Low Level Design (LLD)

**Restaurant Rating Prediction**

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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](https://github.com/komalreddy3/iNeuron/blob/main/Restaurant%20Rating%20Prediction/Deploying%20the%20model/Zomato_df_komal.csv)) to be used for Data Pre-processing and Model Training.

Deployment

The tested model is deployed locally on the computer



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