



# Restaurant Recommender

## ARTIFICIAL INTELLIGENCE

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## ABSTRACT

Our model will assist users in finding their favorite dishes. The model will ask the users what ingredients they remember from their favorite dishes, and will find the cuisine that contains the kinds of ingredients the user wants. It will then recommend the restaurants with that kind of cuisine to the user. If the user wishes to provide their location/city, the model will attempt to find the restaurants within their country. If the user wishes to specify a budget, the model will rank the information on the basis of lowest to highest costs. If the user wishes to be redirected to their online delivery or reservation system, the model will link those as well. Additionally, it will present the information on the basis of restaurant ratings.

## METHODOLOGY

We aim to clean the data from the Zomato csv further by matching relevant cuisines and eliminating non-relevant cuisines. Then we will train our model using the recipe ingredients provided by the user and afterwards create an interactive UI that will allow sorting and filtering (to some extent) for our user, and allow filling in of certain data fields to help find more relevant data for their desired restaurant.

## DATASET

- <https://www.kaggle.com/datasets/kaggle/recipe-ingredients-dataset>
- <https://www.kaggle.com/datasets/shrutihehta/zomato-restaurants-data>

## FEATURES

- Matches given user requirements for their desired dish
- Recommends restaurants to user based on their given requirements
- Considers location of user prior to recommendation if given as input
- Considers budget of user prior to recommendation if given as input
- Ranks the output on the basis of restaurant rating
- Links the reservation system or online delivery of the restaurant the user chooses