qwuobzqlo

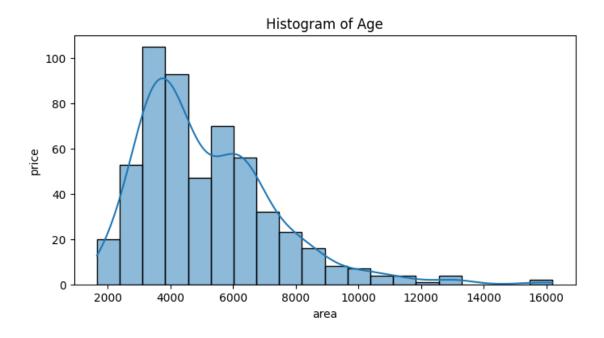
September 6, 2023

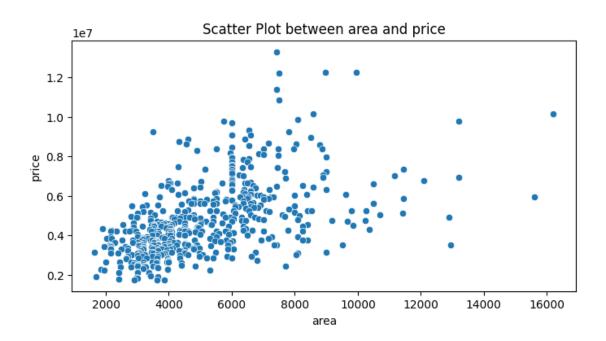
DIGITAL ASSIGNMENT - 2

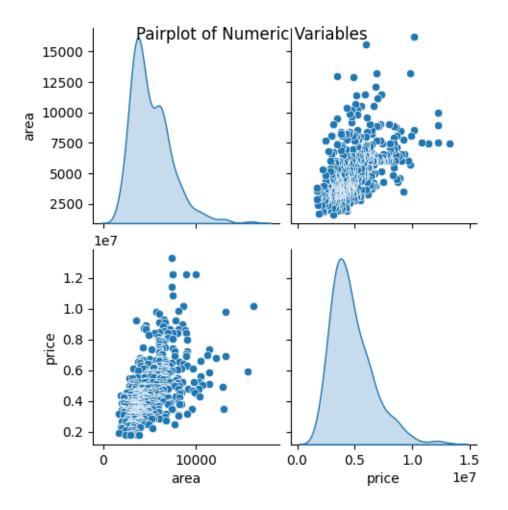
NAME - AKARSHIT MISRA REG.NO - 21BAI1597

```
[6]: import pandas as pd
     import matplotlib.pyplot as plt
     import seaborn as sns
     import numpy as np
     dataset = pd.read_csv('/content/House Price.csv')
     # Task 1: Univariate Analysis
     plt.figure(figsize=(8, 4))
     sns.histplot(dataset['area'], bins=20, kde=True)
     plt.title('Histogram of Age')
     plt.xlabel('area')
     plt.ylabel('price')
     plt.show()
     # Task 2: Bivariate Analysis
     plt.figure(figsize=(8, 4))
     sns.scatterplot(data=dataset, x='area', y='price')
     plt.title('Scatter Plot between area and price')
     plt.xlabel('area')
     plt.ylabel('price')
     plt.show()
     # Task 3: Multivariate Analysis
     sns.pairplot(dataset[['area', 'price', 'furnishingstatus']], diag_kind='kde')
     plt.suptitle('Pairplot of Numeric Variables')
     plt.show()
     # Task 4: Descriptive Statistics
     descriptive_stats = dataset.describe()
     print("Descriptive Statistics:\n", descriptive_stats)
     # Task 5: Handling Missing Values
     dataset['price'].fillna(dataset['price'].mean(), inplace=True)
```

missing_values = dataset.isnull().sum()
print("Missing Values After Handling:\n", missing_values)







Descriptive Statistics:

	price	area	bedrooms	bathrooms	stories	\
count	5.450000e+02	545.000000	545.000000	545.000000	545.000000	
mean	4.766729e+06	5150.541284	2.965138	1.286239	1.805505	
std	1.870440e+06	2170.141023	0.738064	0.502470	0.867492	
min	1.750000e+06	1650.000000	1.000000	1.000000	1.000000	
25%	3.430000e+06	3600.000000	2.000000	1.000000	1.000000	
50%	4.340000e+06	4600.000000	3.000000	1.000000	2.000000	
75%	5.740000e+06	6360.000000	3.000000	2.000000	2.000000	
max	1.330000e+07	16200.000000	6.000000	4.000000	4.000000	

	parking
count	545.000000
mean	0.693578
std	0.861586
min	0.000000
25%	0.000000
50%	0.000000

75% 1.000000 3.000000 max Missing Values After Handling: price 0 0 area bedrooms 0 bathrooms 0 stories 0 0 mainroad 0 guestroom basement 0 0 hotwaterheating airconditioning 0 0 parking 0 prefarea furnishingstatus 0 dtype: int64