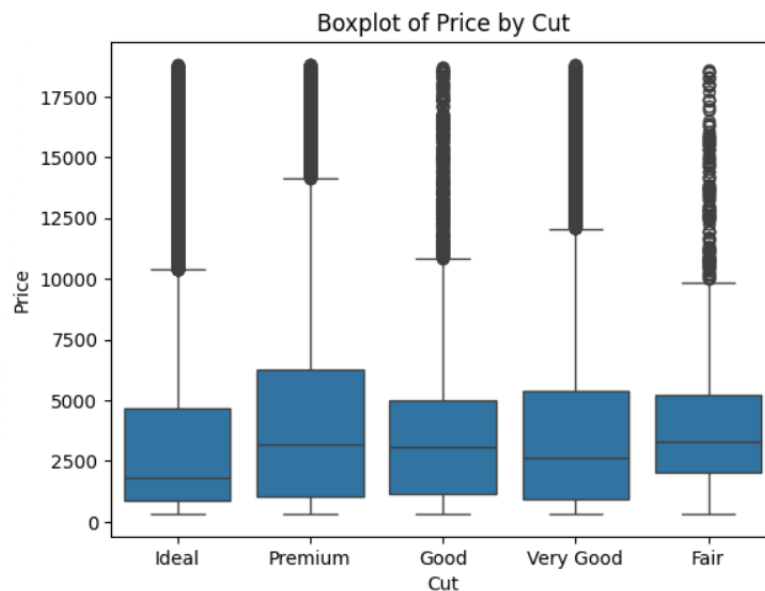
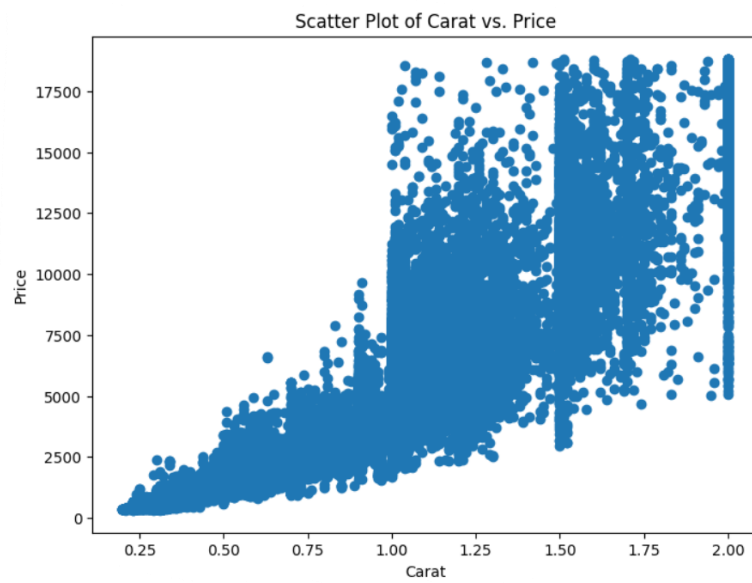
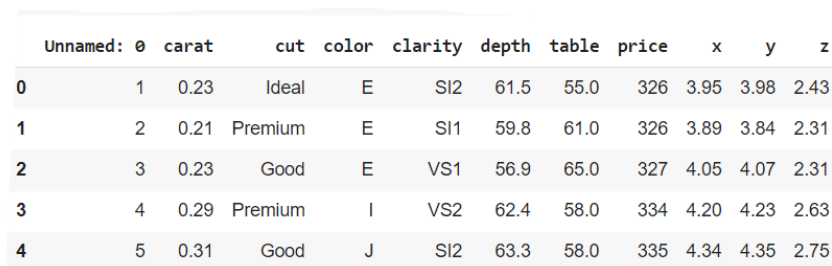


Univariate Analysis



Bivariate Analysis



Outliers and Anomalies	<pre>#Dropping the outliers. df = df[(df["depth"]<75)&(df["depth"]>45)] df = df[(df["table"]<80)&(df["table"]>40)] df = df[(df["x"]<30)] df = df[(df["y"]<30)] df = df[(df["z"]<30)&(df["z"]>2)] df.shape</pre> <p>(53907, 10)</p>																																																																								
Data Preprocessing Code Screenshots																																																																									
Loading Data	 <table><thead><tr><th></th><th>Unnamed: 0</th><th>carat</th><th>cut</th><th>color</th><th>clarity</th><th>depth</th><th>table</th><th>price</th><th>x</th><th>y</th><th>z</th></tr></thead><tbody><tr><td>0</td><td>1</td><td>0.23</td><td>Ideal</td><td>E</td><td>SI2</td><td>61.5</td><td>55.0</td><td>326</td><td>3.95</td><td>3.98</td><td>2.43</td></tr><tr><td>1</td><td>2</td><td>0.21</td><td>Premium</td><td>E</td><td>SI1</td><td>59.8</td><td>61.0</td><td>326</td><td>3.89</td><td>3.84</td><td>2.31</td></tr><tr><td>2</td><td>3</td><td>0.23</td><td>Good</td><td>E</td><td>VS1</td><td>56.9</td><td>65.0</td><td>327</td><td>4.05</td><td>4.07</td><td>2.31</td></tr><tr><td>3</td><td>4</td><td>0.29</td><td>Premium</td><td>I</td><td>VS2</td><td>62.4</td><td>58.0</td><td>334</td><td>4.20</td><td>4.23</td><td>2.63</td></tr><tr><td>4</td><td>5</td><td>0.31</td><td>Good</td><td>J</td><td>SI2</td><td>63.3</td><td>58.0</td><td>335</td><td>4.34</td><td>4.35</td><td>2.75</td></tr></tbody></table>		Unnamed: 0	carat	cut	color	clarity	depth	table	price	x	y	z	0	1	0.23	Ideal	E	SI2	61.5	55.0	326	3.95	3.98	2.43	1	2	0.21	Premium	E	SI1	59.8	61.0	326	3.89	3.84	2.31	2	3	0.23	Good	E	VS1	56.9	65.0	327	4.05	4.07	2.31	3	4	0.29	Premium	I	VS2	62.4	58.0	334	4.20	4.23	2.63	4	5	0.31	Good	J	SI2	63.3	58.0	335	4.34	4.35	2.75
	Unnamed: 0	carat	cut	color	clarity	depth	table	price	x	y	z																																																														
0	1	0.23	Ideal	E	SI2	61.5	55.0	326	3.95	3.98	2.43																																																														
1	2	0.21	Premium	E	SI1	59.8	61.0	326	3.89	3.84	2.31																																																														
2	3	0.23	Good	E	VS1	56.9	65.0	327	4.05	4.07	2.31																																																														
3	4	0.29	Premium	I	VS2	62.4	58.0	334	4.20	4.23	2.63																																																														
4	5	0.31	Good	J	SI2	63.3	58.0	335	4.34	4.35	2.75																																																														
Data Transformation	—																																																																								
Feature Engineering	Attached the codes in final submission.																																																																								
Save Processed Data	-																																																																								