**Personalized Travel Planning System**

**Abstract**

A social media activity-based travel suggestion system offers a personalised location of interest to suit individual user requirements and tastes. The user's preference for certain travel places may, in general, alter over time. In order to determine current travel interests, we have timely examined users' Twitter data as well as that of their friends and followers. Travel-related tweets are identified by a machine learning classifier. Personalised trip recommendations are then derived from the travel tweets. Our suggested model, in contrast to the majority of personalised recommendation systems, incorporates time-sensitive recency weight to account for a user's most recent interest. Here, we're using several Ml algorithms, and we'll forecast the results based on the best algorithm.

**EXISTING SYSTEM:**

The existing personalized travel recommendation system based on social media activity and machine learning incorporates data collection from Twitter, leveraging machine learning classifiers to identify travel-related tweets and natural language processing for feature extraction. User profiles are built from historical travel-related activities, and temporal analysis is applied to discern peak times for travel-related interactions, with a time-sensitive recency weight system adapting to changing user interests. The recommendation algorithms, including collaborative filtering and content-based filtering, are optimized through hyperparameter tuning, and ensemble methods are employed for enhanced accuracy. The system features a user-friendly interface for interactions and feedback, with continuous real-time updates, robust security measures, and performance monitoring to ensure scalability and compliance with privacy regulations

**Disadvantages:**

• Low Accuracy.

• High time taking process

• No proper prediction.

• High cost.

**PROPOSED SYSTEM:**

Travel-related tweets are identified by a machine learning classifier. Personalised trip recommendations are then derived from the travel tweets. Our suggested model, in contrast to the majority of personalised recommendation systems, incorporates time-sensitive recency weight to account for a user's most recent interest. Here, we're using several Ml algorithms, and we'll forecast the results based on the best algorithm.

**Advantages:**

# High Accuracy.

# low time taking process.

# Good prediction.

# Cost efficient.

**HARDWARE & SOFTWARE REQUIREMENTS:**

**HARDWARE REQUIRMENTS:**

* processor :   intel i3(min)
* Hard Disk  :   40 GB.
* Floppy Drive :   1.44 Mb.

**SOFTWARE REQUIRMENTS:**

* Operating system : Windows 10 (min)
* Coding Language  : Python (3.7.0)