NAMED ENTITY RECOGNITION FOR TOURISM IN KERALA

Deception of the project:

- Tourism information is scattered around nowadays. To search for the information, it is usually time consuming to browse through the results from search engine, select and view the details.
- Named Entity Recognition (NER) is a method to search for a particular Named Entity from a file or an image, recognize it and classify it into specified Entity Classes like Name, Location, Organization, Numbers and Others Categories.
- The main aim of this project is to develop a Named Entity Recognition (NER) model that facilitates fast query processing, information retrieval and data preprocessing of Travel and Tourism Domain in Kerala.
- Obtain effective information and providing high quality services about tourism.

Algorithm:

In this project used algorithm is LSTM (Long Short Term Memory). Having a good hold over memorizing certain patterns LSTMs perform fairly better. So LSTM is good for text classification.

Hardware and Software:

This project uses Jupyter notebook to develop the model and flask server as the framework to connect the code of model and the UI. The backend is python and the server is a flask. UI is created using the HTML. Label Studio is an application used to label the text

Dataset:

In this project, the data consist of large number of text based on different tourist places and their locations, GPE and timing. The data is collected from different websites like TripAdvisor, keralatourism.org, Thrillophilia etc. The entities in the text are tourist places, location, GPE and timing. These entities are labeled using the application Label Studio.

Project current status:-

The data collection and development in the model code are goes on parallel. The UI design is done.