

```
In [1]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
```

```
In [2]: visa_df=pd.read_csv(r"C:\Users\omkar\OneDrive\Documents\Data science\Naresh IT\N
visa_df.head(2)
```

```
Out[2]:
```

0	EZYV01	Asia	High School	N	N
1	EZYV02	Asia	Master's	Y	N



Box plot

- box plot is used for detect outliers
- box plot has min q1 q2 q3 and max value
- Inside box plot red line represents median which 50 percentile data

outlier

- very very huge observation
- very very small observation
- which pull the data in any side of the distribution
- Mild outliers
 - $q1 - 1.5IQR$ and $q3 + 1.5IQR$
- Strong outliers
 - $q1 - 3IQR$ and $q3 + 3IQR$
- IQR : inter quartile range
 - $IQR = Q3 - Q1$
- $q1$: 25p
- $q2$: 50p
- $q3$: 75p

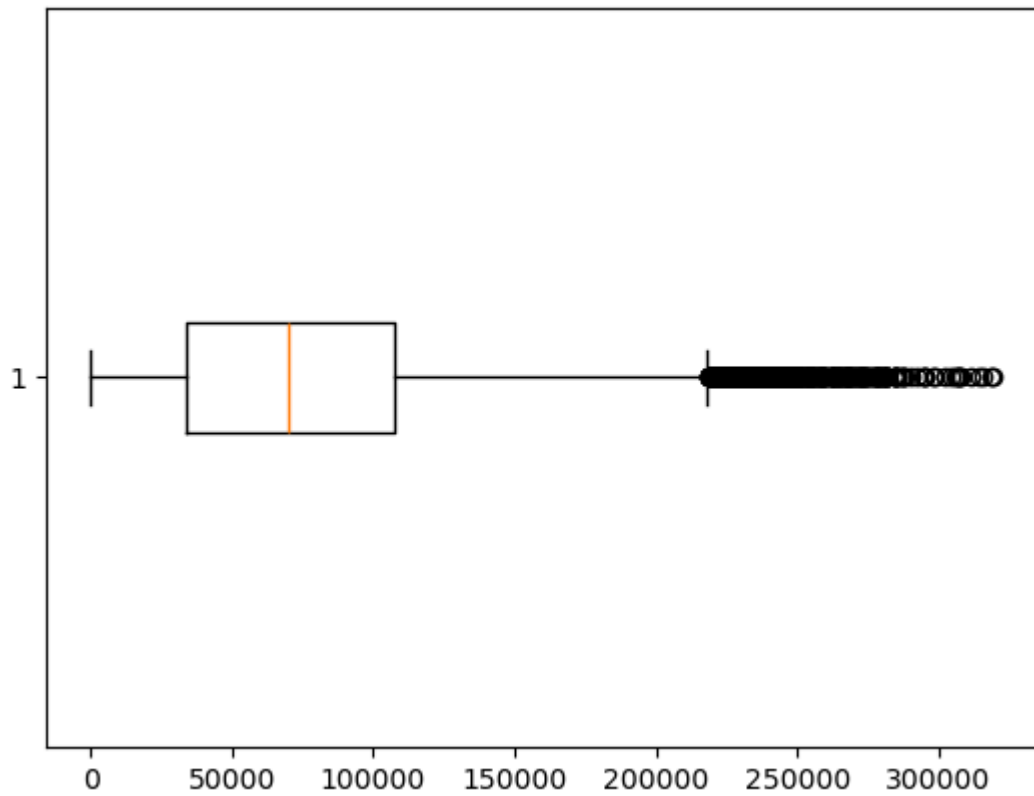
	Q1-1.5IQR	Q1	median	Q3	Q3+1.5IQR	
o	-----		-----:-----		-----	o o

flier

<----->
IQR

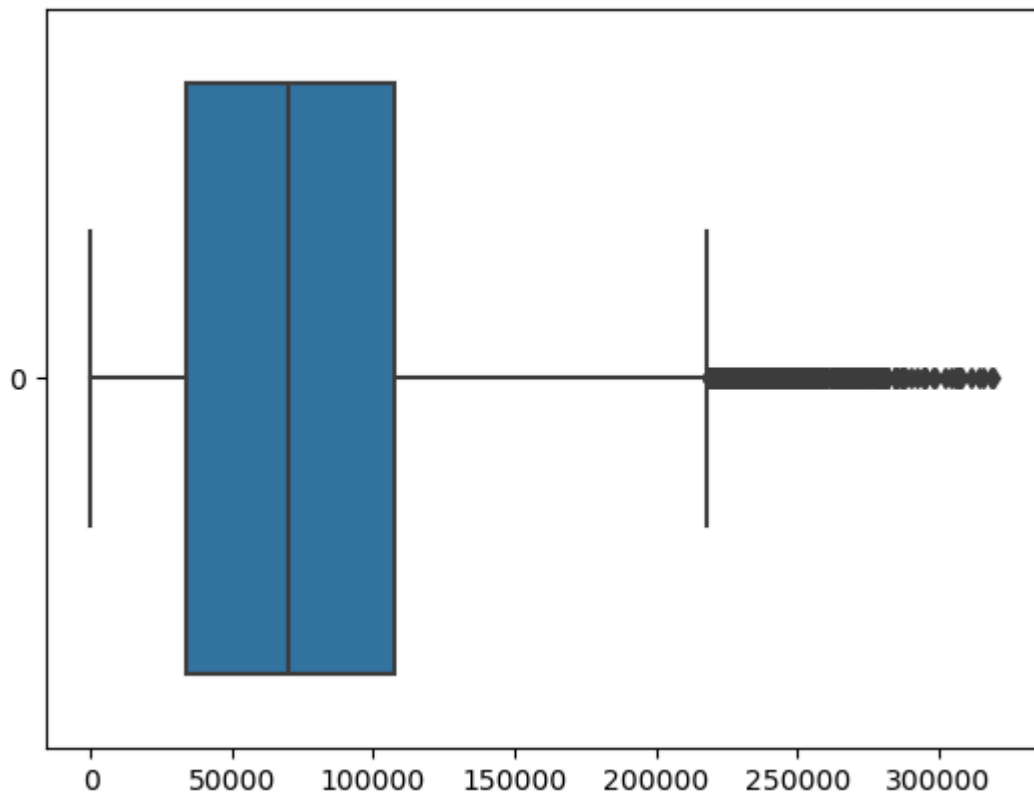
fliers

```
In [5]: plt.boxplot(visa_df['prevailing_wage'], vert=False)  
plt.show()
```



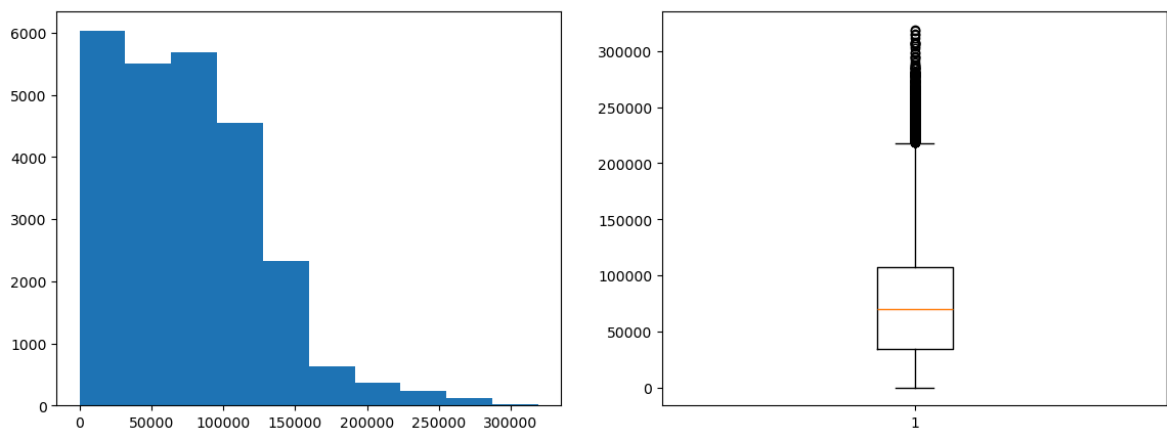
```
In [8]: sns.boxplot(visa_df['prevailing_wage'],  
orient='h')
```

Out[8]: <Axes: >

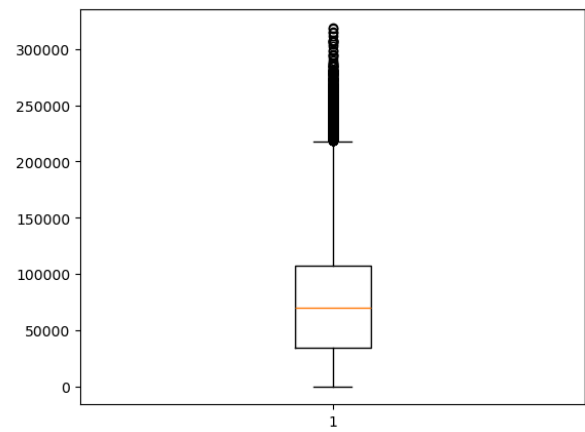
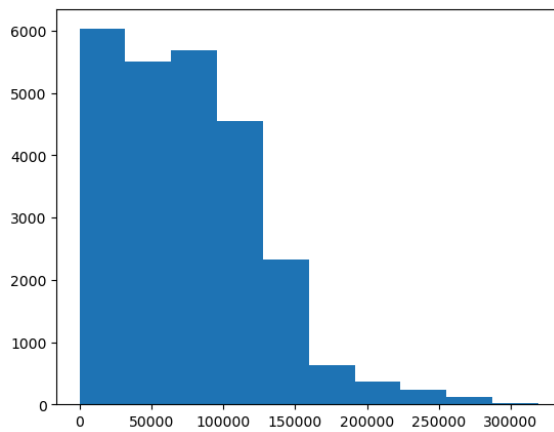


```
In [16]: plt.figure(figsize=(14,5))
plt.suptitle('common title heading for all subplot')
plt.subplot(1,2,1).hist(visa_df['prevailing_wage'])
plt.subplot(1,2,2).boxplot(visa_df['prevailing_wage'])
plt.show()
```

common title heading for all subplot



```
In [15]: plt.figure(figsize=(14,5))
plt.subplot(1,2,1)
plt.hist(visa_df['prevailing_wage'])
plt.subplot(1,2,2)
plt.boxplot(visa_df['prevailing_wage'])
plt.show()
```



Finding the outliers

- Outliers are available less than $q1 - 1.5 * IQR$
- Outliers are available greater than $q3 + 1.5 * IQR$
- Step1:
 - calculate Q1: 25p
 - Calculate Q3: 75p
 - Calculate IQR: $Q3 - Q1$
- Step-2:
 - $LB = Q1 - 1.5 * IQR$
 - $UB = Q3 + 1.5 * IQR$
- Step-3:
 - $con1 = visa_df['prevailing_wage'] < LB$
 - $con2 = visa_df['prevailing_wage'] > UB$
 - apply Or operator and get the outliers data

Outliers data

```
In [25]: Q1=round(np.percentile(visa_df['prevailing_wage'], 25), 2)
Q3=round(np.percentile(visa_df['prevailing_wage'], 75), 2)
IQR=Q3-Q1
LB= Q1-1.5*IQR
UB= Q3+1.5*IQR
con1=visa_df['prevailing_wage']<LB
con2=visa_df['prevailing_wage']>UB
outliers_data=visa_df[con1 | con2]
len(outliers_data)
```

Out[25]: 427

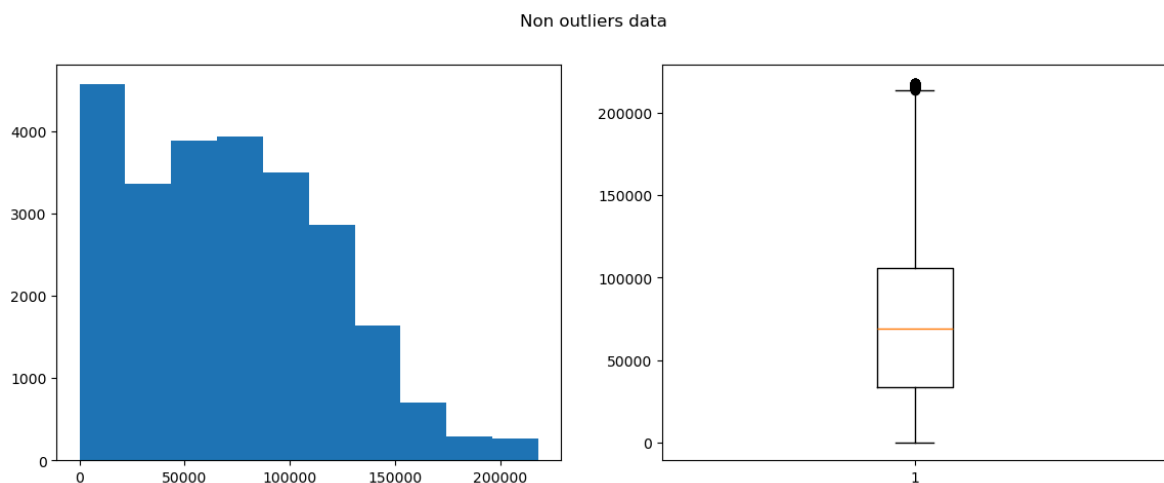
Non outliers data

```
In [27]: Q1=round(np.percentile(visa_df['prevailing_wage'], 25), 2)
Q3=round(np.percentile(visa_df['prevailing_wage'], 75), 2)
IQR=Q3-Q1
LB= Q1-1.5*IQR
UB= Q3+1.5*IQR
con1=visa_df['prevailing_wage']>LB
con2=visa_df['prevailing_wage']<UB
non_outliers_data=visa_df[con1 & con2]
len(non_outliers_data)
```

Out[27]: 25053

Histogram and boxplot for non outliers data

```
In [33]: plt.figure(figsize=(14,5))
plt.suptitle('Non outliers data')
plt.subplot(1,2,1).hist(non_outliers_data['prevailing_wage']) # 25053
plt.subplot(1,2,2).boxplot(non_outliers_data['prevailing_wage']) # 25053
plt.show()
```



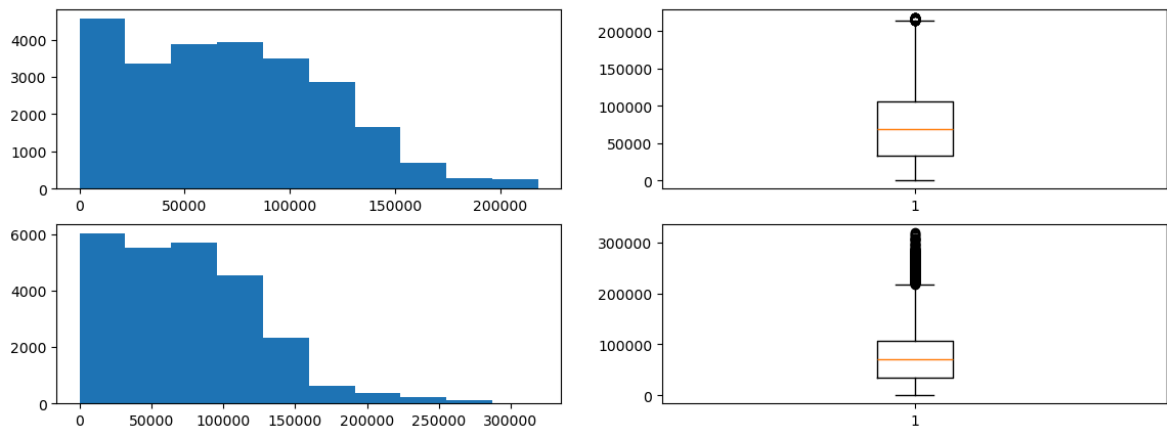
Comparing Total data with non outliers data

```
In [36]: plt.figure(figsize=(14,5)) # 14 units in x axis 5 units in y axis

plt.suptitle('Non outliers data vs original data')
plt.subplot(2,2,1).hist(non_outliers_data['prevailing_wage']) # 25053
plt.subplot(2,2,2).boxplot(non_outliers_data['prevailing_wage']) # 25053

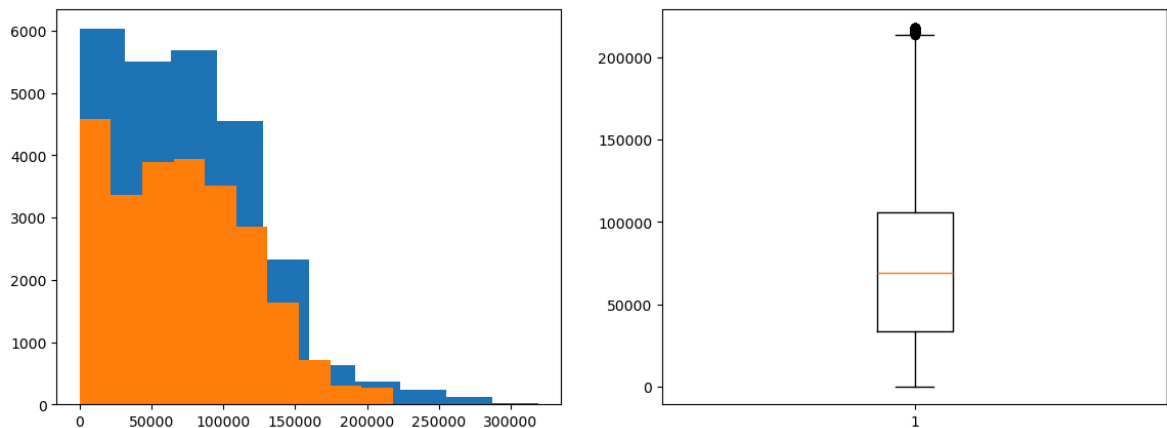
plt.subplot(2,2,3).hist(visa_df['prevailing_wage']) # 25480
plt.subplot(2,2,4).boxplot(visa_df['prevailing_wage']) # 25480
plt.show()
```

Non outliers data vs original data



```
In [37]: plt.figure(figsize=(14,5))

plt.subplot(1,2,1).hist(visa_df['prevailing_wage'])
plt.subplot(1,2,1).hist(non_outliers_data['prevailing_wage']) # 25053
plt.subplot(1,2,2).boxplot(non_outliers_data['prevailing_wage']) # 25053
plt.show()
```



How to deal the outliers

Method-1: Drop the outliers

- Drop the outliers is not a good idea
- When you drop the outliers, data will be lost
- For example here we are dropping 427 rows
- $x\%$ of 25480 = 427
- It is 1.7% data, here it is fine we can drop the outlier

Method-2: Fill with median value

- We already know that outliers do not affect the median
- So we can fill outliers by median

Method-3: Cap the values with Q1 and Q3

- all less than lower bound values, we can replace with q1 or LB
- all greater than upper bound values, we can replace with q3 or UB

Fill with median

- create a empty list
- calculate median value: `visa_df['prevailing_wage'].median`
- iterate through `visa_df['prevailing_wage'].values`
- if each value i.e. `i`, `ub` then append with median values
- else append with `i` value

```
In [43]: for i in visa_df['prevailing_wage'].values:
        if i < lb or i > ub:
```

592.2029
83425.65
122996.86
83434.03
149907.39
78252.14
53635.39
418.2298
74362.19
67514.76
83588.56
70813.09
28663.05
107196.03
220081.73
74108.02
3706.79
16132.61
150441.13
79948.12
71128.98
137694.98
45642.39
90108.38
71286.04
99489.65
86332.95
103029.33
40925.86
189190.48
79594.12
135866.13
72077.57
81921.18
225569.73
92421.92
2490.12
110817.26
50960.01
125336.9
39633.32
156326.33
43630.58
54614.42
28989.87
22924.91
61567.75
156251.17
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66191.41
95623.2
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35018.04
230.8072
113799.64
85854.09
14174.04
47176.84
4949.28

67410.59
58791.58
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62591.57
102919.59
123468.56
82324.64
5319.49
153019.94
38059.89
230.327
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122540.55
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28243.79
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57590.66
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65993.21
32161.6
16421.37

160676.39
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81781.43
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125323.7
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123437.12
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118.84
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516.4101
75587.42
76155.6
22845.56
51104.78
77092.57
279174.79
146298.85
86154.77
70876.91

```
In [41]: l1= []
         median = visa_df['prevailing_wage'].median()

         Q1 = np.percentile(visa_df['prevailing_wage'], 25)
         Q3 = np.percentile(visa_df['prevailing_wage'], 75)

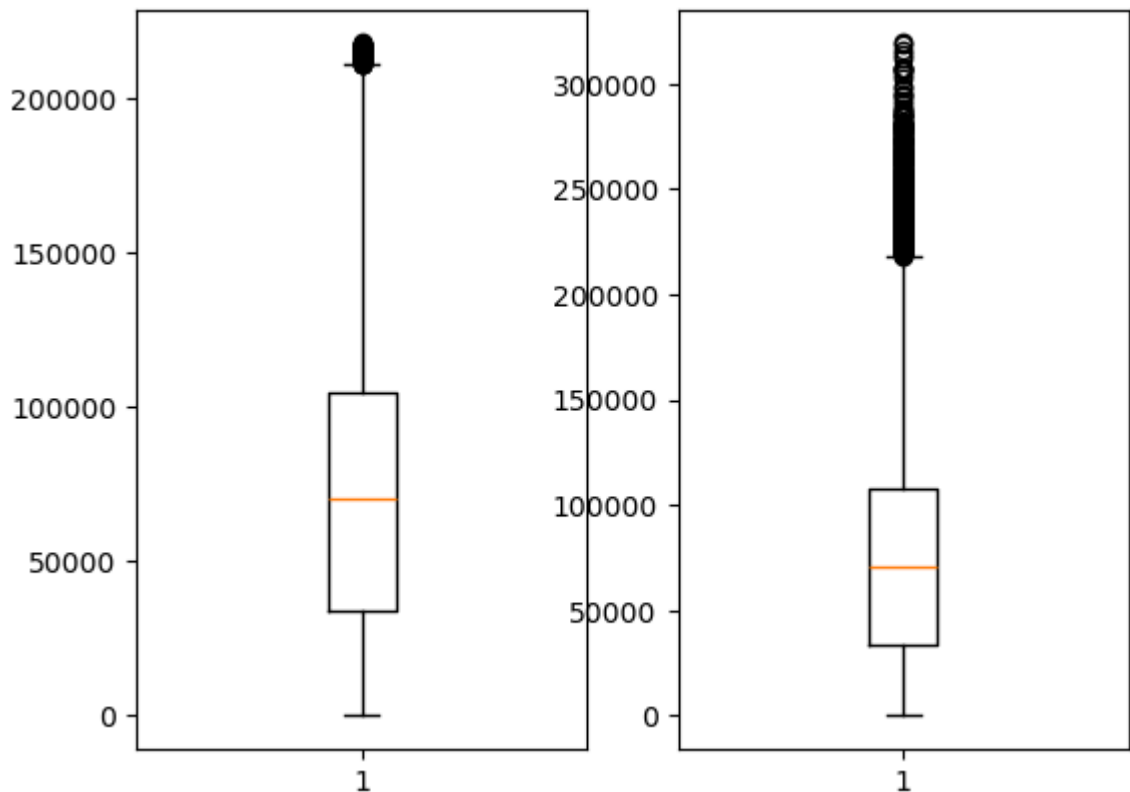
         IQR = Q3 - Q1
         LB = Q1 - 1.5 * IQR
         UB = Q3 + 1.5 * IQR

         for value in visa_df['prevailing_wage'].values:
             if value < LB or value > UB:
                 l1.append(median)
             else:
                 l1.append(value)

         visa_df_copy = visa_df.copy()
         visa_df_copy['prevailing_wage'] = l1
```



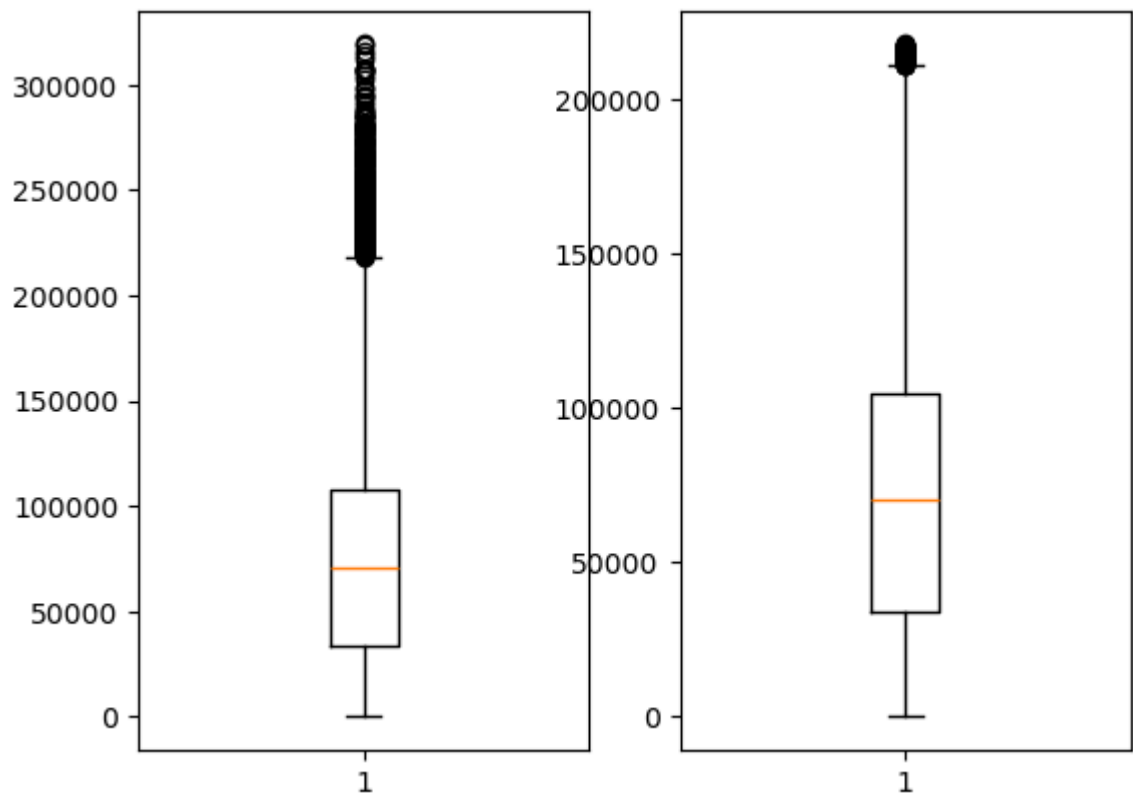
```
plt.subplot(1,2,1).boxplot(visa_df_copy['prevailing_wage'])
plt.subplot(1,2,2).boxplot(visa_df['prevailing_wage'])
plt.show()
```



```
In [47]: l=[]
median = visa_df['prevailing_wage'].median()
for i in (visa_df['prevailing_wage'].values):
    if i < LB or i > UB:
        l.append(median)
    else:
        l.append(i)

visa_df_copy = visa_df.copy()
visa_df_copy['prevailing_wage'] = l
plt.subplot(1,2,1).boxplot(visa_df['prevailing_wage'])
plt.subplot(1,2,2).boxplot(visa_df_copy['prevailing_wage'])
plt.show()

# Visa df: original data
# Visa df copy: medain values in place of outliers
```



np.where

- np.where will use for binary condition
- It has 3 arguments
 - condition
 - value if condition is True
 - value if condition False

```
In [50]: d={"sub":["DS", "ML", "CS"],
           "Marks":[100,150,20]}
data=pd.DataFrame(d)

# Marks column replace with 1 when value >100
# else same value
# Marks Marks
# 100    100
# 150     1
# 20     20
```

```
In [51]: con= data['Marks']>100
l=np.where(con,1,data['Marks'])
# if condition True then replace with :1
# if ondition false then replace with : data['Marks']
l
```

```
Out[51]: array([100,  1, 20], dtype=int64)
```

```

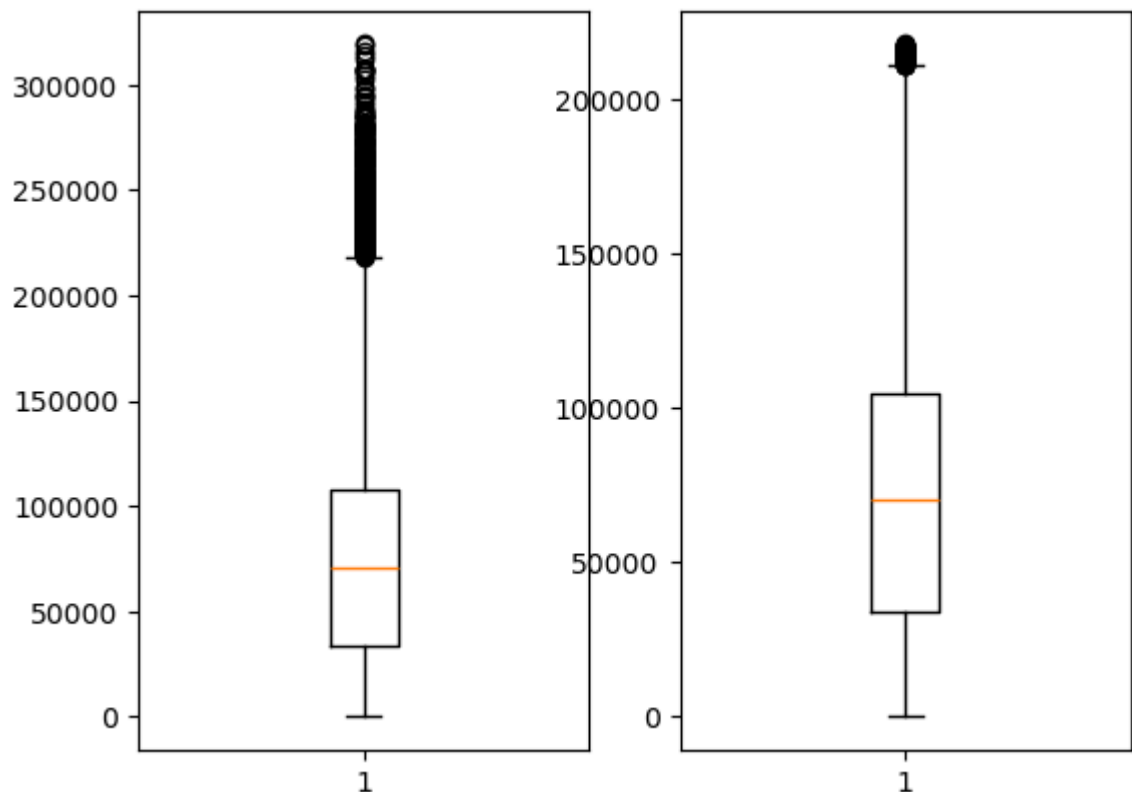
In [57]: con1=visa_df['prevailing_wage']<LB
con2=visa_df['prevailing_wage']>UB
con=con1 | con2

median=visa_df['prevailing_wage'].median()

new_data=np.where(con,
                  median,
                  visa_df['prevailing_wage'])

visa_df_copy = visa_df.copy()
visa_df_copy['prevailing_wage'] = new_data
plt.subplot(1,2,1).boxplot(visa_df['prevailing_wage'])
plt.subplot(1,2,2).boxplot(visa_df_copy['prevailing_wage'])
plt.show()

```



In []: