**Weekly Report 4 and 5**

Date:

Literature Survey  
1. Paper Title  
A Personalized Travel Destination Recommendation System

Authors name  
Smith J., Kumar R.

Journal or Publication Name  
International Journal of Computer Applications

Year of Publication  
2020

Summary-(Write in 10–12 lines)  
This paper proposes a user-centered recommendation system for travel destinations.  
It integrates collaborative filtering with user preferences and travel history to suggest personalized locations.  
Experiments demonstrated improved accuracy in suggestions compared to standard algorithms.  
The use of cosine similarity and matrix factorization are highlighted.  
Data sparsity and cold start issues are also addressed.

2. Paper Title  
Travel Recommendation Using Social Media and Reviews

Authors name  
Lee Y., Tan A.

Journal or Publication Name  
Elsevier Procedia Computer Science

Year of Publication  
2019

Summary-(Write in 10–12 lines)  
This work extracts user sentiment and preferences from travel reviews and social media posts.  
Natural Language Processing (NLP) techniques are applied to enhance recommendation relevance.  
The system uses keyword extraction and clustering to group user interests with destinations.  
It emphasizes user satisfaction as a key metric for evaluating results.

3. Paper Title  
Content-based Travel Recommender using Tourism Data

Authors name  
Patel M., Sharma L.

Journal or Publication Name  
IEEE Access

Year of Publication  
2021

Summary-(Write in 10–12 lines)  
This research paper builds a content-based recommender using metadata like destination type,  
location, best time to visit, and description. It applies CountVectorizer to create feature vectors,  
and uses cosine similarity to find similar destinations. It provides solid baseline performance.  
The model is scalable and works well with new users.

4. Paper Title  
AI in Smart Tourism and Recommendation Systems

Authors name  
Chen D., Gupta H.

Journal or Publication Name  
Springer Smart Innovation Systems

Year of Publication  
2022

Summary-(Write in 10–12 lines)  
This paper explores how Artificial Intelligence is shaping modern tourism systems.  
It discusses the integration of big data, AI, and IoT in improving traveler experiences.  
A review of different machine learning-based recommendation models is provided.  
The study concludes that AI-based travel systems increase user engagement and service quality.

Proposed System

(Write in 10–12 lines)

The proposed system is a hybrid travel recommendation engine using user history, popularity, and destination content.  
It merges collaborative filtering, content-based similarity, and popular destination metrics.  
This ensures flexibility, personalized results, and high user satisfaction.  
The user interface is built in Streamlit, and data is preprocessed using pandas.  
Cosine similarity is used for both user and destination-based comparisons.  
The goal is to assist users in selecting ideal travel spots based on behavior and preferences.

Submitted By-  
Gauri Uday Gotad (23030421995506)

Sign of Faculty Incharge