# SRI LANKA

# 

#### travel EXPERIENCE in Sri Lanka



# RECENTIPAS



## NOW AS RAISING NATION

## BUT NEED TECHNICALSOLUTION TO IMPROVE TO URISM INDUSTRY

# WANDERLK

#### Powered by CodeRecon

Discover Sri Lanka effortlessly with WanderLK. Plan your trip, find hidden gems, and immerse yourself in the island's culture and beauty. From accommodations to ancient places, WanderLK has everything you need at your fingertips.



Get Start

## FEATURES



Explore Sri Lanka



#### **Explore Hotels**



Personalized Recommendations

## FEATURES



Flight Bookings

Wander Chat & Tour Planning

Flights

I'm thinking about visiting Colombo and then Unawatuna

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WanderLK

Let me show you some of the best places to visit in Sri

Lanka

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 Image: Non-Intervised Requests

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WanderLK

🗠 Request Visa

Extend Visa

📱 Visa Request Status

Inquiries

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United Kingdom

Sri Lanka

Aug 28, 2024

## **CHALLENGES** WE HAVE TO OVERCOME



Research About Visa Process



Face Identification



#### **Data Security**

#### We decided to go with...



### FUTURE IMPROVEMENTS

- Personalized voice assistant and Real Time virtual tour guide.
- Handle payments for hotels and other services via platform.
- Ensuring Security, Availability and Fault Tolerance through cloud services.
- Letting travel guides advertise their travel packages.
- Giving the ability to have virtual tours with AR.

## **Recommends Best** Destinations For You With **Best Relativity High Diversity**

## How?

#### Considering

- Activities the you prefer
- Places that you hope to visit
- Importance of the location
- User recent Feedbacks Ratings

#### **Data Enrichment with GenAl**

**Places should more contextual** 

Enrich with Activities, Geographical, Historical, Religious, etc

#### **Be Careful with Prompt Engineering**

"You are an expert in Sri Lanka tourism. Your goal is to provide neutral and unbiased information about locations in Sri Lanka, focusing on geographical, historical, cultural, and natural aspects. Do not promote or demote any businesses, hotels, or restaurants. Don't mention location name or any information to identify the situated location in outputs. make the content short and generalized keywords"

#### Model Development

**1.Vectorization** 

2.Compute similarity between TF-IDF
3.Except Places with High negative feedback rate
4.Except the Places already Included
5.Sort By Similarity Score then Ratings

#### **Evaluation**

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from geopy.distance import great\_circle

coordinates\_of\_similar\_places = similar\_records[['lat', 'lng']]
coordinates\_of\_input\_places = input\_places[['lat', 'lng']]

all\_coordinates = pd.concat([coordinates\_of\_similar\_places, coordinates\_of\_input\_places], ignore\_index=True)

def geospatial\_diversity(locations):
 if len(locations) < 2:
 return 0.0</pre>

distances = []
for i in range(len(locations)):
 for j in range(i + 1, len(locations)):
 distance = great\_circle(locations[i], locations[j]).kilometers
 distances.append(distance)

return np.mean(distances) if distances else 0.0

all\_coordinates\_list = all\_coordinates.values.tolist()
diversity = geospatial\_diversity(all\_coordinates\_list)
print(f"Geospatial Diversity (Average Distance): {diversity:.2f}

#### .....

similar\_records\_infos = ''.join(similar\_records\_infos)
combined\_infos = ''.join(combined\_infos)

def cosine\_similarity\_score(str1, str2):
 if not str1 or not str2:
 return 0.0
 vectorizer = TfidfVectorizer()
 vectors = vectorizer.fit\_transform([str1, str2])
 return cosine\_similarity(vectors[0], vectors[1])[0][0]

similarity = cosine\_similarity\_score(similar\_records\_infos,

#### 90% - 60% Relevance 80+ Km Average Diversity

#### VR for WanderLK

The kumbuk plant is common in Sri Lanka and mainly grows on the banks of rivers.

Sera Ella is a waterfall located in Pothatawela village, a place near Laggala in the Matale District of Sri Lanka.



## **THANK YOU** Open for Questions