

Predict House Price

Predict

House price should be \$ 115144316.36



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9/5/2023

Predict House Price

50000

6

5

Predict

House price should be \$ 7401679.69



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Predict House Price

Predict

House price should be \$ 7401679.69



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Predict House Price

3200

4

2

Predict

House price should be \$ 115140418.63



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Predict House Price

Predict



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C:\Windows\System32\cmd.e

```
Microsoft Windows [Version 10.0.22621.2134]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Owner\.spyder-py3\flaska>python app.py
C:\Users\Owner\AppData\Local\Programs\Python\Python311\Lib\site-packages\sklearn\base.py:347: InconsistentVersionWarning
: Trying to unpickle estimator LinearRegression from version 0.22.1 when using version 1.3.0. This might lead to broken
g code or invalid results. Use at your own risk. For more info please refer to:
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
warnings.warn(
* Serving Flask app 'app'
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
* Restarting with stat
C:\Users\Owner\AppData\Local\Programs\Python\Python311\Lib\site-packages\sklearn\base.py:347: InconsistentVersionWarning
: Trying to unpickle estimator LinearRegression from version 0.22.1 when using version 1.3.0. This might lead to broken
g code or invalid results. Use at your own risk. For more info please refer to:
https://scikit-learn.org/stable/model_persistence.html#security-maintainability-limitations
warnings.warn(
* Debugger is active!
* Debugger PIN: 315-365-801
```

Search flaska

Date modified	Type
5/2023 5:25 PM	File folder
5/2023 5:20 PM	File folder
5/2023 4:58 PM	PY File
5/2023 4:42 PM	Microsoft Exc
5/2023 3:38 PM	PKL File
5/2023 5:24 PM	PY File
5/2023 4:00 PM	Microsoft Exc

This PC

Local Disk (C:)

7 items 1 item selected

```
32 {{ prediction_text }}
33
34 </div>
35 
36
```

Ln 35, Col 77 Spaces: 2 UTF-8 LF HTML

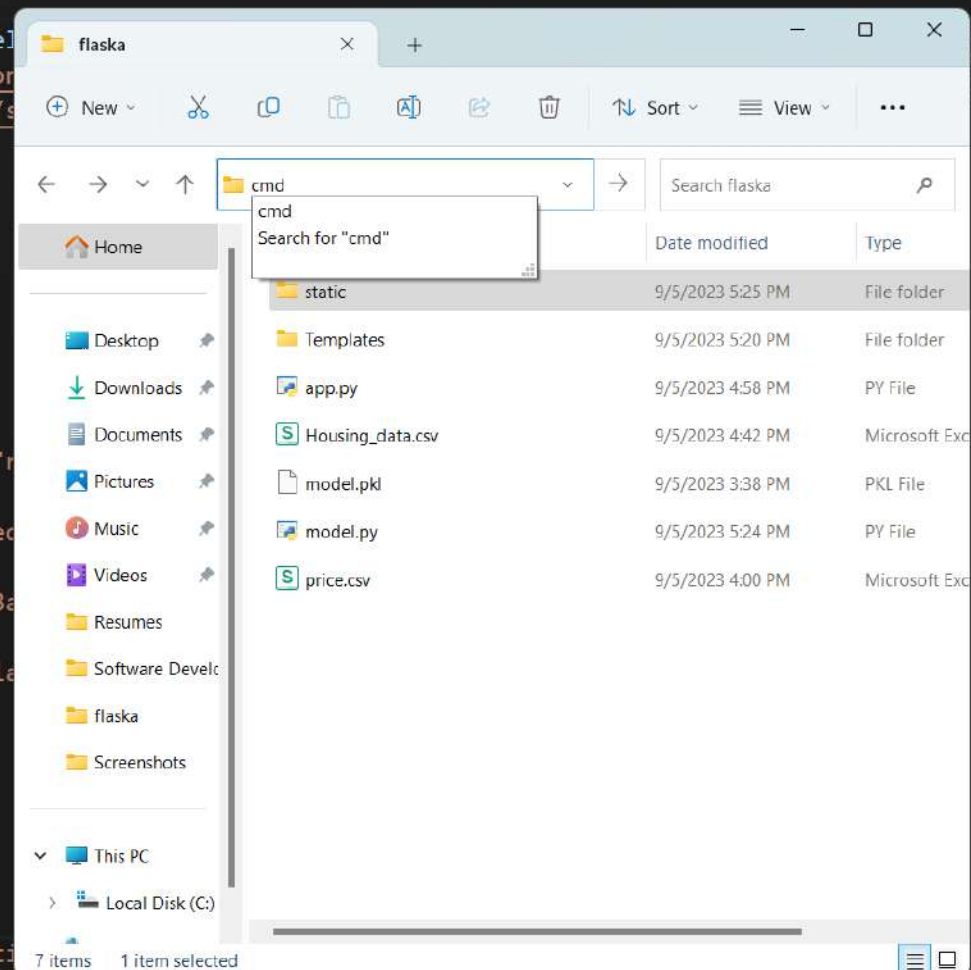
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Search

5:27 PM 9/5/2023


```
index.html X
C:\Users\Owner>.spyder-py3>flaska>Templates>index.html>html>body>img

9  <link href='https://fonts.googleapis.com/css?family=Hind:300' rel='stylesheet' type='text/css'>
10 <link href='https://fonts.googleapis.com/css?family=Open+Sans:400,600' rel='stylesheet' type='text/css'>
11 <link rel="stylesheet" href="{{ url_for('static', filename='css/style.css') }}">
12
13 </head>
14
15 <body>
16   <div class="login">
17     <h1>Predict House Price</h1>
18
19     <!-- Main Input For Receiving Query to our ML -->
20     <form action="{{ url_for('predict') }}" method="post">
21       <input type="text" name="area" placeholder="Area" required="">
22
23       <input type="text" name="bedrooms" placeholder="Number of Bedrooms" required="">
24
25       <input type="text" name="bathrooms" placeholder="Number of Bathrooms" required="">
26
27       <button type="submit" class="btn btn-primary btn-block btn-lg">Predict Price</button>
28     </form>
29
30     <br>
31     <br>
32     {{ prediction_text }}
33
34   </div>
35   
```



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index.html X

C:\Users\Owner>.spyder-py3>flaska>Templates>index.html>html>body>img

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9 <link href='https://fonts.googleapis.com/css?family=Hind:300' rel='stylesheet' type='text/css'>
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22
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24
25 <input type="text" name="bathrooms" placeholder="Number of Bathrooms" required="required" />
26
27 <button type="submit" class="btn btn-primary btn-block btn-large">Predict</button>
28 </form>
29
30 <br>
31 <br>
32 {{ prediction_text }}
33
34 </div>
35 
```

Ln 35, Col 77 Spaces: 2 UTF-8 LF HTML

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Spyder (Python 3.11)

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C:\Users\Owner\spyder-py3\flask\app.py

firstCode.py X app.py X model.py* X

```
1 import numpy as np
2 from flask import Flask, request, render_template
3 import pickle
4
5 app = Flask(__name__)
6 model = pickle.load(open('model.pkl', 'rb'))
7
8 @app.route('/')
9 def home():
10     return render_template('index.html', template_folder='Templates')
11
12 @app.route('/predict', methods=['POST'])
13 def predict():
14     '''
15     For rendering results on HTML GUI
16     '''
17     int_features = [int(x) for x in request.form.values()]
18     final_features = [np.array(int_features)]
19     prediction = model.predict(final_features)
20
21     output = round(prediction[0], 2)
22
23     return render_template('index.html', prediction_text='House price should be $ {}'.format(output))
24
25 if __name__ == "__main__":
26     app.run(debug=True)
```

Source Console Object

Usage

Here you can get help of any object by pressing **Ctrl+H** in front of it, either on the Editor or the Console.

Help can also be shown automatically after writing a left parenthesis next to an object. You can activate this behavior in [Preferences > Help](#).

New to Spyder? Read our [tutorial](#)

Help Variable Explorer Plots Files

Console 1/A X

Python 3.11.3 | packaged by Anaconda, Inc. |
(main, Apr 19 2023, 23:46:34) [MSC v.1916 64 bit
(AMD64)]
Type "copyright", "credits" or "license" for more
information.

IPython 8.12.0 -- An enhanced Interactive Python.

In [1]:

IPython Console History

conda: base (Python 3.11.3) Completions: conda(base) LSP: Python Line 10, Col 42 ASCII LF RW Mem 44%

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Paste

Clipboard

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Font

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Justify

Wrap Text

Merge & Center

Alignment

General

\$ % , ' /

Number

Conditional Formatting

Format as Table

Cell Styles

Styles

Insert

Delete

Format

Cells

AutoSum

Fill

Clear

Editing

Sort & Filter

Find & Select

Analysis

Add-ins

A1

price

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
1	price	area	bedrooms	bathroom	parking	mainroad	guestroom	basement	hotwater	airconditic	prefarea	furnishingstatus											
2	13300000	7420	4	2	2	yes	no	no	no	yes	yes	furnished											
3	12250000	8960	4	4	3	yes	no	no	no	yes	no	furnished											
4	12250000	9960	3	2	2	yes	no	yes	no	no	yes	semi-furnished											
5	12215000	7500	4	2	3	yes	no	yes	no	yes	yes	furnished											
6	11410000	7420	4	1	2	yes	yes	yes	no	yes	no	furnished											
7	10850000	7500	3	3	2	yes	no	yes	no	yes	yes	semi-furnished											
8	10150000	8580	4	3	2	yes	no	no	no	yes	yes	semi-furnished											
9	10150000	16200	5	3	0	yes	no	no	no	no	no	unfurnished											
10	9870000	8100	4	1	2	yes	yes	yes	no	yes	yes	furnished											
11	9800000	5750	3	2	1	yes	yes	no	no	yes	yes	unfurnished											
12	9800000	13200	3	1	2	yes	no	yes	no	yes	yes	furnished											
13	9681000	6000	4	3	2	yes	yes	yes	yes	no	no	semi-furnished											
14	9310000	6550	4	2	1	yes	no	no	no	yes	yes	semi-furnished											
15	9240000	3500	4	2	2	yes	no	no	yes	no	no	furnished											
16	9240000	7800	3	2	0	yes	no	no	no	no	yes	semi-furnished											
17	9100000	6000	4	1	2	yes	no	yes	no	no	no	semi-furnished											
18	9100000	6600	4	2	1	yes	yes	yes	no	yes	yes	unfurnished											
19	8960000	8500	3	2	2	yes	no	no	no	yes	no	furnished											
20	8890000	4600	3	2	2	yes	yes	no	no	yes	no	furnished											
21	8855000	6420	3	2	1	yes	no	no	no	yes	yes	semi-furnished											
22	8750000	4320	3	1	2	yes	no	yes	yes	no	no	semi-furnished											
23	8680000	7155	3	2	2	yes	yes	yes	no	yes	no	unfurnished											
24	8645000	8050	3	1	1	yes	yes	yes	no	yes	no	furnished											
25	8645000	4560	3	2	1	yes	yes	yes	no	yes	no	furnished											
26	8575000	8800	3	2	2	yes	no	no	no	yes	no	furnished											
27	8540000	6540	4	2	2	yes	yes	yes	no	yes	yes	furnished											
28	8460000	6000	3	2	0	yes	no	no	no	no	no	semi-furnished											

Spyder (Python 3.11)

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C:\Users\Owner\spyder-py3\flaska\model.py

firstCode.py X app.py X model.py* X

```
1 # Importing the libraries
2 import pandas as pd
3 import pickle
4
5 dataset = pd.read_csv('housing_data.csv')
6
7 X = dataset.iloc[:,1:3] #area,bedrooms, bathrooms columns
8
9
10
11 y = dataset.iloc[:, 0] #price column
12
13 from sklearn.linear_model import LinearRegression
14 regressor = LinearRegression()
15
16 #Fitting model with trainig data
17 regressor.fit(X, y)
18
19 # Saving model to disk
20 pickle.dump(regressor, open('model.pkl','wb'))
21
22 # Loading model to compare the results
23 model = pickle.load(open('model.pkl','rb'))
24 print(model.predict([[2, 2200, 5]]))
```

Source Console Object

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In [1]:

IPython Console History

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