

Name: Real Estate Price Prediction Flask Deployment

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Internship Batch: LISUM14

Version:1.0

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Storage location: <https://github.com/KushalSamani/Flask-Deployment>

Deployment:

The data set selected is the data for Real Estate Prices in Bangalore. A machine learning model using Linear regression was developed and saved using pickle.

Two files have been created for Flask deployment. The main file, 'server.py' and the secondary file, 'util.py.'

Util.py:

This file contains the methods used in our primary file. The primary objective is to define ways to give us all the location names automatically.

The first is the primary method, where we estimate prices based on location, sq. ft, bath, and bhk. Firstly, a NumPy array (x) consisting of zeros was constructed. After that, the indexes of the array x were changed to sq. ft, bath, and bhk.

Another method is named Load saved artifacts, which is a method to load all the location names we have in our data set.

Finally, the methods 'Get Location Names' and 'Get data columns' were defined.

These methods help in the file Server.py

Server.py:

The first method is to get the location names, which uses the method 'Get Location Names' from the file util.py on route "/get_location_names." This is a GET method. Hence this method will get all the location names in the form of a list on our final website.

The following method predicts the home price based on four factors: sq. ft, location, bath, and bhk. The method used here is GET and POST, and the route is '/predict_home_price.' On supplying the parameters/factors mentioned above, this method predicts the home price based on our model and sends the results back to us. The method uses the get_estimated_price method from the file util.py

Finally, the command (if __name__ == "__main__") is run.