In [99]:
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import sklearn
from sklearn.model_selection import train_test_split,GridSearchCV
from sklearn.ensemble import RandomForestRegressor
from sklearn import datasets
```

In [100…
```
dataset = datasets.load_boston()
dir(dataset)
```

Out[100…
```
['DESCR', 'data', 'feature_names', 'filename', 'target']
```

In [101…
```
feature = pd.DataFrame(dataset.data,columns=dataset.feature_names)
feature.head(3)
```

Out[101…

	CRIM	ZN	INDUS	CHAS	NOX	RM	AGE	DIS	RAD	TAX	PTRATIO	B	LSTAT
0	0.00632	18.0	2.31	0.0	0.538	6.575	65.2	4.0900	1.0	296.0	15.3	396.90	4.98
1	0.02731	0.0	7.07	0.0	0.469	6.421	78.9	4.9671	2.0	242.0	17.8	396.90	9.14
2	0.02729	0.0	7.07	0.0	0.469	7.185	61.1	4.9671	2.0	242.0	17.8	392.83	4.03

In [102…
```
label = pd.DataFrame(dataset.target)
label.head(3)
```

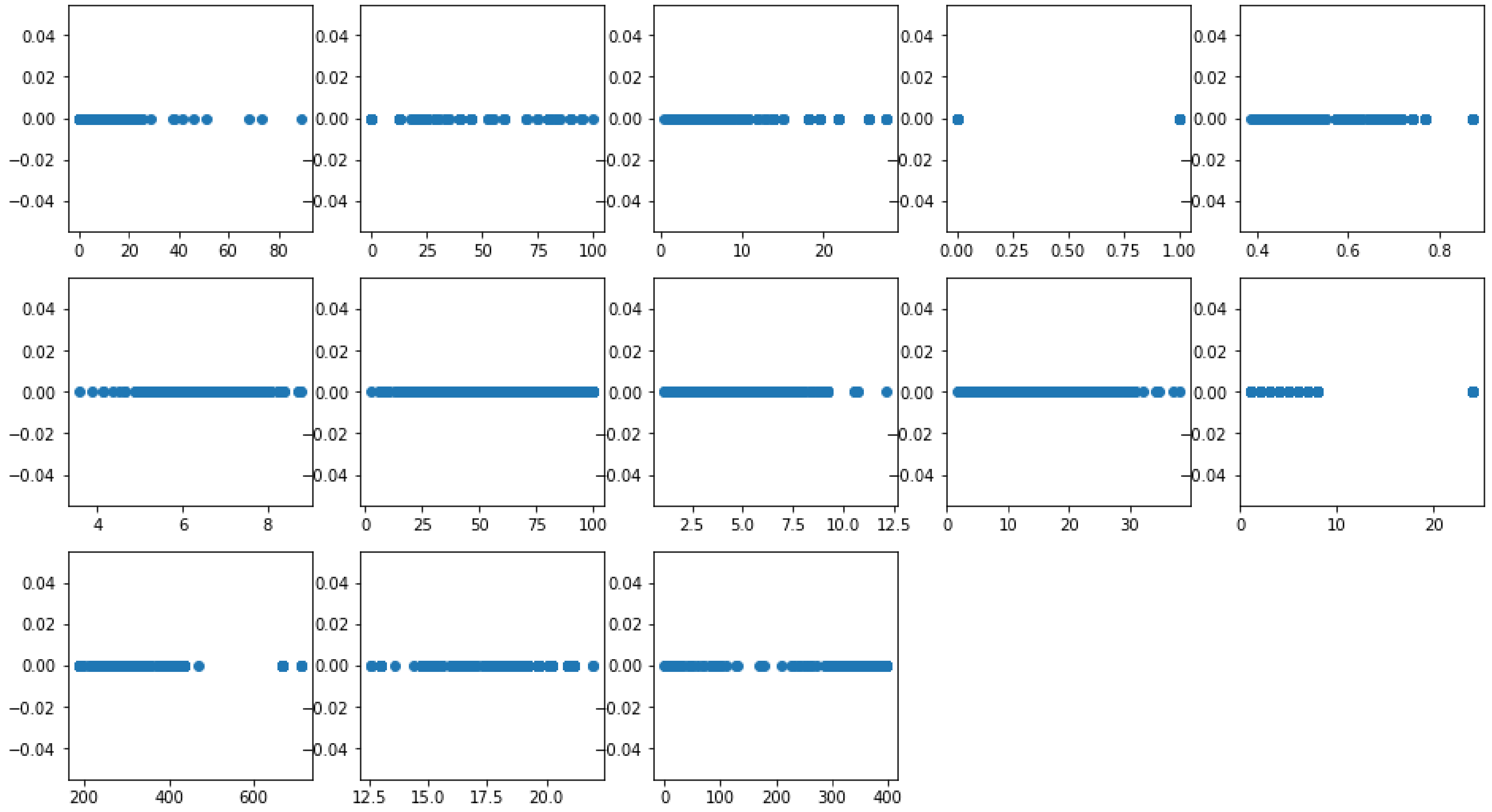
Out[102…

	0
0	24.0
1	21.6
2	34.7

Univariate Analysis

In [103…
```
plt.figure(figsize=(16,9))
```

```python
plt.subplot(3,5,1)
plt.plot(feature['CRIM'],np.zeros_like(feature['CRIM']),'o')
plt.subplot(3,5,2)
plt.plot(feature['ZN'],np.zeros_like(feature['ZN']),'o')
plt.subplot(3,5,3)
plt.plot(feature['INDUS'],np.zeros_like(feature['INDUS']),'o')
plt.subplot(3,5,4)
plt.plot(feature['CHAS'],np.zeros_like(feature['CHAS']),'o')
plt.subplot(3,5,5)
plt.plot(feature['NOX'],np.zeros_like(feature['NOX']),'o')
plt.subplot(3,5,6)
plt.plot(feature['RM'],np.zeros_like(feature['RM']),'o')
plt.subplot(3,5,7)
plt.plot(feature['AGE'],np.zeros_like(feature['AGE']),'o')
plt.subplot(3,5,8)
plt.plot(feature['DIS'],np.zeros_like(feature['DIS']),'o')
plt.subplot(3,5,9)
plt.plot(feature['LSTAT'],np.zeros_like(feature['LSTAT']),'o')
plt.subplot(3,5,10)
plt.plot(feature['RAD'],np.zeros_like(feature['RAD']),'o')
plt.subplot(3,5,11)
plt.plot(feature['TAX'],np.zeros_like(feature['TAX']),'o')
plt.subplot(3,5,12)
plt.plot(feature['PTRATIO'],np.zeros_like(feature['PTRATIO']),'o')
plt.subplot(3,5,13)
plt.plot(feature['B'],np.zeros_like(feature['B']),'o')
plt.show()
```



Multivariate Analysis

In [104…

```
data= pd.concat([feature,label],axis=1)
data.head(2)
```

Out[104…

	CRIM	ZN	INDUS	CHAS	NOX	RM	AGE	DIS	RAD	TAX	PTRATIO	B	LSTAT	0
0	0.00632	18.0	2.31	0.0	0.538	6.575	65.2	4.0900	1.0	296.0	15.3	396.9	4.98	24.0

	CRIM	ZN	INDUS	CHAS	NOX	RM	AGE	DIS	RAD	TAX	PTRATIO	B	LSTAT	0
1	0.02731	0.0	7.07	0.0	0.469	6.421	78.9	4.9671	2.0	242.0	17.8	396.9	9.14	21.6

In [105…

```
data = data.rename(columns={0:"Target"})
data.head(3)
```

Out[105…

	CRIM	ZN	INDUS	CHAS	NOX	RM	AGE	DIS	RAD	TAX	PTRATIO	B	LSTAT	Target
0	0.00632	18.0	2.31	0.0	0.538	6.575	65.2	4.0900	1.0	296.0	15.3	396.90	4.98	24.0
1	0.02731	0.0	7.07	0.0	0.469	6.421	78.9	4.9671	2.0	242.0	17.8	396.90	9.14	21.6
2	0.02729	0.0	7.07	0.0	0.469	7.185	61.1	4.9671	2.0	242.0	17.8	392.83	4.03	34.7

In [107…

```
plt.figure(figsize=(16,9))
sns.pairplot(data,hue='Target')
plt.show()
```

```
C:\Users\kants\AppData\Local\Programs\Python\Python37\lib\site-packages\seaborn\distributions.py:305: UserWarning: Dataset has 0
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```
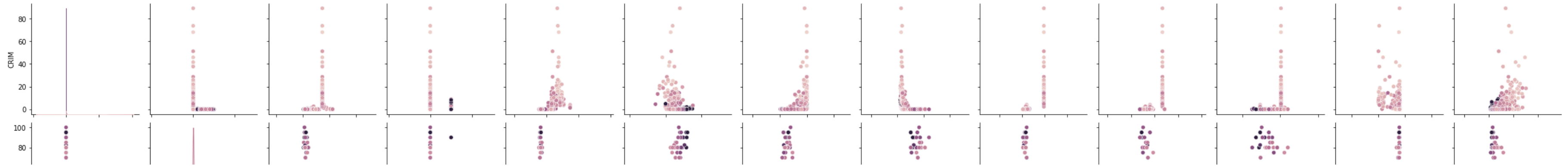
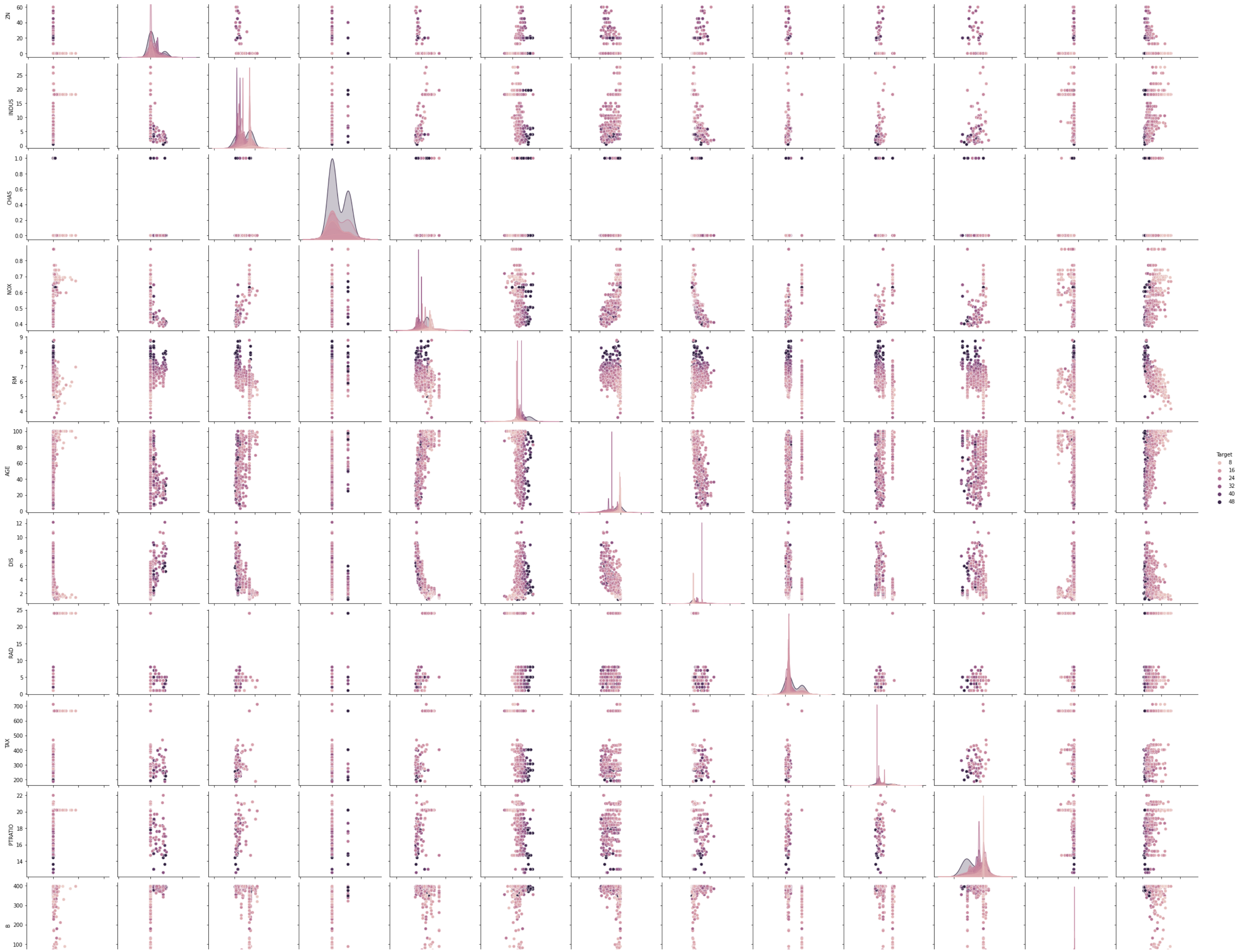

```
<Figure size 1152x648 with 0 Axes>
```




ZN
INDUS
CHAS
NOX
RM
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DIS
RAD
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8
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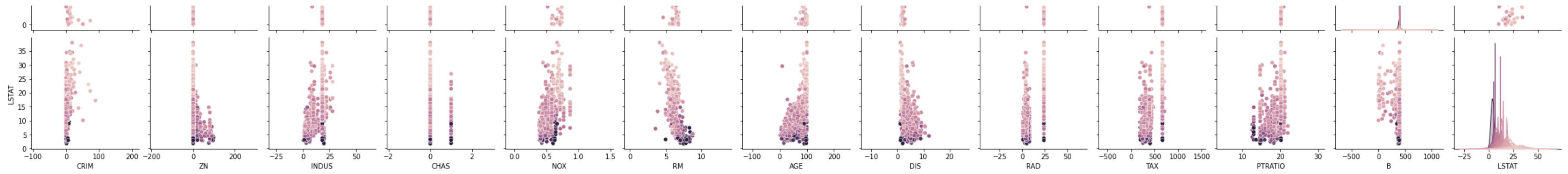
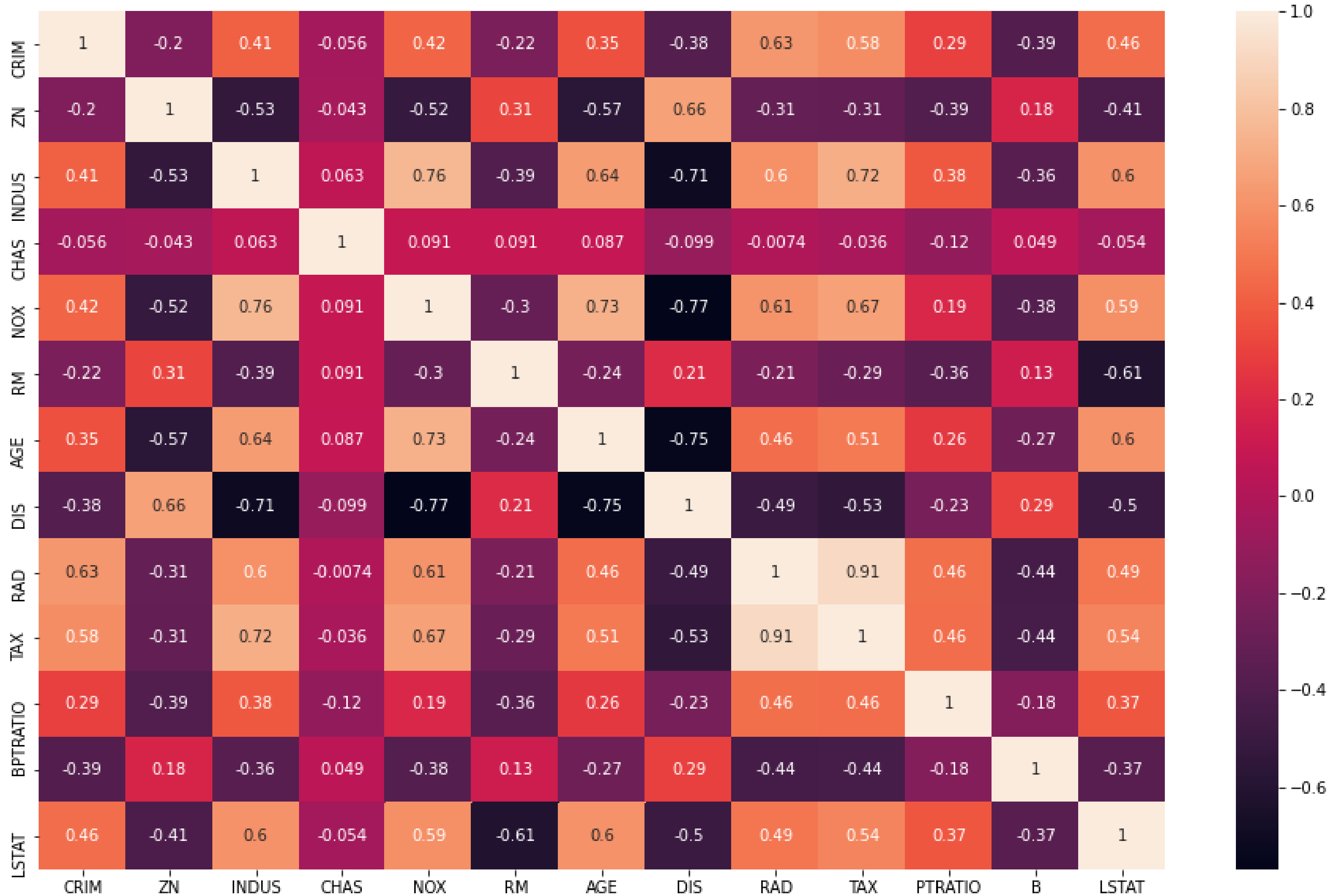


In [108…
```
corr = feature.corr()
corr.head(2)
```

Out[108…

	CRIM	ZN	INDUS	CHAS	NOX	RM	AGE	DIS	RAD	TAX	PTRATIO	B	LSTAT
CRIM	1.000000	-0.200469	0.406583	-0.055892	0.420972	-0.219247	0.352734	-0.379670	0.625505	0.582764	0.289946	-0.385064	0.455621
ZN	-0.200469	1.000000	-0.533828	-0.042697	-0.516604	0.311991	-0.569537	0.664408	-0.311948	-0.314563	-0.391679	0.175520	-0.412995

In [109…
```
plt.figure(figsize=(16,10))
sns.heatmap(corr,annot=True)
plt.show()
```



	CRIM	ZN	INDUS	CHAS	NOX	RM	AGE	DIS	RAD	TAX	PTRATIO	B	LSTAT
CRIM	1	-0.2	0.41	-0.056	0.42	-0.22	0.35	-0.38	0.63	0.58	0.29	-0.39	0.46
ZN	-0.2	1	-0.53	-0.043	-0.52	0.31	-0.57	0.66	-0.31	-0.31	-0.39	0.18	-0.41
INDUS	0.41	-0.53	1	0.063	0.76	-0.39	0.64	-0.71	0.6	0.72	0.38	-0.36	0.6
CHAS	-0.056	-0.043	0.063	1	0.091	0.091	0.087	-0.099	-0.0074	-0.036	-0.12	0.049	-0.054
NOX	0.42	-0.52	0.76	0.091	1	-0.3	0.73	-0.77	0.61	0.67	0.19	-0.38	0.59
RM	-0.22	0.31	-0.39	0.091	-0.3	1	-0.24	0.21	-0.21	-0.29	-0.36	0.13	-0.61
AGE	0.35	-0.57	0.64	0.087	0.73	-0.24	1	-0.75	0.46	0.51	0.26	-0.27	0.6
DIS	-0.38	0.66	-0.71	-0.099	-0.77	0.21	-0.75	1	-0.49	-0.53	-0.23	0.29	-0.5
RAD	0.63	-0.31	0.6	-0.0074	0.61	-0.21	0.46	-0.49	1	0.91	0.46	-0.44	0.49
TAX	0.58	-0.31	0.72	-0.036	0.67	-0.29	0.51	-0.53	0.91	1	0.46	-0.44	0.54
PTRATIO	0.29	-0.39	0.38	-0.12	0.19	-0.36	0.26	-0.23	0.46	0.46	1	-0.18	0.37
B	-0.39	0.18	-0.36	0.049	-0.38	0.13	-0.27	0.29	-0.44	-0.44	-0.18	1	-0.37
LSTAT	0.46	-0.41	0.6	-0.054	0.59	-0.61	0.6	-0.5	0.49	0.54	0.37	-0.37	1

In [110…

```
x = data.drop('Target',axis=1)
y = (data['Target']).astype('int')
x_train,x_test,y_train,y_test = train_test_split(x,y,test_size=0.25)
```

Applying random forest classifier

```
In [111…  model = RandomForestRegressor()
          model.fit(x_train,y_train)

Out[111…  RandomForestRegressor()

In [112…  print(f"Train_model_score: {model.score(x_train,y_train)}")
          print(f"Test_model_score: {model.score(x_test,y_test)}")

          Train_model_score: 0.9806544234146064
          Test_model_score: 0.8993272343814955
```

Hyper Tunning By Using GridSearchCV

```
In [113…  grid_params = {"n_estimators" : [10,40,65,100],
                         "max_depth" : range(2,20,1),
                         "min_samples_leaf" : range(1,10,1),
                         "min_samples_split" : range(2,10,1),
                         "max_features" : ['auto','log2']
                         }

In [114…  from sklearn.model_selection import GridSearchCV
          grid_search = GridSearchCV(estimator=model,param_grid=grid_params,cv=5,n_jobs=-1,verbose=3)

In [115…  grid_search.fit(x_train,y_train)

          Fitting 5 folds for each of 10368 candidates, totalling 51840 fits

Out[115…  GridSearchCV(cv=5, estimator=RandomForestRegressor(), n_jobs=-1,
                       param_grid={'max_depth': range(2, 20),
                                   'max_features': ['auto', 'log2'],
                                   'min_samples_leaf': range(1, 10),
                                   'min_samples_split': range(2, 10),
                                   'n_estimators': [10, 40, 65, 100]},
                       verbose=3)

In [116…  grid_search.best_params_

Out[116…  {'max_depth': 10,
           'max_features': 'auto',
           'min_samples_leaf': 1,
           'min_samples_split': 2,
           'n_estimators': 10}
```

```
In [119…  model2 = RandomForestRegressor(n_estimators = 10,max_depth = 10,min_samples_split = 2,min_samples_leaf = 1,max_features = 'auto')
          model2

Out[119…  RandomForestRegressor(max_depth=10, n_estimators=10)

In [120…  model2.fit(x_train,y_train)

Out[120…  RandomForestRegressor(max_depth=10, n_estimators=10)

In [122…  model2.score(x_test,y_test)

Out[122…  0.8971377179058918

In [125…  y_predicted = model2.predict(x_test)

In [131…  from sklearn.metrics import r2_score,mean_squared_error
          print(f'R^2 : {r2_score(y_test,y_predicted)}')
          print(f'MSE : {mean_squared_error(y_test,y_predicted)}')
          print(f'RMSE: {np.sqrt(mean_squared_error(y_test, y_predicted))}')

          R^2 : 0.8971377179058918
          MSE : 7.854599319462901
          RMSE: 2.802605808789902

In [ ]:
```