**Main.py**

from flask import Flask, render\_template, request, jsonify

import pandas as pd

import pickle

import numpy as np

app = Flask(\_\_name\_\_,template\_folder='template')

@app.route('/')

def index():

data = pd.read\_csv('C:/Users/HP/PycharmProjects/AA/venv/cleaned\_data.csv')

# print(Hello World)

locations = sorted(data['location'])

# print(locations)

return render\_template('index.html', locations=locations)

@app.route('/predict', methods=['POST'])

def predict():

# pipe = pickle.load(open("RidgeModel.pkl", "rb"))

data = request.json

print('Python Coming')

location = data['location']

# print(location)

bhk = data['bhk']

# print(bhk)

bath = data['bath']

# print(bath)

total\_sqft = data['total\_sqft']

# print(total\_sqft)

data = pd.read\_csv('C:/Users/HP/PycharmProjects/AA/venv/cleaned\_data.csv')

#columns location, bath, bhk, area\_type, availability, society

# response = data.loc['location: location', 'bhk': bhk]

locationData = data[(data['location'] == location) & (data['bhk'] == int(bhk)) & (data['bath'] == int(bath)) & (data['total\_sqft'] == float(total\_sqft))]

print(locationData)

locationCount = len(locationData)

if locationCount > 0:

price = locationData['price']

# print(price);

return str(price)

else:

return 'No Price Matching Found'

if \_\_name\_\_=="\_\_main\_\_":

app.run(debug=True, port=5001)

**index.html**

<html lang="en">

<head>

<!-- Required meta tags -->

<meta charset="utf-8">

<meta name="viewport" content="width=device-width, initial-scale=1">

<!-- Bootstrap CSS -->

<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/css/bootstrap.min.css" integrity="sha384-KyZXEAg3QhqLMpG8r+8fhAXLRk2vvoC2f3B09zVXn8CA5QIVfZOJ3BCsw2P0p/We" crossorigin="anonymous">

<title>House Price Prediction</title>

</head>

<body class="bg-dark">

<div class="container">

<div class="row">

<div class="card" style="width: 100%; height: 100%; margin-top: 50px">

<div class="card-header" style="text-align: center">

<h1>Welcome to House Price Predictor</h1>

</div>

<div class="card-body">

<form method="post" action="" accept-charset="utf-8">

<div class="row">

<div class="col-md-6 form-group" style="text-align: center">

<label><b> Select the Location:</b></label>

<select class ="selectpicker form-control" id="Location" name="Location" required="1" >

{% for location in locations %}

<option value='{{ location }}'>{{ location }}</option>

{% endfor %}

</select>

</div>

<div class="col-md-6 form-group" style="text-align: center">

<label><b> Enter BHK:</b></label>

<input type="text" class="form-control" id="bhk" name="bhk" placeholder="Enter BHK">

</div>

<div class="col-md-6 form-group" style="text-align: center">

<label><b> Enter Number of Bathrooms:</b></label>

<input type="text" class="form-control" id="bath" name="bath" placeholder="Enter Number of Bathrooms ">

</div>

<div class="col-md-6 form-group" style="text-align: center">

<label><b> Enter Square Feet :</b></label>

<input type="text" class="form-control" id="total\_sqft" name="total\_sqft" placeholder="Enter Square Feet ">

</div>

<div class="col-md-22 form-group" >

<button type="button" class="btn btn-primary form-control" onclick="send\_data()">Predict Price</button>

</div>

</div>

</form>

<br>

<div class="col-md-12" style="text-align: center">

<h3><span id="prediction"></span></h3>

</div>

</div>

</div>

</div>

</div>

<script>

function send\_data(){

document.getElementById("prediction").innerHTML = "Wait Predicting Price!...";

var fd = new FormData(document.querySelector('form'));

console.log('fd--->',fd);

var location = document.getElementById('Location').value;

var bhk = document.getElementById('bhk').value;

var bath = document.getElementById('bath').value;

var total\_sqft= document.getElementById('total\_sqft').value;

var formData = {

location, bhk, bath, total\_sqft

};

console.log('formData--->', formData);

var xhr= new XMLHttpRequest();

var xhr = new XMLHttpRequest();

xhr.onreadystatechange = function() {

if (xhr.readyState == XMLHttpRequest.DONE) {

console.log(xhr.responseText);

if(String(xhr.responseText).trim() != 'No Price Matching Found') {

var lines = xhr.responseText.split('\n');

console.log('lines', lines);

if(lines && lines[0]) {

var response = lines[0].replace(/\s\s+/g, ' ');

var response = response.split(" ");

if(response && response[1]) {

document.getElementById("prediction").innerHTML = response[1];

} else {

document.getElementById("prediction").innerHTML = 'No Price Matching Found';

}

}

}

}

}

xhr.open("POST", '/predict', true);

xhr.setRequestHeader('Content-Type', 'application/json');

xhr.send(JSON.stringify(formData));

}

</script>

<!-- Option 2: Separate Popper and Bootstrap JS -->

<!--

<script src="https://cdn.jsdelivr.net/npm/@popperjs/core@2.9.3/dist/umd/popper.min.js" integrity="sha384-eMNCOe7tC1doHpGoWe/6oMVemdAVTMs2xqW4mwXrXsW0L84Iytr2wi5v2QjrP/xp" crossorigin="anonymous"></script>

<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.0/dist/js/bootstrap.min.js" integrity="sha384-cn7l7gDp0eyniUwwAZgrzD06kc/tftFf19TOAs2zVinnD/C7E91j9yyk5//jjpt/" crossorigin="anonymous"></script>

</body>

</html>