

```

42 sns.heatmap(numeric_df.corr(), annot=True, cmap='coolwarm', center=0,
   ↪ linewidths=0.5)
43 plt.title("Correlation Heatmap")
44 plt.show()
45
46 # 4. Statistical Summary
47 print("\nStatistical Summary (Numeric):")
48 print(df.describe())
49 print("\nAll done! Data fully explored.")

```

Output:

```

1 Shape (rows, columns) : (150, 5)
2 Total samples: 150
3 Total features: 5
4
5 Columns:
6 ['sepal.length', 'sepal.width', 'petal.length', 'petal.width', 'variety']
7
8 First 5 rows:
9      sepal.length  sepal.width  petal.length  petal.width  variety
10 0           5.1          3.5           1.4           0.2   Setosa
11 1           4.9          3.0           1.4           0.2   Setosa
12 2           4.7          3.2           1.3           0.2   Setosa
13 3           4.6          3.1           1.5           0.2   Setosa
14 4           5.0          3.6           1.4           0.2   Setosa
15
16 Data types & missing values:
17 <class 'pandas.core.frame.DataFrame'>
18 RangeIndex: 150 entries, 0 to 149
19 Data columns (total 5 columns):
20  #   Column                Non-Null Count  Dtype
21  ---  ---
22  0   sepal.length          150 non-null    float64
23  1   sepal.width           150 non-null    float64
24  2   petal.length          150 non-null    float64
25  3   petal.width           150 non-null    float64
26  4   variety               150 non-null    object
27 dtypes: float64(4), object(1)
28 memory usage: 6.0+ KB
29 None
30
31 Missing values per column:
32 sepal.length      0
33 sepal.width       0
34 petal.length      0
35 petal.width       0
36 variety           0
37 dtype: int64
38

```