Low Level Design (LLD)

Restaurant Rating Prediction

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Contents

Document Version Control

Date	Version No.
1/2/23	1
5/2/23	2

Introduction

What is a low level design document?

The main goal of the LLD document is to give the internal logic design of actual code implementation and supply the outline of the machine learning model and its

implementation. Additionally, it provides the description of how our project will be designed end-to-end

Scope

Low-level design (LLD) is a component-level design process that follows a step-by-step refinement process. This process can be used for designing data structures, required software architecture, source code and ultimately, performance algorithms. Overall, the data organisation may be defined during requirement analysis and then refined during data design work

Architecture

Architecture Design

This project is designed to make an interface for the User to predict the rating of a restaurant given online_order, book_table, rate, votes, location, rest_type(restaurant type), cuisines, cost, menu_item

Data Collection

The data for this project is collected from the Kaggle Dataset, the URL for the dataset is https://www.kaggle.com/datasets/himanshupoddar/zomato-bangalore-restaurants?resource=download

Data Description

Bengaluru being one such city has more than 12,000 restaurants with restaurants serving dishes from all over the world. With each day new restaurants opening the industry hasn't been saturated yet and the demand is increasing day by day. The features which are used for analysing online_order, book_table, rate, votes, location, rest_type(restaurant type), cuisines, cost, menu_item

Importing data into database

Data Export from Database - The data in a stored database is exported as a CSV file(Zomato_df_komal.csv) to be used for Data Pre-processing and Model Training.

Deployment

The tested model is deployed locally on the computer

```
PS D:\code fun\web development> python app.py
 * Serving Flask app 'app'
 * Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
 * Running on http://127.0.0.1:5000
```

UNIT TEST CASES

- Verification of whether user is able to edit all input fields

  User is able to edit all input fields

- Verification of whether user gets Submit button to submit the inputs

  User gets Submit button to submit the inputs

- Verification of whether user is presented with recommended results on clicking submit

  User is presented with recommended results on clicking submit

- Verification of whether the recommended results are in accordance to the selections user made

  The recommended results are in accordance to the selections user made