$Rodriguez_Felipe_DSC640_Week10\text{-}11_Code$

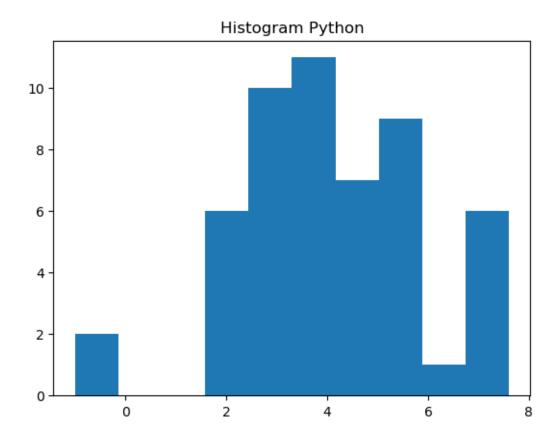
March 2, 2024

```
[5]: import pandas as pd
import matplotlib.pyplot as plt

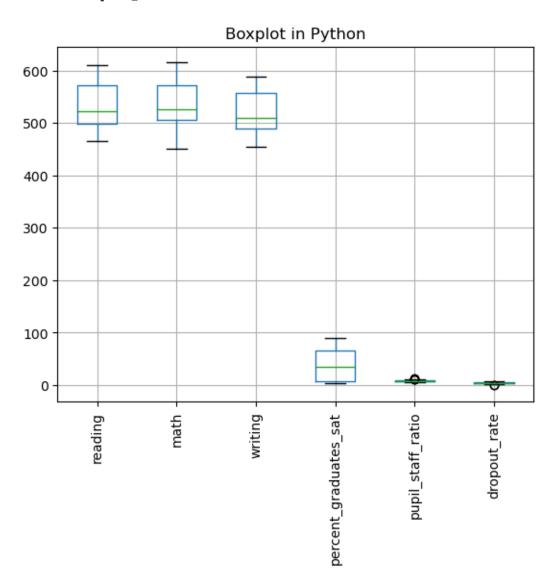
[2]: df = pd.read_csv("education.csv")

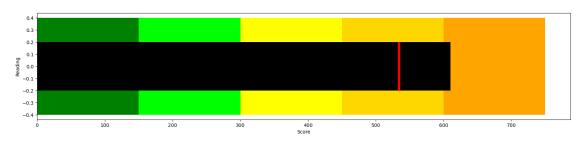
[7]: plt.hist(df['dropout_rate'])
    plt.title("Histogram Python")
```

[7]: Text(0.5, 1.0, 'Histogram Python')



```
[9]: df.boxplot()
plt.title("Boxplot in Python")
plt.xticks(rotation=90)
```





```
[53]: from math import pi
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```
[66]: # number of variables
    categories=list(df)[1:]
    N = len(categories)

    #plotting first item
    values=df.loc[0].drop('state').values.flatten().tolist()
    values += values[:1]
    values

# Calculating slices
    angles = [n / float(N) * 2 * pi for n in range(N)]
    angles += angles[:1]

# Initialise the spider plot
    ax = plt.subplot(111, polar=True)

# Draw one axe per variable + add labels
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plt.xticks(angles[:-1], categories, color='grey', size=8)

# Draw ylabels
ax.set_rlabel_position(0)
plt.yticks([100,200,300,400,500], ["100","200","300","400","500"],
color="grey", size=7)
plt.ylim(0,600)

# Plot data
ax.plot(angles, values, linewidth=1, linestyle='solid')

# Fill area
ax.fill(angles, values, 'b', alpha=0.1)

# Show the graph
plt.title("Spider Chart Python")
plt.show()
```

