**PERSONALIZED TRIP PLANNER**

*(A Project report submitted in the partial fulfilment of the requirements for the award of the Degree of)*

**BACHELOR OF COMPUTER SCIENCE**

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**DEPARTMENT OF COMPUTER SCIENCE**

**ANANDA COLLEGE**

***(****Accredited with ‘B’ Grade by NAAC****)******(****Affiliated to Alagappa University, Karaikudi****)******(****UGC Recognized under 2(f) and 12(b) Institution****)***

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**April-2025**

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**CERTIFICATE**

This is to certify that this project entitled “**PERSONALIZED TRIP PLANNNER**” is the bonafide work done by **Y. PRENEES (2221128029) & N. RAGUPATHI (2221128030)** in partial fulfilment of the award of the degree of Bachelor of Computer Science, under my Guidance.

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**DECLARATION**

I hereby declare that the project certified on “**PERSONALIZED TRIP PLANNER**” submitted in the partial fulfilment of the award of the degree of Bachelors in Computer Science. This is my original work and that has not previously formatted the basis for the award of any degree, diploma or any other similar titles.

**PLACE**: Devakottai **Signature of the candidate**

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**ABSTRACT**

The Personalized Trip Planner is an innovative, all-in-one travel management system designed to enhance the user experience by providing tailored travel recommendations and facilitating a seamless booking process. This platform allows users to create personalized profiles, enabling them to manage their travel preferences such as budget, activities, and travel dates. The user authentication and profile management features ensure that each travelers experience is unique, with recommendations that align with their specific interests. A powerful destination management module enables users to search for travel locations using filters such as budget, activity preferences, and weather, offering detailed information on local attractions, accommodations, transport options, and more. Integrated flight and hotel booking APIs allow real-time reservations, ensuring a smooth booking process directly from the platform. Additionally, the platform supports itinerary planning, helping users create customized travel schedules that include recommendations for activities, sightseeing spots, restaurants, and events tailored to their interests. Role-based access control ensures that different users, including customers, agents, and administrators, have access to relevant functionalities based on their needs. Artificial intelligence (AI) and data analytics further enhance the platform by providing personalized suggestions, such as destination, flight, and hotel recommendations based on past bookings and user preferences. To improve user engagement, the platform is complemented by a mobile app, offering the convenience of on-the-go travel management, real-time notifications, and personalized travel alerts. Furthermore, the app integrates AI-powered recommendations, providing users with relevant suggestions for activities, dining, and local events during their trips. The platform's extensive features, from its AI-driven recommendations to real-time booking capabilities, aim to revolutionize the travel industry by offering a one-stop solution for planning, booking, and executing trips seamlessly. As the platform evolves, it will continue to incorporate cutting-edge technologies such as augmented reality (AR) for virtual destination tours and further AI enhancements to provide increasingly accurate and insightful travel recommendations, ensuring a personalized and unforgettable travel experience.

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