**Model Development Phase Template**

|  |  |
| --- | --- |
| Date | 18 June 2025 |
| Team ID | SWTID1749631993 |
| Project Title | Restaurant Recommendation System |
| Maximum Marks | 5 Marks |

**Feature Selection Report Template**

In the forthcoming update, each feature will be accompanied by a brief description. Users will indicate whether it's selected or not, providing reasoning for their decision. This process will streamline decision-making and enhance transparency in feature selection.

|  |  |  |  |
| --- | --- | --- | --- |
| **Feature** | **Description** | **Selected (Yes/No)** | **Reasoning** |
| url | url of the restaurant on the Zomato website | No | It does not provide any useful semantic or numerical information for machine learning. |
| Address | address of the restaurant in Bengaluru | Yes | Helps identify the specific branch of a restaurant and can assist in location-based filtering. |
| Name | name of the restaurant | Yes | Key identifier used to fetch restaurant details and generate recommendations based on input. |
| Online\_order | online ordering is available in the restaurant or not | Yes | Useful for filtering or recommending restaurants that support online ordering. |
| Book\_table | table book option available or not | Yes | Helps recommend places that allow table booking — important for user convenience. |
| Rate | overall rating of the restaurant out of 5 | Yes |  |
| Votes | total number of rating for the restaurant as of the above-mentioned date | Yes | Indicates popularity — high vote count can signify credibility and user trust. |
| Phone | phone number of the restaurant | No | It’s not relevant to how similar restaurants are determined. |
| Location | neighbourhood in which the restaurant is located | Yes | Supports personalized, nearby recommendations based on the user's geographical area. |
| Rest\_type | restaurant type | Yes | Categorizes restaurants (e.g., cafe, buffet, casual dining); useful for user preference matching. |
| Dish\_liked | dishes people liked in the restaurant | No | It usually has highly unstructured data and is hard to clean it. |
| Cuisines | food styles, separated by comma | Yes | helps identify similarity between restaurants. |
| Approx\_cost (for two people) | approximate cost for a meal for two people | Yes | Allows cost-based filtering; users often look for restaurants within budget. |
| Reviews\_list | list of tuples containing reviews for the restaurant, each tuple | Yes | Text data used with TF-IDF to understand customer sentiment and match similar experiences. |
| Menu\_item | contains a list of menus available in the restaurant | Yes | if users are searching for specific dishes or cuisines. |
| Listed\_in(type) | type of meal | Yes | Indicates service type (e.g., delivery, dine-out); helps align with user intent. |
| Listed\_in(city) | contains the neighbourhood in which the restaurant is listed. | Yes | |  | | --- | |  |  |  | | --- | | Important for filtering or recommending restaurants within the user’s city or locality. | |