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COVID CERTIFCATE VERIFICATION FOR E-TOURISM ON BIG DATA AND AI: A FRAME WORK USING HYBRID RECOMMENDER SYSTEM FOR USER PREFERENCE

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ABSTRACT

In this modern technology lot of better communication and a global computer network is in advance level. In Online Travel Agency (OTA) the tourist data has been multiplied at all levels of hotels, heritage, restaurants, etc.. To assist tourists have been planning their trip it is easily to identify the information what they are looking for , many recommender systems have been developed. In proposed system the tourist recommender system are based the approach of hybrid recommendation. And also I want to attach the ceritificate of COVID 19 for secure and harmful travelling of people. In Modern Technology we are having large number of peoples so I use the Big data And AI.

Keyword: User preference, content-based filtering, collaborative filtering, hybrid system, User Preference Model with Government Approval (UPMGA).

1. INTRODUCTION

In tourism planning, recommender systems could be a great help when planning a trip or searching for a service among many destinations, attractions, and activities. The user's want to collected their necessity information about the travelling places such that similar tastes, habits and ratings with the customer that have enjoyed lot in that, this approach is used in the collaborative filtering process. In content Based filtering the users chooses the most recommendation of cultural heritage.

In Context aware filtering the user know the information on geolocation, weather and visit history. In Hybrid recommender system to use the three approaches of content based, collaborative filtering and context based approach.. And Also The main aim of this project is to stop spreading of COVID -19 among the people..

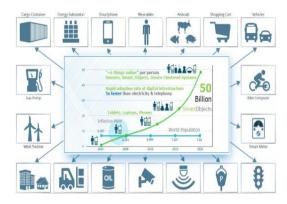


Figure.1 Factor that driven the BIG DATA.

2. LITERATURE REVIEW

In this paper they discussed about the content-based filtering and the recommender system. The effective tourism planning is done. Laura Sebastian et al. The user thinking and need is changing daily. Based on the user recommendation the data is processed Gediminas et al. The text mining helps to identify the rating given by various tourist. The analyzing text message takes place. The information exchange between the various social media users were identified

for giving better user preference S. Loh et al. Mobile recommender system is helpful in developing mobile application. The semantic approach is developed to analyze the information exchange between the users. It is helpful for developing user preference model. D. Gavalas et al. There is so many challenges in developing recommender system from social media. They are keeping more efficient information about tourist destination places, providing useful tourist guides, personalized tourist plans etc... Cenamor et al. The context system follows aware an automatic arrangement method to produce a multiple-day plan. In this method user profile, social media working and potential point of interest in user is identified et al. In context aware filtering we can gather the data such as climatic condition, social media sentiment and user preference are widely learned the location-based system is very useful in developing applications to improve the user preference K. Meehan et al. The interaction between the user and system is

widely used. The main objective is to develop eh context aware applications et al. In tourism the data is growing exponentially. The user preference is developed by understanding the customer behavior. Based on the behavior of customer the user preference personalized. This gives the overall roll of the big data in tourism industry O. Boulaalam et al. In this paper the work is carried out based on the social network algorithms. The filtering techniques, and artificial intelligence techniques. The location based recommended system is used to guide the user J. Borras et al. The overall survey helped me to develop a user preference model. In this the user profile is updated after the selection of the package. As a result the user data is secure.

3. USER PROFILING

The various options given to user to book a package is called user profiling. The various functions are

1. User Registration

The User information's are gathered. He or she will be provided with username and password. Each and every time they need to use the username and password for updating his/her detail.

2. Admin authentication

The admin authentication process is an automatic process. Once the user has given his/her data it will be validated. The login will be provided. The admin will monitor the entire process of the user.

3. Package Creation

The user once got the username and password they are allowed to select the tour package with the terms and condition. Which will be displayed in the website?

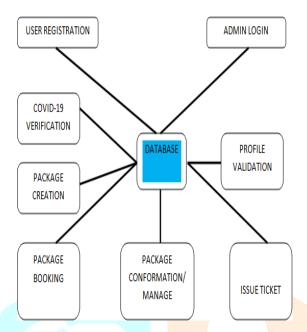
4. Package Booking confirmation/manage

The Package booking is the next phase. In this the user will pay money and conform his booking.

5. Admin confirmation/manage

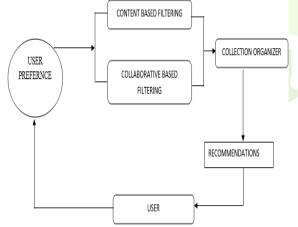
In this phase admin will validate the availability of packages, rooms, etc. Once the admin processed the user data tickets will be issued with data time and venue for pickup.

4. CONTENT-BASED FILTERING



In content based filtering is widely used in tourism recommendation systems.

In this method selects the resources based on their user preferences such that user



feed backs and using semantic relationships between items.

5. COLLABORATIVE FILTERING

In collaborative filtering techniques the user collect their informations with similar items between the two users to be calculated based on their similarity of their rating history. In this approach it is very difficult to find two people on the same trip, with the same duration, the same places of interest, and the same experience

6. USER PREFERENCE HYBRID RECOMMENDER SYSTEM

The Figure.3 shows the his or her preference. The input will give to two different algorithms content based filtering and collaborative based filtering. The output from the both the algorithm are organized by collective organizer. Which the sends the data to recommender. The recommender will send the data to user. The user can easily select the package.

7. USER PREFERENCE MODEL WITH GOVERNMENT APPROVAL (UPMGA)

In this phase all the registration process will be over. The process will takes place between the

Figure.2. User Preference Model with Government Approval (UPMGA).

admin database and government database. The COVID-19 certificate verification process will take phase. If the validation of COVID-19 is failed the package will be cancelled. This intimation will be given to the user immediately.

DataFlowDiagram

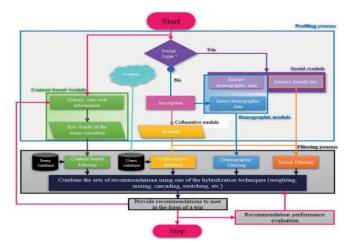


Figure.4 Login

8. RESULT

8.1 LOGIN FORM

The login for is created for both user and admin. The user profile will be verified by admin. The database will store the information of admin and user. The above figure shows the login form for both use and admin.

8.2 COVID-19 VERIFICATION



Figure.5 COVID-19 Verification

The COVID-19 verified certificate is got from the user. This process is carried out at the time of booking. If the certificate is not valid the booking will be cancelled. As a result, spreading of pandemic virus is reduced. It helps in improving the tourism all over the world safely.

9. CONCLUSION

In this paper I use the hybrid recommender approach for improving the better visitors experience of the most relevant data items and also to helping then to personalize his trip. Then In additional Iam using the COVID-19 verification certificate for improving the e-tourism on all over the world.

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