A

SYNOPSIS REPORT

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INDEX

Sr No.	Topics	Page No.
1	Abstract	3
2	Introduction	4
3	Aims & Objectives of Project	6
4	Literature Review	7
5	Proposed Work	8
6	Research Methodology	11
7	Conclusion	13
8	Future Scope	14
9	References	15
10	Bibliography	16

ABSTARCT

Travel planning can be a complicated and time-consuming process, often requiring extensive research and organization. This paper introduces an innovative AI-powered travel app designed to make planning easier and more enjoyable. By integrating artificial intelligence (AI), the app aims to offer users a more personalized and efficient travel experience.

The app uses AI technologies like machine learning and natural language processing to improve travel planning in several key ways. First, it provides personalized travel recommendations by analyzing user preferences, previous trips, and current trends. Instead of sifting through countless options, users receive suggestions tailored specifically to their interests and needs.

Second, the app helps users create optimized travel itineraries. It considers factors such as user preferences, travel dates, and real-time data like weather conditions and local events. This ensures that users have a well-organized plan that adapts to changing circumstances, enhancing their overall travel experience.

Third, the app offers real-time assistance through an AI-powered chatbot. This feature allows users to ask questions and get instant updates about their travel plans, bookings, and local conditions. It helps resolve issues quickly and provides timely information, making the travel experience smoother and less stressful.

Finally, the app integrates with various third-party services such as flight bookings, hotel reservations, and local transportation. This integration ensures a seamless travel experience by connecting all aspects of a trip into one platform.

The goal of this research is to develop and test this AI-powered travel app to see how effectively it can simplify travel planning and improve user satisfaction. By analyzing user feedback and app

performance, the research will evaluate the impact of AI features and identify areas for further enhancement.

In summary, this AI-powered travel app aims to revolutionize travel planning by offering personalized recommendations, optimized itineraries, real-time support, and seamless integration, making the entire process easier and more enjoyable for users.

INTRODUCTION

Artificial Intelligence (AI) has become one of the most talked-about technologies of the modern era, influencing nearly every industry, including travel. AI refers to machines or software programs that can learn from data, make decisions, and perform tasks that typically require human intelligence. From voice assistants like Siri and Alexa to recommendation engines that suggest the next movie or product you might like, AI is all around us. In the travel industry, the integration of AI into travel apps has transformed how people plan their journeys, make bookings, and experience travel itself. AI has allowed travel apps to offer more personalized services, predict user preferences, and improve efficiency in ways that were unimaginable just a few years ago. However, despite all the exciting potential, there are also several challenges associated with AI in travel, ranging from data privacy concerns to the risk of biases in AI systems.

At its core, the goal of AI in travel apps is to make the process of planning and experiencing a trip easier, faster, and more enjoyable. In the past, planning a trip required significant effort: travelers had to search for flights, compare hotel prices, find things to do, and figure out how to get from place to place. This often involved a lot of manual work, from checking different websites to making phone calls. AI has simplified this process by doing much of the work for the user. For example, if you want to book a trip to a new destination, AI-powered travel apps can recommend flights, hotels, and activities based on your preferences, past trips, and budget. It can even help you decide when the best time to book is, predicting price changes and alerting you when deals are available. This

personalization, based on vast amounts of data collected from millions of users, is one of the most powerful aspects of AI in travel.

Another important application of AI in travel apps is dynamic pricing. This involves using AI to adjust prices in real time based on supply and demand, user behavior, and market trends. Airlines and hotels have been using dynamic pricing for years, but with AI, this process has become much more sophisticated. For example, if an app detects that a certain flight route is becoming more popular, it can increase the price for that route to maximize revenue. Similarly, if a hotel has a lot of available rooms, it might lower the price to attract more bookings. This helps both the traveler and the company, as travelers can sometimes find great deals by booking at the right time, and companies can maximize their profits. Apps like Hopper, for instance, use AI to predict when flight prices will rise or fall, helping users decide the best time to book their tickets.

AI-powered chatbots and virtual assistants are also transforming the travel experience by offering round-the-clock customer support. Gone are the days when travelers had to wait on hold to speak with a customer service representative. Today, AI chatbots are available 24/7 to answer questions, provide information, and assist with booking changes or cancellations. These chatbots are powered by Natural Language Processing (NLP), a form of AI that allows them to understand and respond to user queries in a conversational way. For example, if you want to know the status of your flight, a chatbot can provide real-time updates. If you need to modify your booking, it can guide you through the process without the need for human intervention. While chatbots might not replace human agents entirely, they significantly reduce wait times and help resolve simpler issues quickly.

Another area where AI is making a big impact is in travel logistics. AI can analyze real-time data on traffic, weather, and other factors to provide travelers with the most efficient routes and travel options. For instance, Google Maps uses AI to recommend the fastest route based on current traffic conditions, helping users avoid congestion. In aviation, AI is used to optimize flight routes, saving time and fuel.

4

AI can also predict delays and suggest alternative flights or routes, helping travelers make decisions that minimize disruption to their plans. This kind of real-time decision-making is crucial for improving the travel experience and reducing stress for travelers.

Despite all the exciting advancements, there are also several challenges and limitations to consider when it comes to AI in travel apps. One of the biggest concerns is data privacy. AI systems rely on vast amounts of personal data to function effectively. This includes information such as your location, travel preferences, browsing habits, and even your payment details. While this data allows AI to provide personalized services, it also raises concerns about how that data is collected, stored, and used. Users often worry about the potential for data breaches or misuse of their personal information, especially when sensitive data is involved. Travel companies must take data privacy seriously and implement strong security measures to protect user data and comply with regulations like the General Data Protection Regulation (GDPR).

Another challenge is the issue of algorithmic bias. AI systems learn from data, and if that data contains biases, the AI can end up making biased decisions. In the travel industry, this can result in unfair outcomes for certain users. For example, dynamic pricing algorithms could charge higher prices to certain groups of people based on their location, browsing habits, or even income levels. This kind of bias can lead to unequal treatment of users and damage the reputation of travel companies. To prevent this, companies need to ensure that their AI systems are trained on diverse and representative datasets, and that they regularly audit these systems to detect and address any biases

that may arise.

A related concern is algorithmic transparency. AI algorithms are often seen as "black boxes" because their decision-making processes are not always clear or easy to understand. This lack of transparency can create mistrust among users, especially if they feel that the AI is making unfair decisions, such as manipulating prices or offering biased recommendations. For instance, a traveler might wonder why they are being shown more expensive flights than someone else or why a specific destination is being promoted to them. To build trust with users, travel companies need to make their AI systems more transparent by explaining how decisions are made and ensuring that these systems are fair and unbiased.

Ethical considerations also come into play, particularly when it comes to dynamic pricing. While dynamic pricing can help companies maximize profits, it can also lead to ethical dilemmas, especially when users are charged different prices for the same product or service. For example, two travelers booking the same flight might pay different prices based on factors like their location, browsing history, or booking time. This can create a sense of unfairness among consumers and lead to dissatisfaction with the platform. Travel companies need to balance profitability with fairness and transparency to maintain user trust and avoid negative perceptions.

Another limitation is the high cost of implementing AI technologies. Developing and maintaining sophisticated AI systems requires significant investment in infrastructure, talent, and data management. This can be a challenge for smaller travel companies that may not have the resources to invest in advanced AI technologies. While large companies like Google, Expedia, and Airbnb can afford to build cutting-edge AI systems, smaller companies might struggle to keep up with the rapid pace of technological advancement. Moreover, while AI can automate many aspects of the travel experience, some users still prefer human interaction, particularly when dealing with complex travel issues or personalized services. This limits the full automation of AI in travel services, as there remains a need for human involvement in certain areas.

AIMS AND OBJECTIVES OF PROJECT

AIM:

The aim is to develop an AI-powered travel app that delivers personalized travel recommendations, optimized itineraries, and real-time assistance. This app seeks to simplify travel planning and enhance user satisfaction by leveraging advanced AI technologies.

OBJECTIVES:

- 1. **Personalized Recommendations**: Use AI algorithms to analyze user preferences, past travel data, and current trends to provide tailored suggestions for destinations, accommodations, and activities.
- 2. **Optimized Itineraries**: Implement predictive analytics to create efficient and adaptable travel itineraries based on user preferences, travel dates, and real-time factors like weather and local events.

- 3. **Real-time Assistance**: Develop an AI-powered chatbot to offer instant support, answer user queries, and provide updates on travel conditions, bookings, and other relevant information.
- 4. **Seamless Integration**: Integrate with third-party services such as flight bookings, hotel reservations, and local transportation to provide a unified and streamlined travel experience.
- 5. **User Experience Enhancement**: Continuously gather and analyze user feedback to refine the app's features and ensure it meets the needs and expectations of travelers.
- 6. **Data Privacy and Security**:Implement robust measures to protect user data and ensure secure interactions within the app.

LITERATURE REVIEW

The integration of Artificial Intelligence (AI) into travel apps has dramatically transformed the travel industry, reshaping how users plan, book, and experience travel. AI technologies such as machine learning, natural language processing (NLP), and predictive analytics have enabled travel apps to offer personalized recommendations, streamline operations, and provide real-time customer service. A significant aspect of AI's impact on travel apps is the personalization it offers. AI-driven algorithms analyze vast amounts of user data—including preferences, past behaviors, and browsing patterns—to generate customized recommendations for accommodations, flights, and activities. Studies show that this level of personalization enhances user experience by offering options tailored to individual needs, improving satisfaction and engagement. Moreover, virtual travel assistants and chatbots use NLP to provide automated responses to customer inquiries, delivering 24/7 support with minimal human intervention.

Predictive analytics is another area where AI excels in the travel industry. By analyzing historical data and real-time inputs such as weather conditions, traffic, and booking trends, AI algorithms can forecast travel disruptions, optimize pricing, and predict demand fluctuations. This capability has proven particularly valuable for airlines and hotels that rely on dynamic pricing models to maximize revenue. AI adjusts prices in real-time based on factors such as demand, user behavior, and market

conditions, creating a more efficient system for both businesses and consumers. Research also highlights the role of AI in travel logistics, where intelligent algorithms help optimize routes, reduce delays, and improve overall travel efficiency.

In addition to personalization and predictive capabilities, emerging technologies like augmented reality (AR) and virtual reality (VR) are being integrated into travel apps, enhancing pre-travel experiences. AR allows users to overlay digital information onto real-world environments, offering interactive maps or virtual tours of destinations. VR goes a step further by immersing users in virtual environments, enabling them to explore hotel rooms, attractions, or even entire cities before making booking decisions. These immersive technologies not only enhance user engagement but also help travelers make more informed decisions, thereby improving customer satisfaction.

Despite the clear benefits, the use of AI in travel apps also raises significant concerns, particularly around data privacy and ethical use. AI-powered personalization and dynamic pricing require access to large volumes of user data, raising questions about how this data is collected, stored, and used. There is growing concern that users may not fully understand the extent of data harvesting conducted by travel companies, which could lead to misuse or breaches of privacy. Additionally, algorithmic transparency is a key issue. Studies have shown that AI algorithms, especially those used in dynamic pricing, can introduce bias, leading to unfair practices. For example, certain demographic groups or geographic regions may be targeted with higher prices or less favorable offers, leading to inequality in pricing structures. These ethical issues highlight the need for greater transparency in AI systems and stronger regulations to protect consumer rights.

Another emerging area of focus is AI's role in promoting environmental sustainability. AI can help travel companies offer eco-friendly options by optimizing routes for reduced fuel consumption, recommending green accommodations, or suggesting sustainable travel activities. As sustainability becomes a priority for more travelers, AI has the potential to play a critical role in reducing the environmental impact of travel.

PROPOSED WORK

An AI-based travel app aims to enhance the user experience by making travel planning, booking, and execution simpler, faster, and more personalized. In this work, we focus on integrating several advanced AI features into the travel app to improve its efficiency, accuracy, and user satisfaction. This involves implementing personalized recommendations, dynamic pricing, AI-powered chatbots, real-time travel updates, and other intelligent systems to create a seamless travel experience for users. The goal is to provide a comprehensive, user-friendly solution that caters to individual preferences and needs, while also addressing challenges related to data privacy, algorithmic transparency, and system bias.

1. Personalized Recommendations

A major part of this proposed work is the development of a personalized recommendation system that helps users find the best travel options based on their preferences, past behaviors, and real-time data. By using machine learning algorithms, the app will analyze the user's previous travel choices, such as destinations, types of accommodations, preferred activities, and even budget preferences. Based on

this analysis, the app will recommend suitable travel packages, flights, hotels, restaurants, and activities.

For example, if a user has previously booked beach vacations in tropical locations, the app will suggest similar destinations, like Bali or the Maldives. The app will also provide options for activities that match the user's interests, such as water sports or local sightseeing tours. Additionally, the recommendation system will be continuously updated based on the user's interactions, refining its suggestions over time. This feature will save users time by eliminating the need to manually search through numerous travel options, making it easier for them to plan trips.

2. Dynamic Pricing and Predictive Analytics

Another key element of this work is the integration of dynamic pricing models and predictive analytics. In the travel industry, prices for flights, hotels, and other services fluctuate based on factors like demand, seasonality, and market trends. By using AI algorithms, the app will monitor these factors and adjust pricing in real-time. This ensures that users are offered competitive pricing, while travel companies can maximize revenue during peak seasons and fill inventory during low-demand periods.

Additionally, the app will use predictive analytics to forecast when prices for flights or hotels are likely to increase or decrease. For instance, the system can track historical price trends and current market conditions to predict whether a flight's price will rise in the coming days. Users will receive notifications about the best times to book, helping them save money on their travel expenses. This feature is similar to what some existing apps, like Hopper, already provide but with enhanced accuracy and broader coverage across various travel services.

3. AI-Powered Chatbots and Virtual Assistants

To improve customer service and user interaction, this work proposes the inclusion of AI-powered chatbots and virtual assistants. These intelligent systems will be able to assist users with travel related queries 24/7. Instead of waiting for human customer support, users can get instant answers to their questions, such as checking flight status, modifying bookings, or finding nearby attractions.

8

The chatbot will use Natural Language Processing (NLP) to understand and respond to user queries in a conversational and human-like manner. For example, if a user asks, "What's the best time to visit Paris?" the chatbot can analyze weather data, tourist patterns, and events in Paris to provide a well rounded answer. Additionally, virtual assistants integrated with voice technologies like Google Assistant or Siri will help users with tasks like booking tickets, setting travel reminders, or even translating languages during international trips.

These AI systems will not only reduce wait times but also improve the overall user experience by providing instant, reliable assistance. Furthermore, chatbots can be personalized to understand a user's specific preferences and travel history, making their responses more relevant and helpful over time.

4. Real-Time Travel Updates and Route Optimization

Another important feature of the proposed travel app is the use of real-time travel updates and route optimization. The app will integrate with various data sources, such as traffic reports, flight status APIs, and weather updates, to provide users with real-time information about their travel plans. For

example, if a user's flight is delayed or canceled, the app will send immediate notifications and suggest alternative flights or routes.

For road travel, the app will use AI algorithms to analyze traffic patterns, weather conditions, and user preferences to recommend the fastest and most efficient routes. This feature will be especially useful for road trips or travel in congested areas where traffic delays are common. The app will not only suggest routes but also predict the best time to start the journey, helping users avoid traffic jams or adverse weather conditions.

Additionally, the system can offer suggestions for nearby points of interest, restaurants, or rest stops during the trip, ensuring that users have a smooth and enjoyable travel experience.

5. User Behavior Analysis for Improved Services

As part of the proposed work, the app will include advanced machine learning models to perform user behavior analysis. This involves tracking and analyzing user interactions with the app, such as searches, bookings, preferences, and feedback. By gathering and analyzing this data, the app will continuously improve its services by identifying trends, predicting user needs, and adjusting its recommendations accordingly.

For instance, if the app notices that a user often books last-minute trips, it might suggest destinations or travel deals that cater to spontaneous travelers. Alternatively, if the app detects that a user prefers luxury hotels and fine dining, it will prioritize higher-end recommendations in the future. The goal is to create a personalized experience for each user, making the app more intuitive and user-friendly.

6. Addressing Data Privacy and Security

While the proposed travel app will offer numerous personalized features, it is crucial to ensure that data privacy and security are prioritized. The app will collect and analyze vast amounts of personal data, such as travel preferences, booking history, location data, and payment information. To safeguard this sensitive information, the app will comply with stringent data protection laws like the General Data Protection Regulation (GDPR).

9

The app will employ encryption technologies to protect user data and ensure that it is not accessed or shared without user consent. Additionally, users will have full control over their data, including the ability to delete their data or limit what information is collected.

Transparency will be key, with the app providing clear explanations of how data is used and stored, giving users peace of mind regarding their privacy.

7. Addressing Bias and Fairness in AI

A critical part of this proposed work is ensuring that the AI algorithms used in the app are fair and unbiased. AI systems can sometimes learn from biased data, which may lead to unfair outcomes, such as different prices for the same service based on the user's location, browsing history, or other factors. To prevent this, the proposed app will regularly audit its AI models to ensure fairness in its pricing, recommendations, and services.

By training the AI systems on diverse datasets and continuously monitoring their performance, the app will strive to eliminate any potential biases. This will not only ensure fairness but also build trust

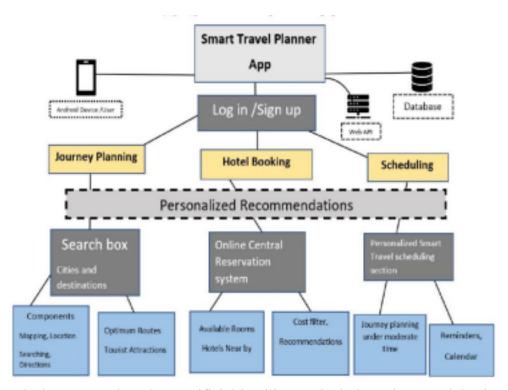
with users, ensuring that they are treated equally and fairly regardless of their background or behavior.

8. User-Friendly Interface and Experience

Finally, the proposed work will focus on designing a user-friendly interface that makes the app easy to navigate and enjoyable to use. The app will have a clean, intuitive design that simplifies the travel planning process. Whether users are looking for flights, hotels, or activities, they will be able to find what they need quickly and efficiently.

The app will also support multiple languages to cater to a global audience and provide accessible features for users with disabilities. Ensuring that the app is inclusive and easy to use for all types of travelers is a key priority in this proposed work.

RESEARCH METHODOLOGY



The smart travel planner app based on artificial intelligence include various modules journey easier and enjoyable along with all the planning done. This paper uses collaborative filtering and various technologies to design and implement this system, the app which is the first step indeed. The overall architecture of the system include 3 layers as the main modules which are journey planning, hotel booking and scheduling. After this is the main layer of personilzed recommendation through which the users are reviewing as well as anlayzing the places based on there Up next are the modules which are based on personalized layer of what the user what's exactly. Here there are again 3 modules through which the user can plan more specificially 2 sub modules for each one which is again taken down to make it easier for user to plan the journey, is finalized then personalized recommendation is given, there is search box f didn't find any in which the user can find components such as mapping, searching for directions. Also the user can search for most famous places and find optimun routes to reach there.

Journey Planning:

This is the first module of the smart travel planner app based on AI. In this the user can plan the journey according to his/her needs . Firstly it will ask the user if he wants to go in city or visit outside . Then once the user select it will ask user to enter destination and according information will be provided. The user should be planned. There is search box for searching various places in case if user's didn't find any of his interest. In search box the user can find components such as mapping, directions. Also the user can search for most famous places and find optimun routes to reach there.

Hotel Booking:

Once the journey is planned and the destination and dates are decided the user can go to the next module which hotel booking. If the user in living in the same city and has to visit nearby places which lie there then he can skip this module but for those who are visiting outside for them it is essential to find a stay, recommended hotels of the places along with its cost per day .Then the user

can select based on the recommendation given or can search also. Once the hotel is booked then it will show the reservation system but first it will check for rooms avaliability and also the cost will be displayed. If the rooms are obtainable then the reservation can be done.

Scheduling:

This is the last module in which once the journey planning and hotel booking is done the user has to schedule the journey by which dates he should start and accordingly, alerts and remainders will be set to remind him about the journey based on the times and dates entered. This will also complete the journey planning process as well as the overall overview of the journey along with time to reach specific places will be cleared.

ALGORITHM

Step 1: Start

Step 2: Create an account login

Step 3: Then Select the option {Journey Hotel Booking and Alert}

-If we select Journey,

Then add preference like (city, Restaurant Park, Mall, Historic Place, lunch and Dinner)

Enter Start time and End time

Once the journey is done it shows the done.

-If we select Hotel Booking, Here we search the hotel room availability then we book the rooms if available.

CONCLUSION

The integration of AI into travel apps has brought about significant changes in how people plan, book, and experience their journeys. AI technology has simplified many aspects of travel by offering personalized recommendations, real-time updates, dynamic pricing, and customer service through chatbots. These features help travelers save time, find better deals, and receive instant support, making the entire travel process more efficient and enjoyable. By analyzing user data and preferences, AI-powered apps can offer tailored suggestions for destinations, hotels, and activities, giving users a more customized experience.

However, with these advancements come certain challenges, such as data privacy concerns, algorithmic bias, and the high cost of implementing AI technologies. Since AI relies heavily on personal data, there is a need to ensure that this data is handled responsibly and securely to protect users' privacy. Additionally, efforts must be made to address potential biases in AI algorithms to ensure fairness in pricing and recommendations. Smaller companies might also struggle to adopt AI due to its costs, but as technology becomes more widespread, these barriers may decrease.

Overall, AI has the potential to continue revolutionizing the travel industry by making it more responsive to individual needs, reducing costs, and improving user experiences. While the technology is not without its limitations, continuous improvements in AI systems and a focus on ethical practices can ensure that travel apps benefit both users and the companies that offer them. As AI technology evolves, it will likely play an even bigger role in shaping the future of travel, creating more seamless, personalized, and efficient experiences for travelers around the world.

FUTURE SCOPE

Looking ahead, the future of the AI-enhanced travel app holds exciting possibilities for further innovation and expansion. Incorporating advanced predictive analytics could refine recommendation accuracy and anticipate user needs more effectively. Augmented reality features may offer immersive previews of travel options, while enhanced AI-driven customer support could handle complex inquiries with greater precision. Integrating sustainability features and improving cross-platform compatibility will cater to evolving user preferences and technological advancements. Additionally, bolstering security measures and developing community-driven features could address emerging trends and challenges, ensuring the app remains at the cutting edge of travel technology.

14

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15

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