

In [46]	<pre>ax=df.iloc[0:13].plot(label="pre plt.legend(loc='upper right') plt.title("Original Vs Predicted plt.xlabel("index") plt.ylabel("values") plt.show()</pre>	Original Vs Predicted(Training dataset)  Original Vs Predicted(Training dataset)  predicted_price actual_prize
	40 - 30 -	
In [47]:	20 - 10 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	4 6 8 10 12 index
In [47]	test_index=pd.DataFrame(y_test.r test_index MEDV  0 16.5 1 24.8 2 17.4 3 19.3 4 37.6	reset_index(),columns=['MEDV'])
In [48]:	147   14.9  148   21.9  149   18.5  150   30.8  151   14.6  152 rows × 1 columns  : dft=pd.DataFrame(y_test_pred,col	umns=['predicted price'])
Out[48]	dft	dmins-[ predicted_price ])
In [49]	147 15.2 148 35.2 149 18.7 150 28.4 151 12.6 152 rows × 1 columns : dft['actual_prize']=test_index['dft	MEDV']
Out[49]	predicted_price actual_prize  1	
In [50]	<pre>148</pre>	redicted", figsize=(15,10), linewidth=3, color="rb")  (Testing dataset)")
	plt.ylabel("values") plt.show()  45	Original Vs Predicted(Testing dataset)  — predicted_price — actual_prize
	35 - Sales 30 - 25 -	
	20 - 15 - 2	4 6 8 10 12 index
	<pre># Import Random Forest Regressor from sklearn.ensemble import Ran # Create a Random Forest Regress reg = RandomForestRegressor() # Train the model using the trai reg.fit(X_train, y_train) : RandomForestRegressor()</pre>	domForestRegressor
In [53]	<pre>: print("Accuracy on Traing set: "   print("Accuracy on Testing set:   Accuracy on Traing set: 0.98167   Accuracy on Testing set: 0.8351  : # Model prediction on train data   y_pred = reg.predict(X_train)  : # Model Evaluation   print('R^2:',metrics.r2_score(y_   print('MAE:',metrics.mean_absolumnint('MSE:',metrics.mean_square</pre>	", reg.score(X_test, y_test))  58194725794  878286175581  train, y_pred))  te_error(y_train, y_pred))
	<pre>R^2: 0.9816758194725794 MAE: 0.8005988700564974 MSE: 1.379276271186442 RMSE: 1.1744259326098185  : # Predicting Test data with the y_test_pred = reg.predict(X_test) : # Model Evaluation print('R^2:',metrics.r2_score(y_</pre>	<pre>model test, y_test_pred))</pre>
In [57]	<pre>print('MAE:',metrics.mean_absolu print('MSE:',metrics.mean_square print('RMSE:',np.sqrt(metrics.me  R^2: 0.8351878286175581 MAE: 2.4811776315789467 MSE: 17.209698848684212 RMSE: 4.14845740591418  : y_train   train_index=pd.DataFrame(y_train train_index</pre>	<pre>ite_error(y_test, y_test_pred))</pre>
Out[57]	MEDV         0       23.9         1       18.2         2       21.7         3       13.5         4       50.0             349       7.2	
In [58]	df	'predicted_price'])
	predicted_price         0       23.092         1       18.831         2       19.957         3       13.852         4       48.002             349       8.062         350       31.247         351       12.667	
In [59]	352 21.895 353 20.025  354 rows × 1 columns  : df['actual_prize']=train_index['df  : predicted_price actual_prize  0 23.092 23.9	MEDV']
	0       23.092       23.9         1       18.831       18.2         2       19.957       21.7         3       13.852       13.5         4       48.002       50.0              349       8.062       7.2         350       31.247       30.3         351       12.667       12.8         352       21.895       22.6	
In [60]	353 20.025 20.5  354 rows × 2 columns  : # Visualizing the differences be plt.scatter(y_train, y_pred) plt.xlabel("Prices") plt.ylabel("Predicted prices") plt.title("Prices vs Predicted plt.show()  Prices vs Predicted prices	
	50 - 40 - 80 - 20 -	
In [61]	in 20 30 Prices  ax=df.iloc[0:13].plot(label="preplet.legend(loc='upper right') plt.title("Original Vs Predicted plt.xlabel("index") plt.ylabel("values") plt.show()	edicted", figsize=(15,10), linewidth=3, color="rb")
	40 -	actual_prize
	20 -	
In [62]	<pre>test_index=pd.DataFrame(y_test.r test_index   MEDV  0 16.5</pre>	4 6 8 10 12 index  eset_index(),columns=['MEDV'])
	1 24.8 2 17.4 3 19.3 4 37.6 147 14.9 148 21.9 149 18.5 150 30.8	
In [63] Out[63]	dft	.umns=['predicted_price'])
	2 19.332 3 17.260 4 46.642 147 15.462 148 41.664 149 19.759 150 26.616 151 15.068	
In [64]	<pre>152 rows × 1 columns  dft['actual_prize']=test_index[' dft</pre>	MEDV']
Out[64]	<b>2</b> 19.332 17.4	
Out[64]	2       19.332       17.4         3       17.260       19.3         4       46.642       37.6              147       15.462       14.9         148       41.664       21.9         149       19.759       18.5         150       26.616       30.8         151       15.068       14.6	
	2 19.332 17.4 3 17.260 19.3 4 46.642 37.6 147 15.462 14.9 148 41.664 21.9 149 19.759 18.5 150 26.616 30.8 151 15.068 14.6  152 rows × 2 columns	redicted", figsize=(15,10), linewidth=3, color="rb")  (Testing dataset)")  Original Vs Predicted(Testing dataset)  predicted_price actual_prize
	2 19.332 17.4  3 17.260 19.3  4 46.642 37.6   147 15.462 14.9  148 41.664 21.9  149 19.759 18.5  150 26.616 30.8  151 15.068 14.6  152 rows × 2 columns  : ax=dft.iloc[0:13].plot(label="prplt.legend(loc='upper right') plt.title("Original Vs Predicted plt.xlabel("index") plt.ylabel("values") plt.show()	Original Vs Predicted(Testing dataset)  — predicted_price
	2 19.332 17.4 3 17.260 19.3 4 46.642 37.6 147 15.462 14.9 148 41.664 21.9 149 19.759 18.5 150 26.616 30.8 151 15.068 14.6  152 rows × 2 columns  : ax=dft.iloc[0:13].plot(label="prplt.legend(loc='upper right') plt.title("Original Vs Predicted plt.xlabel("index") plt.ylabel("values") plt.show()  45 - 40 - 45 -	Original Vs Predicted(Testing dataset)  — predicted_price
In [65]:	2 19.332 17.4 3 17.260 19.3 4 46.642 37.6 147 15.462 14.9 148 41.664 21.9 149 19.759 18.5 150 26.616 30.8 151 15.068 14.6  152 rows × 2 columns  : ax=dft.iloc[0:13].plot(label="pr plt.legend(loc='upper right') plt.title("Original Vs Predicted plt.xlabel("index") plt.ylabel("values") plt.show()  45 45 46 47 49 49 49 49 49 49 49 49 49 49 49 49 49	Original Vs Predicted(Testing dataset)  Predicted price actual prize  atual prize  e models and then selected Random Forest Regression model as it is
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In [65]: In [66]:	2 19.332 17.4 3 17.260 19.3 4 46.642 37.6 147 15.462 14.9 148 41.664 21.9 149 19.759 18.5 150 26.616 30.8 151 15.068 14.6  152 rows × 2 columns  : ax=dft.iloc[0:13].plot(label="prplt.legend(loc='upper right') plt.stitle("Original Vs Predicted plt.xlabel("index") plt.ylabel("values") plt.show()  45 40 40 45 45 46 47 47 47 48 48 49 49 49 49 49 49 49 49 49 49 49 49 49	Original Vs Predicted(Testing dataset)  Predicted price actual prize  actual prize  e models and then selected Random Forest Regression model as it is  t prices  4.12628155, 1.6165014, 0.67288841, 1.42262747, 11.44443979304, 49.312
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