

Handling Outliers Using IQR

June 21, 2024

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```
[3]: import pandas as pd
import numpy as np
```

```
[13]: list_ = [1,2,3,4,5,6,9,10,12,55,60]
```

```
[14]: Q1 = np.percentile(list_,25)
Q3 = np.percentile(list_,75)
```

```
[15]: print(Q1)
print(Q3)
```

```
3.5
11.0
```

```
[16]: IQR = Q3 - Q1
```

```
[17]: IQR
```

```
[17]: 7.5
```

```
[21]: low = Q1 - 1.5 * IQR
upp = Q3 + 1.5 * IQR
print(Low)
print(Upp)
```

```
-7.75
22.25
```

```
[24]: outliers = []

for i in list_:
    if ((i > upp) or (i<low)):
        outliers.append(i)
print(outliers)
```

[55, 60]

[26]: *# Another way to find outliers*

```
for i in list_:           # It will all value in list except outliers
    if i not in outliers:
        print(i)
```

1
2
3
4
5
6
9
10
12

[36]: *# Removing outliers from my original list*
list_=[i for i in list_ if i not in outliers]
list_

[36]: [1, 2, 3, 4, 5, 6, 9, 10, 12]

[37]: list_

[37]: [1, 2, 3, 4, 5, 6, 9, 10, 12]

[]: