to compared these crop maps with remote detected cropland derived from national land cowl datasets. This is often done through a comparison theme that accounts for special distinction at the element level. Four varieties (no-existing, mis-allocated, over-estimated and reasonable) were developed during this theme that was accustomed value the per-pixel space accuracy of every of the 3 crops on national.

III. PROBLEM DESCRIPTION AND SOLUTION

Street Food is associated automaton based mostly application that helps to look or give notice to person for desired street food at close places in his/her space.

Why street food ?

- Cheap/Inexpensive
- Represents the native cooking.
- Save time
- Food ready before of you.
- Street food is luscious
- Contributes native Economy

The food recommendation system provides the precise and therefore the right away recommendations regarding the food item and shows its rating given by customers. The projected system can permit customers to mull regarding what to eat. This method additionally provides recommendation of the highest street Foods on the premise of votes and ratings profit to the organic phenomenon business solely food domains square measure functioned and controlled by the system particularly the domains that have registered or login within the code this can be enforced by victimisation user feedback.

Additionally, meal recommendation systems not solely provide foods that match users preferences however additionally advise on sensible food choices, monitor intake habits, recognise health problems and urge users to change their behaviour.

IV. RELATED WORK AND DESIGN

Module:

Admin

In this module the Admin should login by exploitation valid username and countersign. When login productive he will do some operations like read all users and Authorize, read all Ecommerce web site and Authorize View All merchandise and Reviews, Views all merchandise Early reviews read all keyword search Details read all merchandise search quantitative relation read all keyword search results read all product reviews rank results. View and Authorize users in this module, the admin will read the list of users United user's details like, user name, email, address view charts results:

- View all merchandise search quantitative relation, view all keyword search results view all product review rank results.
- Ecommerce user in this module there area unit n numbers of users area unit gift. User ought to registers before doing any operations. Once user registers, their details are keep to the information. When registration productive he should login by exploitation licensed user name and countersign once login is productive user can do some operations like add merchandise, read all merchandise with reviews, read all early product's reviews, read all purchased transactions.
- End user in this module there area unit n numbers of users area unit gift. User ought to register before doing any operations. Once user registers, their details can best or to are information. When registration productive, he should login by exploitation licensed user name and countersign. Once Login is predictive user can do some operations like Manage Account search merchandise by keyword and buy, read your search transactions view. This system could be Pune-Based app that has been developed with associate aim of connecting foodies to their favourite local road food stalls and vendors. The thought behind the system was to place a reputation to the cardinal stalls folds street food corners one comes across and build it accessible on the system for people to check and revel in. This system is that the newest system in city that helps you to connect with the local road food vendors aka your favourite street food in an exceedingly a lot of efficient manner.

SYSTEM ARCHITECTURE:

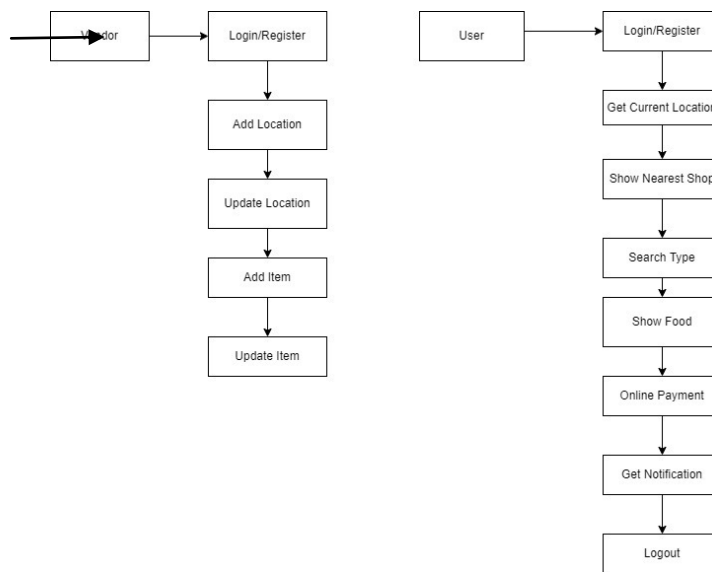


Figure 1. SYSTEM ARCHITECTURE

Safety Demand

The application is meant in modules whatever errors will be detected and stuck simply. This makes it easier to put in and update new practicality if needed. Software Quality Attribute Our software system has several quality attribute that square measure given below:

Adaptability: This software system is adjustable by all users.

Availability: This software system is freely out there to all or any users. The supply of the software system is simple for everybody.

Maintainability: when the preparation of the project if any error happens then it will be simply maintained by the software system developer;

Reliability: The performance of the software system is best which is able to increase the dependability of the software system.

User Friendliness: Since the software system could be a graphical user interface application; the output generated is way user friendly in its behaviour.

Integrity: Integrity refers to the extent to that access to software system or knowledge by unauthorized persons will be controlled.

Security: Users squares measure attested victimization several security phases thus reliable security is provided.

Testability: The software system are tested considering all the aspects.

DFD level 0 diagram



Figure 2. DFD level 0 diagram

The given DFD diagram shows the architecture of our app. In our app the user have following options like add location, get location, show nearest location, search type, show food , get notification. While searching food we have this kind of option provided.

DFD level 1

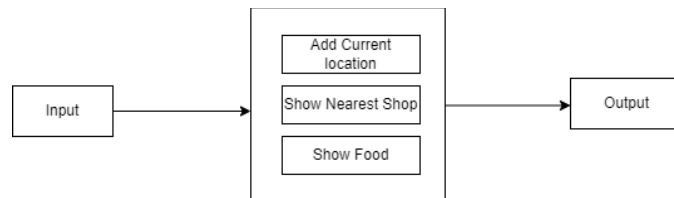
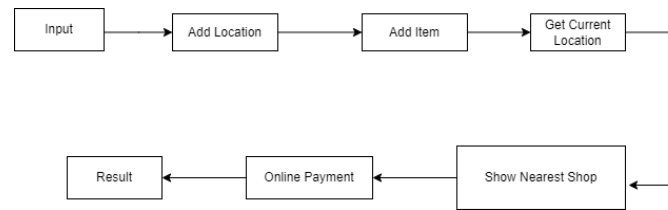


Figure 3. DFD level 1 diagram

The given DFD is for user side DFD in that user can add his/her location in the system, then our system shows the nearest shop to the user.

DFD level 2**Figure 4. DFD level 2 diagram**

This we also provide online payment through our system. After finding the shop if we have to payonline we can pay instead going to google pay or phone pay or any other payment app we can pay through this system as well.

V.CONCLUSION

We build this app for people to find street food easily. In day to days life most of people wants to eat in minimum money but in more quantity so most of the people prefers street food.

From our street food system we recommend the famous street food and where the user in the area, the surrounding street food will recommend so that user do not get any problem while finding the food.As most of the people, students came in Pune from different city so they don't know much about the street food so through this system that will go easy for finding only street food which famous in Pune as well new which located in Pune where the user is.

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