

**JECRC University, Jaipur**

**School of Computer Science**

A Synopsys of

Minor Project on

# Predicting Restaurant Food Cost

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| **Guided by:** | **Submitted by:** |
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| Mrs. Shruti Mathur | Piyush Kumar (16BCON546) |
|  |  |
|  | Vidhan Arora (16BCON134)  Vibhooti Agrawal (16BCON183)  Arun Atri (16BCON178) |

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**Objective**

Our main objective in this project is to develop a Machine Learning model that will be predicting the cost of the food served by the restaurants across different cities in India and to investigate the factors that really affect the cost.

**Introduction**

This project is aimed at developing a a Machine Learning model that will be predicting the cost of the food served by the restaurants across different cities in India and to investigate the factors that really affect the cost.

This model will predict the prices of food with respect of various features provided to the model like locality, rating, votes etc.

Python Module Scikit Learn is used to develop this project. This module contains various Machine Learning Algorithm modules.

**Project Requirements**

**Hardware Requirements:**

* Windows XP or above OR Mac-OS X 10.5.8 or above
* RAM - 2 GB or above
* Hard Disk - 500 GB
* Processor – Pentium 4 or above

**Software Requirements:**

* Text Editor – Sublime/Brackets/Notepad++ etc.
* Anaconda Navigator
* Python 3.5+
* sklearn modules
* MS-Excel
* Active Internet Connection

**Similar Systems**

Some of the similar price predictor models are Stock Price Predictor, House Price Predictor etc.

**Project Structure**

Size of training set: 12,690 records

Size of test set: 4,231 records

#### FEATURES:

TITLE: The feature of the restaurant which can help identify what and for whom it is suitable for.

RESTAURANT\_ID: A unique ID for each restaurant.

CUISINES: The variety of cuisines that the restaurant offers.

TIME: The open hours of the restaurant.

CITY: The city in which the restaurant is located.

LOCALITY: The locality of the restaurant.

RATING: The average rating of the restaurant by customers.

VOTES: The overall votes received by the restaurant.

COST: The average cost of a two-person meal.

**Conclusion**

Restaurant Food Price Predictor is a solution for one factor that make us reconsider having our favourite food from our favourite restaurant, the cost using Python and Machine Learning Algorithm. Hence, real world problem solved using programming and Mathematics concepts.

**Bibliography**

* <https://scikit-learn.org/>
* <https://www.python.org/>