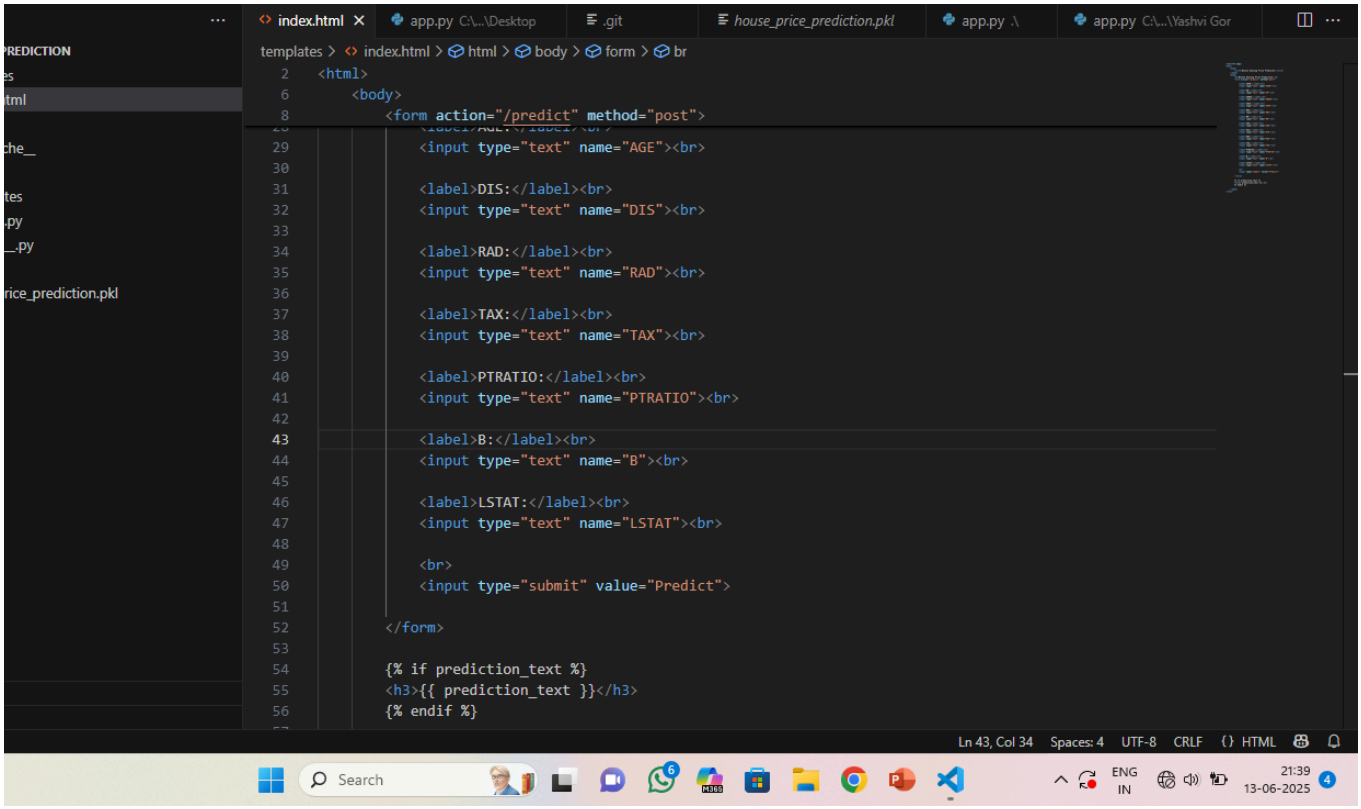
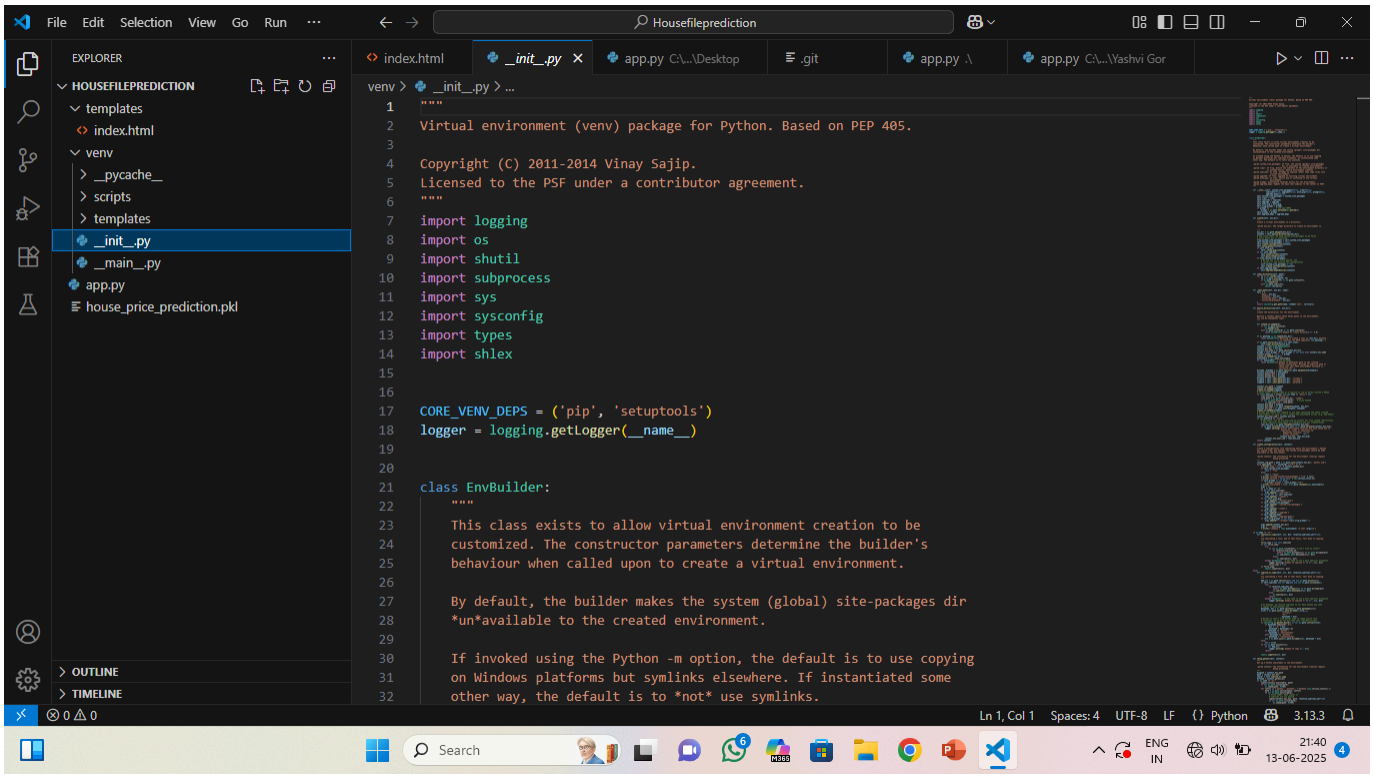
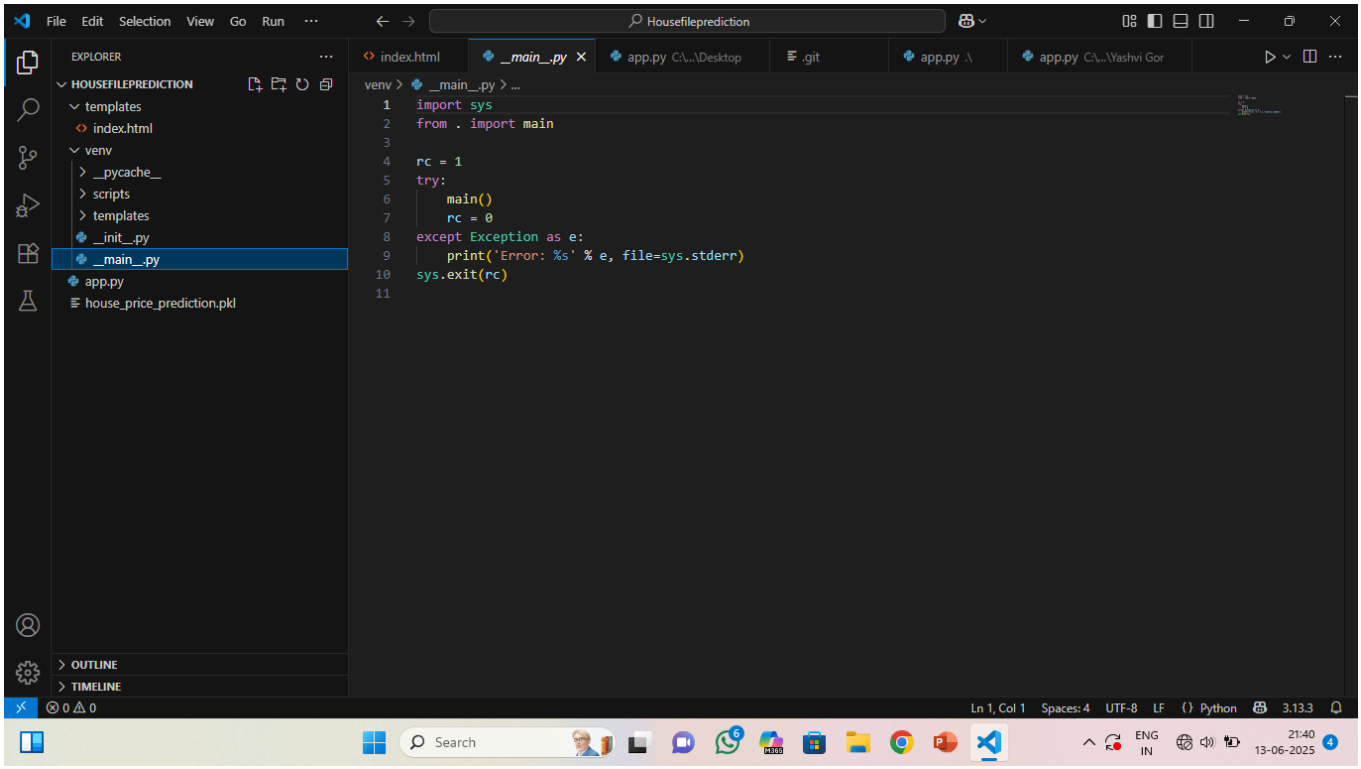
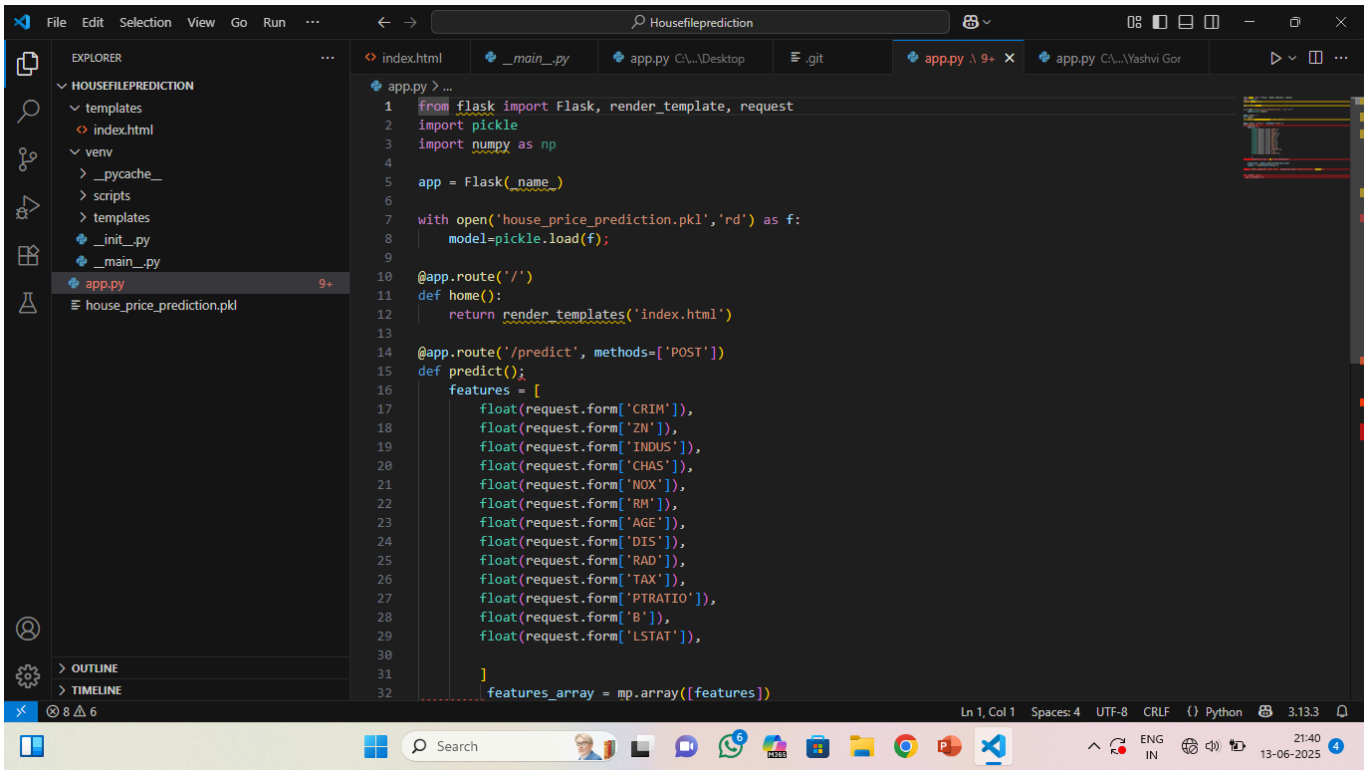
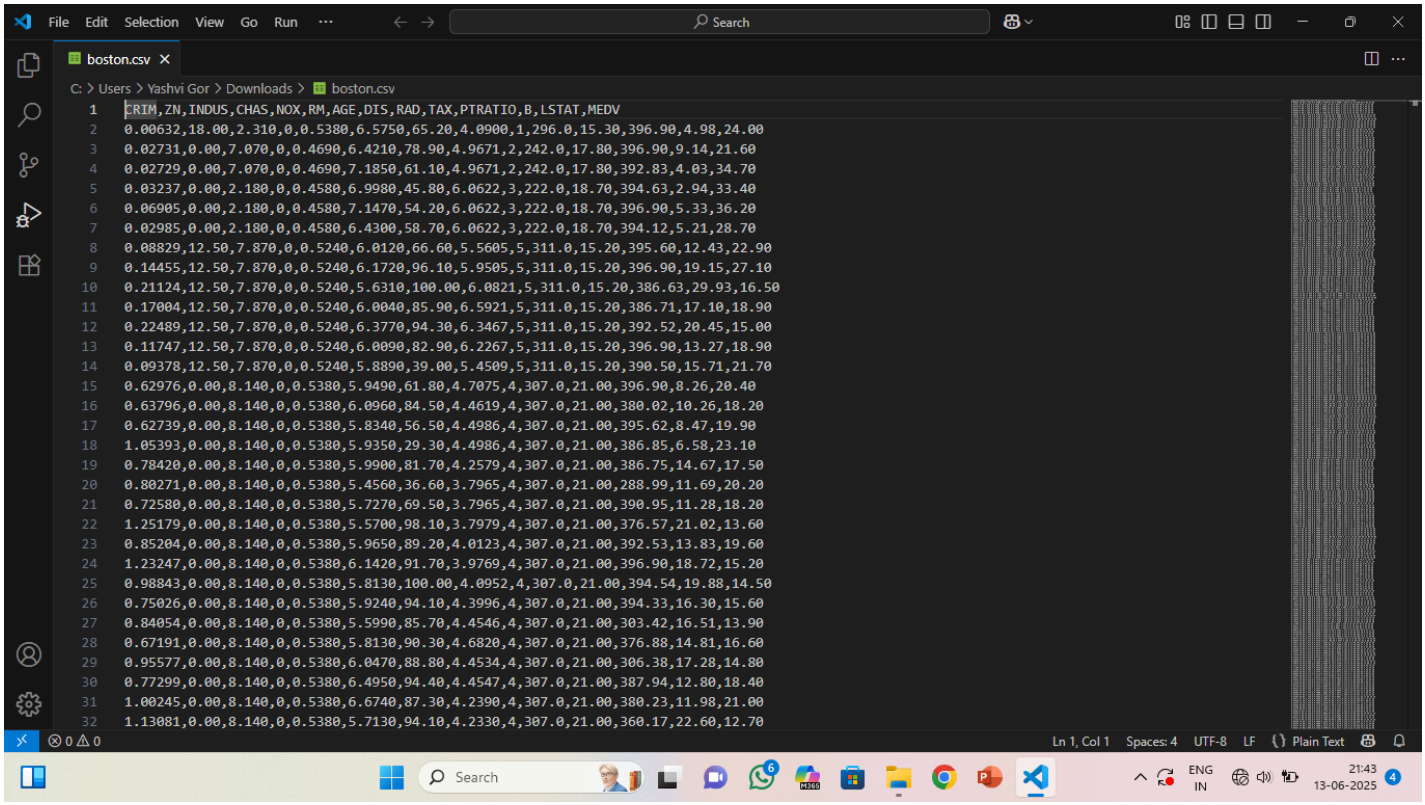

index.html
templates > index.html > html > body > form > br
<input type="text" name="AGE">
<label>DIS:</label>
<input type="text" name="DIS">
<label>RAD:</label>
<input type="text" name="RAD">
<label>TAX:</label>
<input type="text" name="TAX">
<label>PTRATIO:</label>
<input type="text" name="PTRATIO">
<label>B:</label>
<input type="text" name="B">
<label>LSTAT:</label>
<input type="text" name="LSTAT">

<input type="submit" value="Predict">
</form>
{% if prediction_text %}
<h3>{{ prediction_text }}</h3>
{% endif %}
Ln 43, Col 34 Spaces: 4 UTF-8 CRLF HTML
Search
ENG IN
21:39
13-06-2025


File Edit Selection View Go Run
Housefileprediction
EXPLORER
HOUSEFILEPREDICTION
templates
index.html
venv
__pycache__
scripts
templates
__init__.py
__main__.py
app.py
house_price_prediction.pkl
OUTLINE
TIMELINE
index.html
__init__.py
app.py C:\...\Desktop
.git
app.py .\
app.py C:\...\Yashvi Gor
venv > __init__.py > ...
"""
Virtual environment (venv) package for Python. Based on PEP 405.
Copyright (C) 2011-2014 Vinay Sajip.
Licensed to the PSF under a contributor agreement.
"""
import logging
import os
import shutil
import subprocess
import sys
import sysconfig
import types
import shlex
CORE_VENV_DEPS = ('pip', 'setuptools')
logger = logging.getLogger(__name__)
class EnvBuilder:
"""
This class exists to allow virtual environment creation to be
customized. The constructor parameters determine the builder's
behaviour when called upon to create a virtual environment.
By default, the builder makes the system (global) site-packages dir
*un*available to the created environment.
If invoked using the Python -m option, the default is to use copying
on Windows platforms but symlinks elsewhere. If instantiated some
other way, the default is to *not* use symlinks.
Ln 1, Col 1 Spaces: 4 UTF-8 LF Python 3.13.3
Search
ENG IN
21:40
13-06-2025


File Edit Selection View Go Run
Housefileprediction
EXPLORER
HOUSEFILEPREDICTION
templates
index.html
venv
__pycache__
scripts
templates
__init__.py
__main__.py
app.py
house_price_prediction.pkl
index.html
__main__.py
app.py C:\...\Desktop
.git
app.py .\
app.py C:\...\Yashvi Gor
venv > __main__.py > ...
import sys
from . import main
rc = 1
try:
main()
rc = 0
except Exception as e:
print('Error: %s' % e, file=sys.stderr)
sys.exit(rc)
OUTLINE
TIMELINE
Ln 1, Col 1 Spaces: 4 UTF-8 LF Python 3.13.3
Search
ENG IN
21:40 13-06-2025

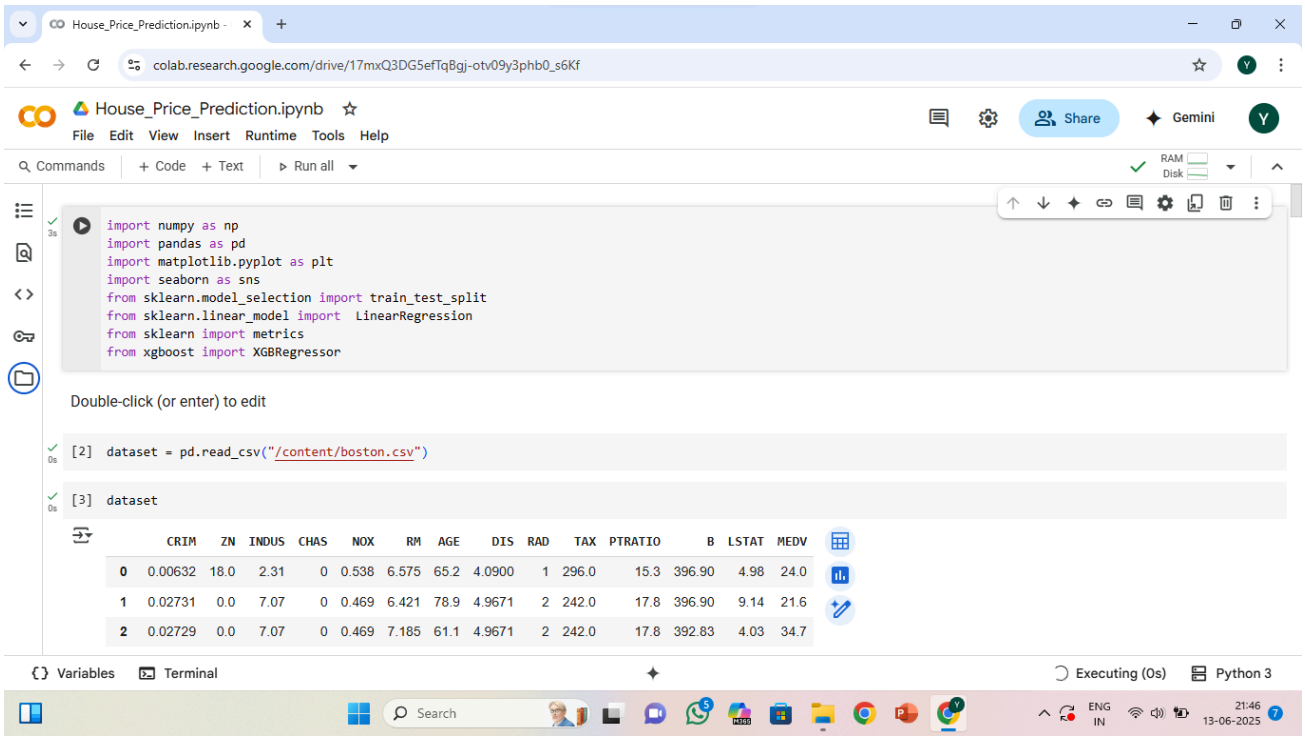

File Edit Selection View Go Run
Housefileprediction
EXPLORER
HOUSEFILEPREDICTION
templates
index.html
venv
__pycache__
scripts
templates
__init__.py
__main__.py
app.py 9+
house_price_prediction.pkl
index.html
__main__.py
app.py C:\...\Desktop
.git
app.py \ 9+
app.py C:\...\Yashvi Gor
app.py > ...
from flask import Flask, render_template, request
import pickle
import numpy as np
app = Flask(_name_)
with open('house_price_prediction.pkl','rd') as f:
model=pickle.load(f);
@app.route('/')
def home():
return render_templates('index.html')
@app.route('/predict', methods=['POST'])
def predict();
features = [
float(request.form['CRIM']),
float(request.form['ZN']),
float(request.form['INDUS']),
float(request.form['CHAS']),
float(request.form['NOX']),
float(request.form['RM']),
float(request.form['AGE']),
float(request.form['DIS']),
float(request.form['RAD']),
float(request.form['TAX']),
float(request.form['PTRATIO']),
float(request.form['B']),
float(request.form['LSTAT']),
]
features_array = np.array([features])
OUTLINE
TIMELINE
Ln 1, Col 1 Spaces: 4 UTF-8 CRLF Python 3.13.3
Search
ENG IN
21:40 13-06-2025



boston.csv

C: > Users > Yashvi Gor > Downloads > boston.csv

```
CRIM,ZN,INDUS,CHAS,NOX,RM,AGE,DIS,RAD,TAX,PTRATIO,B,LSTAT,MEDV
0.00632,18.00,2.310,0,0.5380,6.5750,65.20,4.0900,1,296.0,15.30,396.90,4.98,24.00
0.02731,0.00,7.070,0,0.4690,6.4210,78.90,4.9671,2,242.0,17.80,396.90,9.14,21.60
0.02729,0.00,7.070,0,0.4690,7.1850,61.10,4.9671,2,242.0,17.80,392.83,4.03,34.70
0.03237,0.00,2.180,0,0.4580,6.9980,45.80,6.0622,3,222.0,18.70,394.63,2.94,33.40
0.06905,0.00,2.180,0,0.4580,7.1470,54.20,6.0622,3,222.0,18.70,396.90,5.33,36.20
0.02985,0.00,2.180,0,0.4580,6.4300,58.70,6.0622,3,222.0,18.70,394.12,5.21,28.70
0.08829,12.50,7.870,0,0.5240,6.0120,66.60,5.5605,5,311.0,15.20,395.60,12.43,22.90
0.14455,12.50,7.870,0,0.5240,6.1720,96.10,5.9505,5,311.0,15.20,396.90,19.15,27.10
0.21124,12.50,7.870,0,0.5240,5.6310,100.00,6.0821,5,311.0,15.20,386.63,29.93,16.50
0.17004,12.50,7.870,0,0.5240,6.0040,85.90,6.5921,5,311.0,15.20,386.71,17.10,18.90
0.22489,12.50,7.870,0,0.5240,6.3770,94.30,6.3467,5,311.0,15.20,392.52,20.45,15.00
0.11747,12.50,7.870,0,0.5240,6.0090,82.90,6.2267,5,311.0,15.20,396.90,13.27,18.90
0.09378,12.50,7.870,0,0.5240,5.8890,39.00,5.4509,5,311.0,15.20,390.50,15.71,21.70
0.62976,0.00,8.140,0,0.5380,5.9490,61.80,4.7075,4,307.0,21.00,396.90,8.26,20.40
0.63796,0.00,8.140,0,0.5380,6.0960,84.50,4.4619,4,307.0,21.00,380.02,10.26,18.20
0.62739,0.00,8.140,0,0.5380,5.8340,56.50,4.4986,4,307.0,21.00,395.62,8.47,19.90
1.05393,0.00,8.140,0,0.5380,5.9350,29.30,4.4986,4,307.0,21.00,386.85,6.58,23.10
0.78420,0.00,8.140,0,0.5380,5.9900,81.70,4.2579,4,307.0,21.00,386.75,14.67,17.50
0.80271,0.00,8.140,0,0.5380,5.4560,36.60,3.7965,4,307.0,21.00,288.99,11.69,20.20
0.72580,0.00,8.140,0,0.5380,5.7270,69.50,3.7965,4,307.0,21.00,390.95,11.28,18.20
1.25179,0.00,8.140,0,0.5380,5.5700,98.10,3.7979,4,307.0,21.00,376.57,21.02,13.60
0.85204,0.00,8.140,0,0.5380,5.9650,89.20,4.0123,4,307.0,21.00,392.53,13.83,19.60
1.23247,0.00,8.140,0,0.5380,6.1420,91.70,3.9769,4,307.0,21.00,396.90,18.72,15.20
0.98843,0.00,8.140,0,0.5380,5.8130,100.00,4.0952,4,307.0,21.00,394.54,19.88,14.50
0.75026,0.00,8.140,0,0.5380,5.9240,94.10,4.3996,4,307.0,21.00,394.33,16.30,15.60
0.84054,0.00,8.140,0,0.5380,5.5990,85.70,4.4546,4,307.0,21.00,303.42,16.51,13.90
0.67191,0.00,8.140,0,0.5380,5.8130,90.30,4.6820,4,307.0,21.00,376.88,14.81,16.60
0.95577,0.00,8.140,0,0.5380,6.0470,88.80,4.4534,4,307.0,21.00,306.38,17.28,14.80
0.77299,0.00,8.140,0,0.5380,6.4950,94.40,4.4547,4,307.0,21.00,387.94,12.80,18.40
1.00245,0.00,8.140,0,0.5380,6.6740,87.30,4.2390,4,307.0,21.00,380.23,11.98,21.00
1.13081,0.00,8.140,0,0.5380,5.7130,94.10,4.2330,4,307.0,21.00,360.17,22.60,12.70
```



House_Price_Prediction.ipynb

colab.research.google.com/drive/17mxQ3DG5efTqBgj-otv09y3phb0_s6Kf

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.model_selection import train_test_split
from sklearn.linear_model import  LinearRegression
from sklearn import metrics
from xgboost import XGBRegressor
```

Double-click (or enter) to edit

```
[2] dataset = pd.read_csv("/content/boston.csv")
```

```
[3] dataset
```

	CRIM	ZN	INDUS	CHAS	NOX	RM	AGE	DIS	RAD	TAX	PTRATIO	B	LSTAT	MEDV
0	0.00632	18.0	2.31	0	0.538	6.575	65.2	4.0900	1	296.0	15.3	396.90	4.98	24.0
1	0.02731	0.0	7.07	0	0.469	6.421	78.9	4.9671	2	242.0	17.8	396.90	9.14	21.6
2	0.02729	0.0	7.07	0	0.469	7.185	61.1	4.9671	2	242.0	17.8	392.83	4.03	34.7

House_Price_Prediction.ipynb

colab.research.google.com/drive/17mxQ3DG5efTqBgj-otv09y3phb0_s6Kf

House_Price_Prediction.ipynb

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```
[4] dataset.head()
```

	CRIM	ZN	INDUS	CHAS	NOX	RM	AGE	DIS	RAD	TAX	PTRATIO	B	LSTAT	MEDV
0	0.00632	18.0	2.31	0	0.538	6.575	65.2	4.0900	1	296.0	15.3	396.90	4.98	24.0
1	0.02731	0.0	7.07	0	0.469	6.421	78.9	4.9671	2	242.0	17.8	396.90	9.14	21.6
2	0.02729	0.0	7.07	0	0.469	7.185	61.1	4.9671	2	242.0	17.8	392.83	4.03	34.7
3	0.03237	0.0	2.18	0	0.458	6.998	45.8	6.0622	3	222.0	18.7	394.63	2.94	33.4
4	0.06905	0.0	2.18	0	0.458	7.147	54.2	6.0622	3	222.0	18.7	396.90	5.33	36.2

Next steps: Generate code with dataset | View recommended plots | New interactive sheet

```
[5] dataset.tail()
```

	CRIM	ZN	INDUS	CHAS	NOX	RM	AGE	DIS	RAD	TAX	PTRATIO	B	LSTAT	MEDV
501	0.06263	0.0	11.93	0	0.573	6.593	69.1	2.4786	1	273.0	21.0	391.99	9.67	22.4
502	0.04527	0.0	11.93	0	0.573	6.120	76.7	2.2875	1	273.0	21.0	396.90	9.08	20.6
503	0.06076	0.0	11.93	0	0.573	6.976	91.0	2.1675	1	273.0	21.0	396.90	5.64	23.9
504	0.10959	0.0	11.93	0	0.573	6.794	89.3	2.3889	1	273.0	21.0	393.45	6.48	22.0

Variables Terminal

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Search

ENG IN 21:46 13-06-2025

House_Price_Prediction.ipynb

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House_Price_Prediction.ipynb

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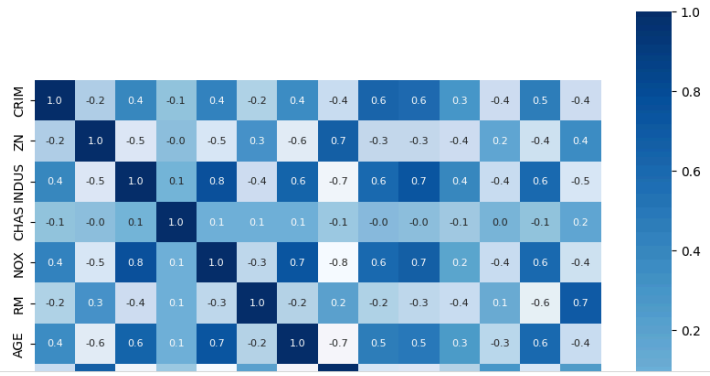
RAM Disk

```
[10] plt.figure(figsize=(10,10))
     sns.heatmap(coorelation,cbar=True,square=True,fmt='.1f',annot=True,annot_kws={'size':8}, cmap='Blues')
```

<Axes: >



Variables Terminal

9:46 PM Python 3

Search

ENG IN 21:46 13-06-2025

House_Price_Prediction.ipynb

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House_Price_Prediction.ipynb

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RAM Disk

[12] X

	CRIM	ZN	INDUS	CHAS	NOX	RM	AGE	DIS	RAD	TAX	PTRATIO	B	LSTAT
0	0.00632	18.0	2.31	0	0.538	6.575	65.2	4.0900	1	296.0	15.3	396.90	4.98
1	0.02731	0.0	7.07	0	0.469	6.421	78.9	4.9671	2	242.0	17.8	396.90	9.14
2	0.02729	0.0	7.07	0	0.469	7.185	61.1	4.9671	2	242.0	17.8	392.83	4.03
3	0.03237	0.0	2.18	0	0.458	6.998	45.8	6.0622	3	222.0	18.7	394.63	2.94
4	0.06905	0.0	2.18	0	0.458	7.147	54.2	6.0622	3	222.0	18.7	396.90	5.33
...	...	...	...	...	...	...	...	...	...	...	...	...	...
501	0.06263	0.0	11.93	0	0.573	6.593	69.1	2.4786	1	273.0	21.0	391.99	9.67
502	0.04527	0.0	11.93	0	0.573	6.120	76.7	2.2875	1	273.0	21.0	396.90	9.08
503	0.06076	0.0	11.93	0	0.573	6.976	91.0	2.1675	1	273.0	21.0	396.90	5.64
504	0.10959	0.0	11.93	0	0.573	6.794	89.3	2.3889	1	273.0	21.0	393.45	6.48
505	0.04741	0.0	11.93	0	0.573	6.030	80.8	2.5050	1	273.0	21.0	396.90	7.88

506 rows × 13 columns

Variables Terminal 9:46 PM Python 3

Search ENG IN 21:47 13-06-2025

House_Price_Prediction.ipynb

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House_Price_Prediction.ipynb

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RAM Disk

```
(506, 13) (404, 13) (102, 13)
```

[16]
```
model = LinearRegression()
```

[17]
```
model.fit(X_train,Y_train)
```

```
LinearRegression
LinearRegression()
```

[18]
```
model_prediction = model.predict(X_train)
```

[19]
```
model_prediction
```

```
array([ 6.19615015, 21.71589448, 22.1865478 , 13.75887417, 32.74650511,
       21.41923987, 36.20387531, 20.55047817, 26.73319062, 12.56311885,
       21.56156942, 25.07194929, 21.05704901, 18.99616288, 15.60952383,
       21.21579876, 34.56673537, 16.92863012, 17.12180752, 17.57678502,
       19.77156519,  7.38827589, 17.63435084, 19.48742123, 17.20064676,
       13.36430405, 18.99529356, 26.70458291, 28.99452247, 23.26277954,
       31.71238487, 28.66406811,  7.76301037, 21.91346737, 16.99771571,
       28.8055228 , 32.92825747, 24.85810044, 33.65957962, 13.06622423,
       14.29976615, 36.98598662,  6.43185673, 31.28821548, 26.01020311,
       17.69132533, 15.8270425 , 33.00062476, 27.62470019, 27.26053943,
```

Variables Terminal 9:46 PM Python 3

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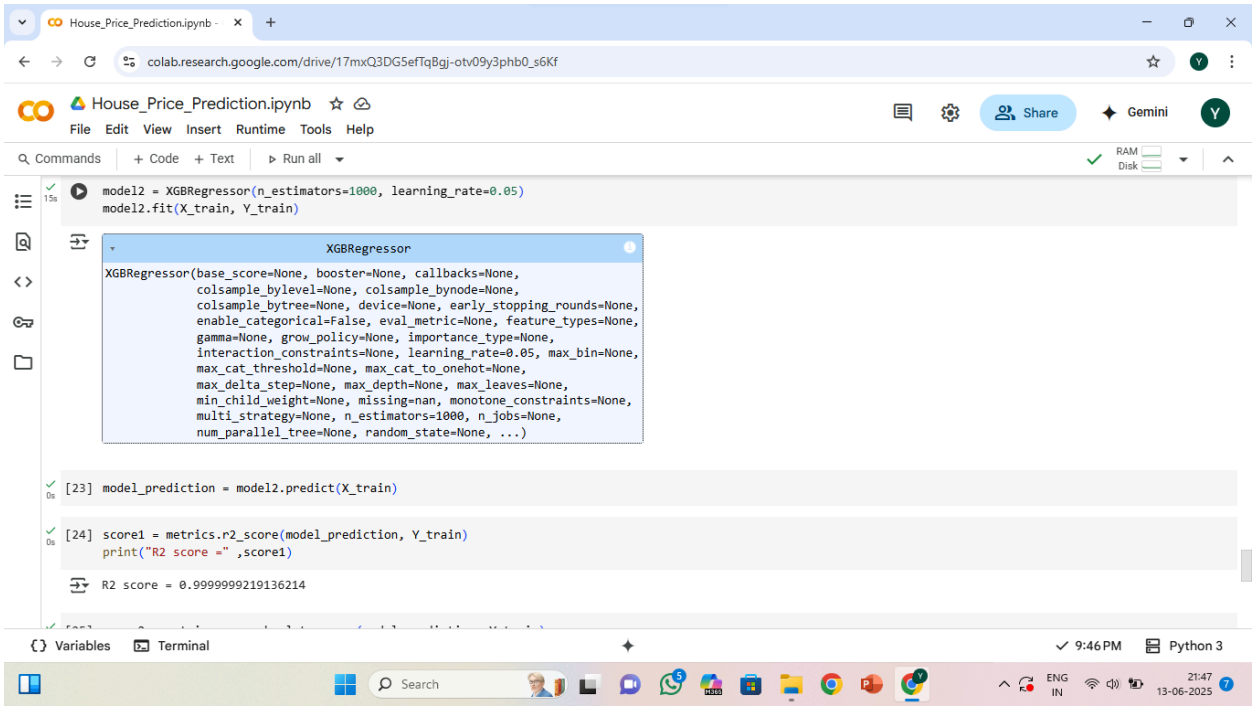
House_Price_Prediction.ipynb
colab.research.google.com/drive/17mxQ3DG5efTqBgj-otv09y3phb0_s6Kf
House_Price_Prediction.ipynb
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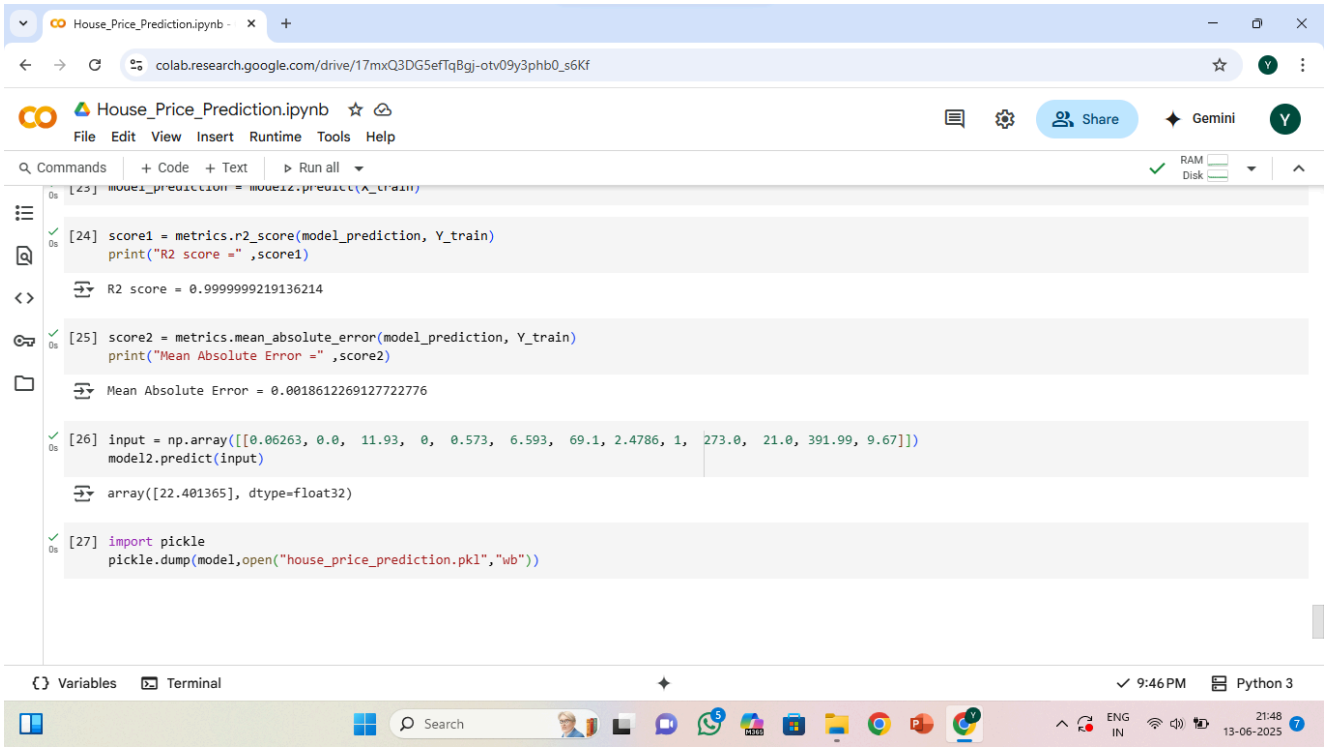
RAM Disk
model2 = XGBRegressor(n_estimators=1000, learning_rate=0.05)
model2.fit(X_train, Y_train)
XGBRegressor
XGBRegressor(base_score=None, booster=None, callbacks=None,
colsample_bylevel=None, colsample_bynode=None,
colsample_bytree=None, device=None, early_stopping_rounds=None,
enable_categorical=False, eval_metric=None, feature_types=None,
gamma=None, grow_policy=None, importance_type=None,
interaction_constraints=None, learning_rate=0.05, max_bin=None,
max_cat_threshold=None, max_cat_to_onehot=None,
max_delta_step=None, max_depth=None, max_leaves=None,
min_child_weight=None, missing=nan, monotone_constraints=None,
multi_strategy=None, n_estimators=1000, n_jobs=None,
num_parallel_tree=None, random_state=None, ...)
[23] model_prediction = model2.predict(X_train)
[24] score1 = metrics.r2_score(model_prediction, Y_train)
print("R2 score =" ,score1)
R2 score = 0.9999999219136214
Variables Terminal
9:46 PM Python 3
Search
ENG IN
21:47 13-06-2025


House_Price_Prediction.ipynb
colab.research.google.com/drive/17mxQ3DG5efTqBgj-otv09y3phb0_s6Kf
House_Price_Prediction.ipynb
File Edit View Insert Runtime Tools Help
Share
Gemini
Commands + Code + Text Run all
RAM Disk
[24] score1 = metrics.r2_score(model_prediction, Y_train)
print("R2 score =" ,score1)
R2 score = 0.9999999219136214
[25] score2 = metrics.mean_absolute_error(model_prediction, Y_train)
print("Mean Absolute Error =" ,score2)
Mean Absolute Error = 0.0018612269127722776
[26] input = np.array([[0.06263, 0.0, 11.93, 0, 0.573, 6.593, 69.1, 2.4786, 1, 273.0, 21.0, 391.99, 9.67]])
model2.predict(input)
array([22.401365], dtype=float32)
[27] import pickle
pickle.dump(model,open("house_price_prediction.pkl","wb"))
Variables Terminal
9:46 PM Python 3
Search
ENG IN
21:48 13-06-2025