```
import pandas as pd
import numpy as np
df = pd.read_csv('/content/Iris.csv')
₹
           5.1 3.5 1.4 0.2 Iris-setosa
                                              扁
           4.9 3.0 1.4 0.2
                                  Iris-setosa
                                              d.
           4.7
                3.2 1.3 0.2
                                  Iris-setosa
                     1.5 0.2
           4.6
                3.1
                                  Iris-setosa
           5.0
                3.6 1.4 0.2
                                  Iris-setosa
           5.4
                3.9 1.7 0.4
                                  Iris-setosa
                      ...
          6.7
                3.0 5.2 2.3
      144
                                Iris-virginica
                2.5 5.0
                         1.9
                                Iris-virginica
                3.0 5.2 2.0
                                Iris-virginica
      146
          6.5
      147
          6.2 3.4 5.4 2.3
                                Iris-virginica
      148 5.9 3.0 5.1 1.8
                                Iris-virginica
     149 rows × 5 columns
                                    View recommended plots
 Next steps: (
             Generate code with df
                                                                  New interactive sheet
# Select numerical columns
numeric_columns = df.select_dtypes(include=['float64', 'int64']).columns
```

Detect the outlier using Inter Quantile Range(IQR)

```
# Detect outliers using IQR method
Q1 = df[numeric_columns].quantile(0.25)
Q3 = df[numeric_columns].quantile(0.75)
IQR = Q3 - Q1
# Define outlier thresholds
lower\_bound = Q1 - 1.5 * IQR
upper_bound = Q3 + 1.5 * IQR
print(lower_bound)
print(upper_bound)
    5.1
            3.15
₹
            2.05
     3.5
     1.4
           -3.65
     0.2
           -1.95
     dtype: float64
     5.1
             8.35
     3.5
             4.05
     1.4
            10.35
     0.2
             4.05
     dtype: float64
```

remove the outliers from the dataset.

```
# Remove outliers

df_cleaned = df[~((df[numeric_columns] < lower_bound) | (df[numeric_columns] > upper_bound)).any(axis=1)]

# Print updated dataset

print(df_cleaned.head())

5.1 3.5 1.4 0.2 Iris-setosa
0 4.9 3.0 1.4 0.2 Iris-setosa
1 4.7 3.2 1.3 0.2 Iris-setosa
2 4.6 3.1 1.5 0.2 Iris-setosa
3 5.0 3.6 1.4 0.2 Iris-setosa
4 5.4 3.9 1.7 0.4 Iris-setosa
```

Start coding or generate with AI.