

In [1]: `import pandas as pd`

In [3]: `df = pd.read_csv('Airbnb_NYC.csv')`

In [4]: `df`

Out [4]:

	Boroughs	Latitude	Longitude	Prop_Type	Min_Nights	Host_Listing_Cnt	Days_Available	Review_Cnt	Reviews30d	Price
0	Bronx	40.80011	-73.91330	PrivateRoom	21.0	2.0	291	19	0.27	60.0
1	Bronx	40.80024	-73.91422	PrivateRoom	3.0	1.0	0	59	2.93	49.0
2	Bronx	40.80074	-73.91574	PrivateRoom	3.0	1.0	354	3	0.87	50.0
3	Bronx	40.80091	-73.91449	PrivateRoom	21.0	2.0	117	18	0.36	71.0
4	Bronx	40.80143	-73.91353	EntireHome	2.0	3.0	0	12	3.50	115.0
...
38728	Staten Island	40.64641	-74.08502	EntireHome	2.0	1.0	106	58	4.73	130.0
38729	Staten Island	40.64682	-74.08734	PrivateRoom	20.0	1.0	89	58	1.05	43.0
38730	Staten Island	40.64730	-74.08408	PrivateRoom	30.0	4.0	0	85	1.35	105.0
38731	Staten Island	40.64762	-74.08682	EntireHome	3.0	1.0	232	5	1.88	135.0
38732	Staten Island	40.64779	-74.08460	EntireHome	1.0	1.0	250	108	2.32	140.0

38733 rows × 10 columns

In [7]: `percentile_99 = df.Price.quantile(0.99)`
`percentile_99`

Out [7]: 650.0

In [9]: `df[df.Price>percentile_99]`

Out [9]:

	Boroughs	Latitude	Longitude	Prop_Type	Min_Nights	Host_Listing_Cnt	Days_Available	Review_Cnt	Reviews30d	Price
418	Bronx	40.84378	-73.84469	EntireHome	1.0	1.0	179	2	0.29	670.0
809	Bronx	40.88515	-73.91411	SharedRoom	2.0	3.0	269	1	0.04	800.0
916	Brooklyn	40.57645	-74.01065	EntireHome	2.0	1.0	260	6	0.23	1485.0
1001	Brooklyn	40.58599	-73.92762	EntireHome	1.0	1.0	365	1	0.02	2000.0
1726	Brooklyn	40.63573	-73.96433	EntireHome	5.0	1.0	37	2	0.28	745.0
...
37154	Queens	40.75836	-73.87631	PrivateRoom	1.0	1.0	126	1	0.02	700.0
37278	Queens	40.76001	-73.92313	PrivateRoom	1.0	1.0	154	1	0.32	700.0
37556	Queens	40.76364	-73.82292	EntireHome	1.0	6.0	363	10	3.53	999.0
37787	Queens	40.76626	-73.93054	SharedRoom	3.0	2.0	90	5	0.13	1800.0
37908	Queens	40.76810	-73.91651	PrivateRoom	100.0	1.0	0	2	0.04	10000.0

352 rows × 10 columns

In [20]: `dfl=df[df.Price<=percentile_99]`
`dfl`

Out [20]:

	Boroughs	Latitude	Longitude	Prop_Type	Min_Nights	Host_Listing_Cnt	Days_Available	Review_Cnt	Reviews30d	Price
0	Bronx	40.80011	-73.91330	PrivateRoom	21.0	2.0	291	19	0.27	60.0
1	Bronx	40.80024	-73.91422	PrivateRoom	3.0	1.0	0	59	2.93	49.0
2	Bronx	40.80074	-73.91574	PrivateRoom	3.0	1.0	354	3	0.87	50.0
3	Bronx	40.80091	-73.91449	PrivateRoom	21.0	2.0	117	18	0.36	71.0
4	Bronx	40.80143	-73.91353	EntireHome	2.0	3.0	0	12	3.50	115.0
...
38728	Staten Island	40.64641	-74.08502	EntireHome	2.0	1.0	106	58	4.73	130.0
38729	Staten Island	40.64682	-74.08734	PrivateRoom	20.0	1.0	89	58	1.05	43.0
38730	Staten Island	40.64730	-74.08408	PrivateRoom	30.0	4.0	0	85	1.35	105.0
38731	Staten Island	40.64762	-74.08682	EntireHome	3.0	1.0	232	5	1.88	135.0
38732	Staten Island	40.64779	-74.08460	EntireHome	1.0	1.0	250	108	2.32	140.0

38372 rows × 10 columns

In [21]: `df.Price.mean()`

Out [21]: 140.87924801156905

In [22]: `df_new = df.fillna(df.Price.mean())`
`df_new`

Out [22]:

	Boroughs	Latitude	Longitude	Prop_Type	Min_Nights	Host_Listing_Cnt	Days_Available	Review_Cnt	Reviews30d	Price
0	Bronx	40.80011	-73.91330	PrivateRoom	21.0	2.0	291	19	0.27	60.0
1	Bronx	40.80024	-73.91422	PrivateRoom	3.0	1.0	0	59	2.93	49.0
2	Bronx	40.80074	-73.91574	PrivateRoom	3.0	1.0	354	3	0.87	50.0
3	Bronx	40.80091	-73.91449	PrivateRoom	21.0	2.0	117	18	0.36	71.0
4	Bronx	40.80143	-73.91353	EntireHome	2.0	3.0	0	12	3.50	115.0
...
38728	Staten Island	40.64641	-74.08502	EntireHome	2.0	1.0	106	58	4.73	130.0
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38731	Staten Island	40.64762	-74.08682	EntireHome	3.0	1.0	232	5	1.88	135.0
38732	Staten Island	40.64779	-74.08460	EntireHome	1.0	1.0	250	108	2.32	140.0

38733 rows × 10 columns

In [23]: `df_new = df.fillna(df.Price.median())`
`df_new`

Out [23]:

	Boroughs	Latitude	Longitude	Prop_Type	Min_Nights	Host_Listing_Cnt	Days_Available	Review_Cnt	Reviews30d	Price
0	Bronx	40.80011	-73.91330	PrivateRoom	21.0	2.0	291	19	0.27	60.0
1	Bronx	40.80024	-73.91422	PrivateRoom	3.0	1.0	0	59	2.93	49.0
2	Bronx	40.80074	-73.91574	PrivateRoom	3.0	1.0	354	3	0.87	50.0
3	Bronx	40.80091	-73.91449	PrivateRoom	21.0	2.0	117	18	0.36	71.0
4	Bronx	40.80143	-73.91353	EntireHome	2.0	3.0	0	12	3.50	115.0
...
38728	Staten Island	40.64641	-74.08502	EntireHome	2.0	1.0	106	58	4.73	130.0
38729	Staten Island	40.64682	-74.08734	PrivateRoom	20.0	1.0	89	58	1.05	43.0
38730	Staten Island	40.64730	-74.08408	PrivateRoom	30.0	4.0	0	85	1.35	105.0
38731	Staten Island	40.64762	-74.08682	EntireHome	3.0	1.0	232	5	1.88	135.0
38732	Staten Island	40.64779	-74.08460	EntireHome	1.0	1.0	250	108	2.32	140.0

