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Tours and Travel Recommend System Using Machine Learning Techniques

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ABSTRACT-Intelligent Agent is a new method of designing and developing software system. Agent-based processing technology has become a new breakthrough in the development of software engineering and a new revolution in software. The relationship between user satisfaction and tourism e-commerce function is discussed, and the relationship between user satisfaction and the purpose of tourism e-commerce supplier is tested. Web data mining is one of the key technologies to realize Web personalized service. Through the analysis of tourists' behavior (interest), the corresponding model is established to provide personalized service for users according to the model. The traditional tourism industry is obviously unable to comply with the development trend, and the corresponding industrial structure transformation and upgrading is necessary. With the advent of the era of personalized information services, the personalized service provided by the tourism e-commerce environment is also of great significance and practical value for improving the satisfaction of tourists and the competitiveness of merchants. This paper analyzes the reasons that affect the customer satisfaction of tourism e-commerce, and proposes corresponding countermeasures.

1. INTRODUCTION

The improvement of current data innovation and organization innovation, web based business, which depends on the Internet and other PC advances, has arisen as the occasions require, and has developed quickly [1]. As a delegate of the new monetary model, internet business has gotten increasingly more consideration from all nations on the planet. With the data framework for travelers, it is smarter to give guests pertinent data and planned administrations. Like the travel industry objective exercise, the travel industry costs, travel courses, transportation, convenience, amusement, neighborhood customs, dietary patterns, etc. To help sightseers pick the best travel courses and travel time, make enviable travel choices [2]. Get the best joy of the travel industry utilization essentially cost, work on the faithfulness of sightseers to the site, and in this manner improve the seriousness of the site. The travel industry has one of a kind benefits in creating online business [3]. The travel industry has become one of the most well known and energetic specialized administrations on the Internet [4]. The nature and qualities of the travel industry itself, just as friendly information and monetary systems administration, verify that travel industry has novel benefits in creating power over business. With the ceaseless development of this innovation, the utilization of computerized reasoning, in actuality, is turning out to be increasingly famous. In spite of the fact that China's travel industry web based business is creating quickly, there are as yet numerous issues and troubles. Site data refreshes gradually, online exchanges are cool, unfit to draw in vacationers [5]. The area of the site is too restricted to even consider taking into account vacationers from everywhere the world, or even to dispose of phonetic and social contrasts. Man-made brainpower is a part of PC science. For researchers, the embodiment of AI research is to comprehend the embodiment of insight [6]. Thus, it produces a brilliant machine that responds in another manner that is like human insight. The most effective method to help guests as soon as possible observe the data they need and turn potential guests into purchasers is difficult for movement internet business destinations. Work really hard in client relationship the executives, offer customized types of assistance for clients, and become the course of online business activity and advancement [7]. China is a country with bountiful the travel industry assets and an enormous client market. In this manner, the travel industry web based business has incredible potential and space for improvement in China's the travel industry market.

II. RELATED WORK

As a representative of the new economic model, e-commerce has received more and more attention from all countries in the world. With the information system for tourists, it is better to provide visitors with relevant information and scheduled services. Such as tourism destination activities, tourism costs, travel routes, transportation, accommodation, entertainment, local customs, eating habits and so on. In order to help tourists choose the best travel routes and travel time, make reasonable travel decisions [2]. Get the greatest pleasure of tourism consumption at the least cost, improve the loyalty of tourists to the website, and thus enhance the competitiveness of the website. Tourism has unique advantages in developing e-commerce [3]. Tourism has become one of the most popular and lively technical services on the Internet [4]. The nature and characteristics of tourism itself, as well as social information's and economic networking, determine that tourism has unique advantages in developing electricity over business. With the continuous maturity of this technology, the application of artificial intelligence in real life is becoming more and more popular. Although China's tourism e-commerce is developing rapidly, there are still many problems and difficulties. Website information updates slowly, online transactions are cold, unable to attract tourists [5]. The location of the website is too narrow to cater to tourists from all over the world, or even to eliminate linguistic and cultural differences. Artificial intelligence is a branch of computer science. For scientists, the essence of AI research is to understand the essence of intelligence

III. METHODOLOGY

we will implement system for transport companies and small vendor like shopkeeper. Our system will help to take smart decision using ML algorithm First we will collect data of transportation from any company or Kaggle or create a custom dataset. We will training our system based that data. We are planning to build web application and Android application for user and company.

Support Vector Machine" (SVM) is a supervised machine learning algorithm that will be used for both classification or regression challenges. It is mostly used in classification problems. Here we plot each data item as a point in n-dimensional space (where n is a number of features you have) with the value of each feature being the value of a particular coordinate. Then, we perform classification by finding the hyper-plane that differentiates the two classes.

IV. EXPERIMENTAL RESULT

We are able to recommend the solution for new business using the data set available which is custom built.

Another area for better customer experience is robotics. Using robotics they perform service automation[26- 27]. Some researchers have shown the use of robotics for service automation in tourism sector, for car rental, travel agent booking and how the companies are facing challenges for adoption of robots for better service in tourism sector[26]. Tourism sectors mostly experience better customer experience in service automation using robotics science, recommendation system using intelligent algorithms, chatbots are another agents presently travel sectors are using for better customer service

V. CONCLUSION

In this project work we have studied smart transportation system using machine learning methods to predict transportation and sales for company and small vendors.

We gone through different research papers and dataset they designed system for destination only. Our proposed system will propose better understand the opportunity available to grow business.. This system will create a safe area for to grow sustainable business in tours and travel by using machine learning.

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