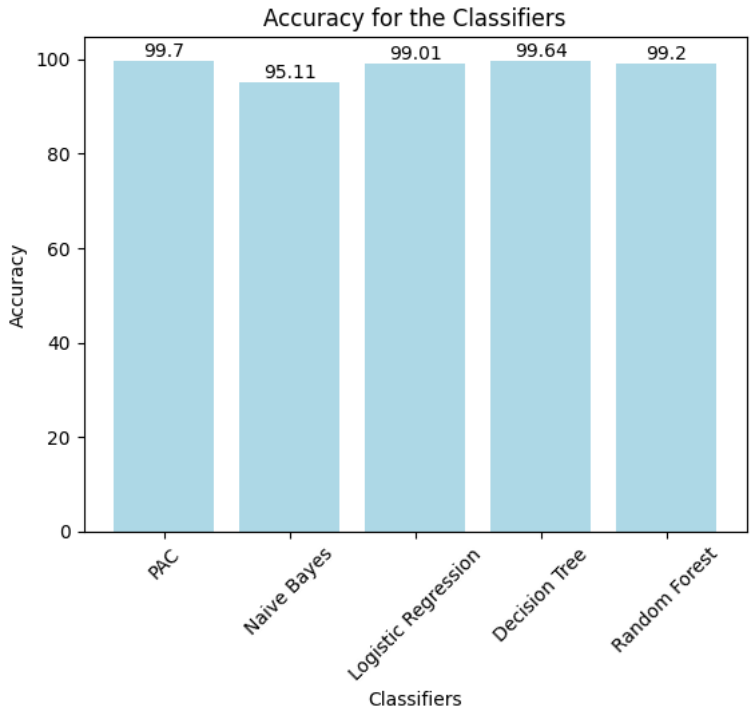
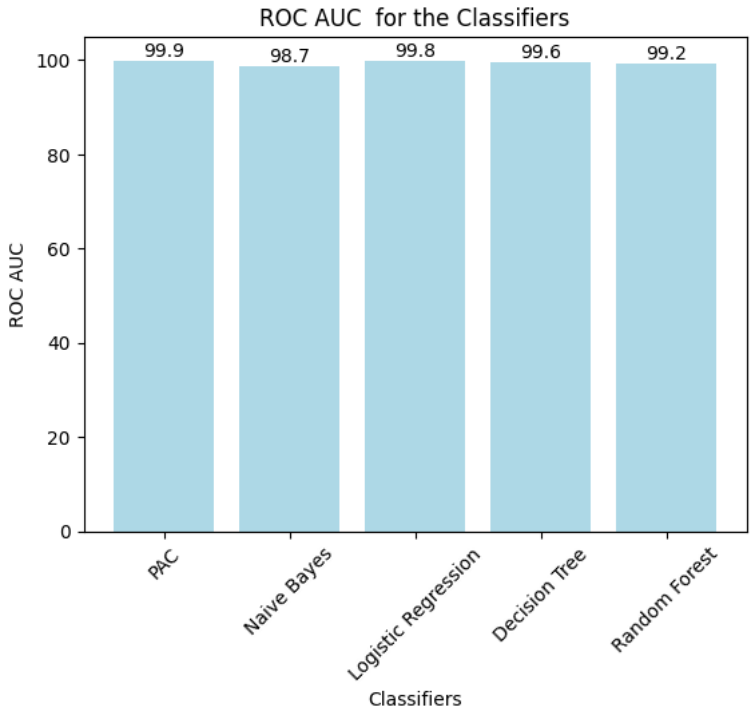
```
##dataset 1
##ACCURACY


import matplotlib.pyplot as plt

# Accuracy data
accuracies = [99.7, 95.11, 99.01, 99.64, 99.2]
classifiers = ['PAC', 'Naive Bayes', 'Logistic Regression', 'Decision Tree', 'Random Forest']

# Plotting the bar plot
plt.bar(classifiers, accuracies, color='lightblue')

# Adding value labels to the bars
for i, v in enumerate(accuracies):
    plt.text(i, v, str(v), ha='center', va='bottom')

# Labeling the plot
plt.title('Accuracy for the Classifiers')
plt.xlabel('Classifiers')
plt.ylabel('Accuracy')

# Rotating the x-axis labels for better readability
plt.xticks(rotation=45)

# Display the plot
plt.show()
```

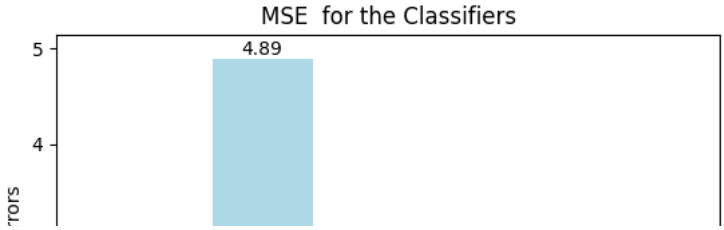



```
##ROC AUC
import matplotlib.pyplot as plt

# ROC AUC data
rocaucies = [99.9, 98.7, 99.8, 99.6, 99.2]
classifiers = ['PAC', 'Naive Bayes', 'Logistic Regression', 'Decision Tree', 'Random Forest']

# Plotting the bar plot
plt.bar(classifiers, rocaucies, color='lightblue')

# Adding value labels to the bars
for i, v in enumerate(rocaucies):
    plt.text(i, v, str(v), ha='center', va='bottom')

# Labeling the plot
plt.title('ROC AUC  for the Classifiers')
plt.xlabel('Classifiers')
plt.ylabel('ROC AUC')

# Rotating the x-axis labels for better readability
plt.xticks(rotation=45)
```

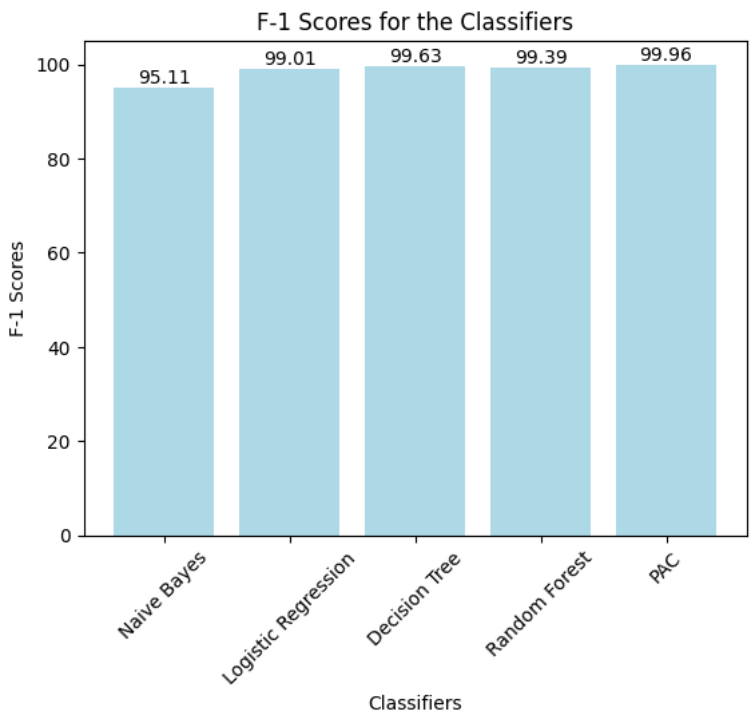
```
# Display the plot
plt.show()
```




```
##MEAN SQUARED ERRORS

import matplotlib.pyplot as plt

# Accuracy data
errors = [0.35,4.89,0.99,0.36,0.78]
classifiers = ['PAC', 'Naive Bayes', 'Logistic Regression', 'Decision Tree', 'Random Forest']

# Plotting the bar plot
plt.bar(classifiers, errors, color='lightblue')

# Adding value labels to the bars
for i, v in enumerate(errors):
    plt.text(i, v, str(v), ha='center', va='bottom')

# Labeling the plot
plt.title('MSE  for the Classifiers')
plt.xlabel('Classifiers')
plt.ylabel('Mean Squared Errors')

# Rotating the x-axis labels for better readability
plt.xticks(rotation=45)

# Display the plot
plt.show()
```

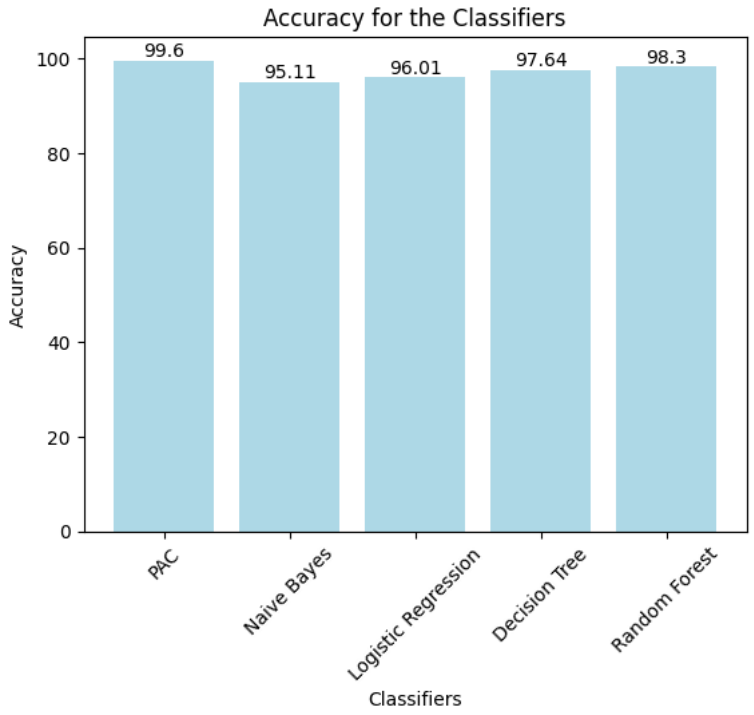



```
#f-1 Scores


import matplotlib.pyplot as plt

# Accuracy data
errors = [95.11,99.01,99.63,99.39,99.96]
classifiers = [ 'Naive Bayes', 'Logistic Regression', 'Decision Tree', 'Random Forest','PAC']

# Plotting the bar plot
plt.bar(classifiers, errors, color='lightblue')

# Adding value labels to the bars
for i, v in enumerate(errors):
    plt.text(i, v, str(v), ha='center', va='bottom')

# Labeling the plot
plt.title('F-1 Scores for the Classifiers')
plt.xlabel('Classifiers')
plt.ylabel('F-1 Scores')

# Rotating the x-axis labels for better readability
plt.xticks(rotation=45)

# Display the plot
plt.show()
```

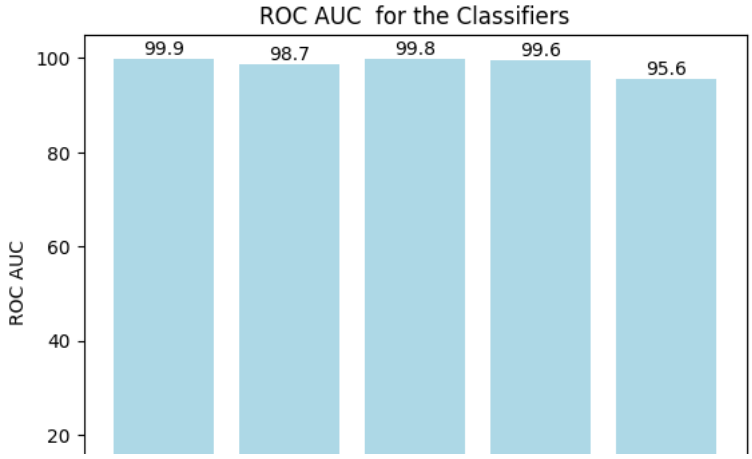



```
##dataset 2
##ACCURACY


import matplotlib.pyplot as plt

# Accuracy data
accuracies = [99.6, 95.11, 96.01, 97.64, 98.3]
classifiers = ['PAC', 'Naive Bayes', 'Logistic Regression', 'Decision Tree', 'Random Forest']

# Plotting the bar plot
plt.bar(classifiers, accuracies, color='lightblue')

# Adding value labels to the bars
```

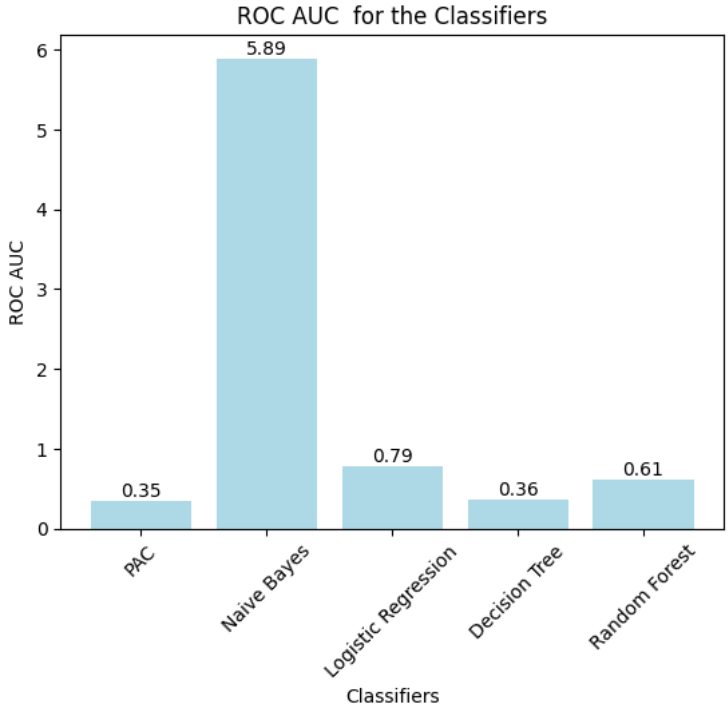
```
for i, v in enumerate(accuracies):
    plt.text(i, v, str(v), ha='center', va='bottom')

# Labeling the plot
plt.title('Accuracy for the Classifiers')
plt.xlabel('Classifiers')
plt.ylabel('Accuracy')

# Rotating the x-axis labels for better readability
plt.xticks(rotation=45)

# Display the plot
plt.show()
```




```
##ROC AUC
import matplotlib.pyplot as plt

# ROC AUC data
rocaucies = [99.9, 98.7, 99.8, 99.6, 95.6]
classifiers = ['PAC', 'Naive Bayes', 'Logistic Regression', 'Decision Tree', 'Random Forest']

# Plotting the bar plot
plt.bar(classifiers, rocaucies, color='lightblue')

# Adding value labels to the bars
for i, v in enumerate(rocaucies):
    plt.text(i, v, str(v), ha='center', va='bottom')

# Labeling the plot
plt.title('ROC AUC  for the Classifiers')
plt.xlabel('Classifiers')
plt.ylabel('ROC AUC')

# Rotating the x-axis labels for better readability
plt.xticks(rotation=45)

# Display the plot
plt.show()
```

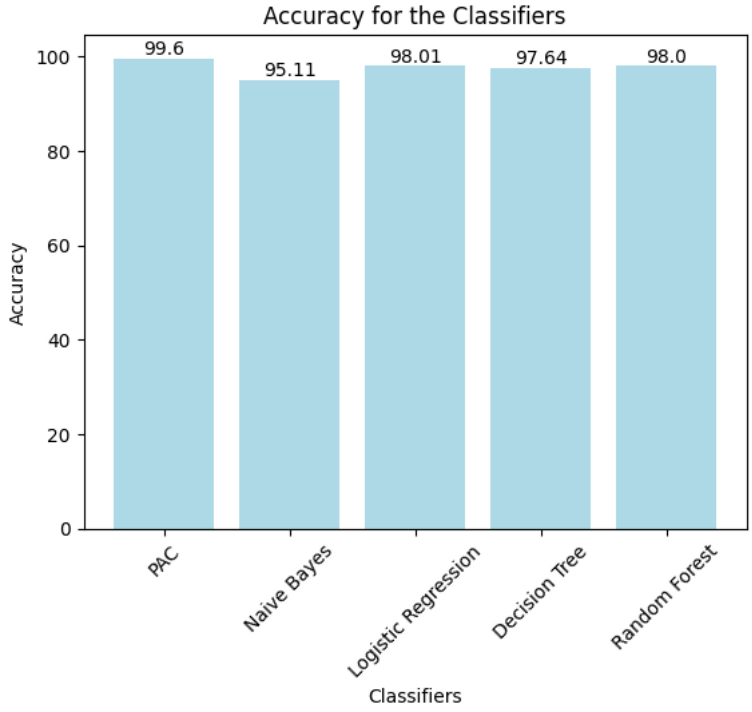



```
##MSE
import matplotlib.pyplot as plt

# MSE  data
rocaucies = [0.35, 5.89, 0.79, 0.36, 0.61]
classifiers = ['PAC', 'Naive Bayes', 'Logistic Regression', 'Decision Tree', 'Random Forest']

# Plotting the bar plot
plt.bar(classifiers, rocaucies, color='lightblue')

# Adding value labels to the bars
for i, v in enumerate(rocaucies):
    plt.text(i, v, str(v), ha='center', va='bottom')

# Labeling the plot
plt.title('ROC AUC  for the Classifiers')
plt.xlabel('Classifiers')
plt.ylabel('ROC AUC')

# Rotating the x-axis labels for better readability
plt.xticks(rotation=45)

# Display the plot
plt.show()
```

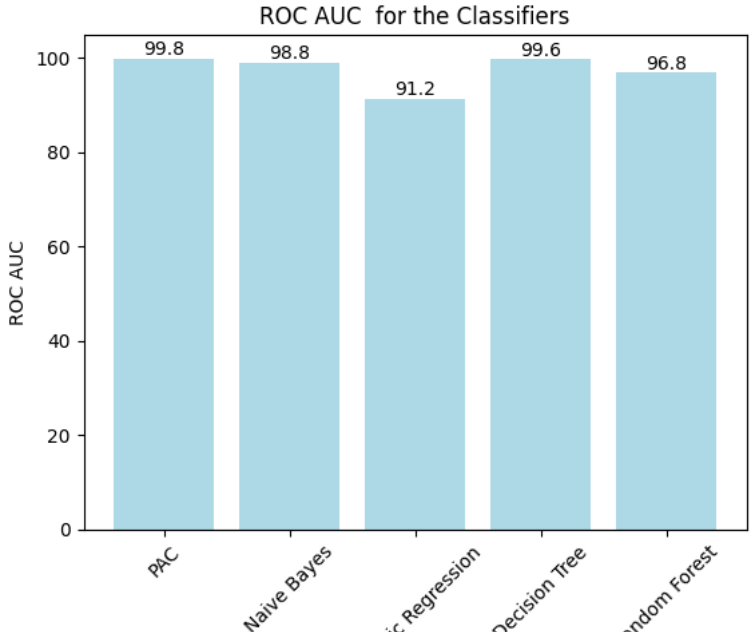



```
##dataset 3
##ACCURACY


import matplotlib.pyplot as plt

# Accuracy data
```

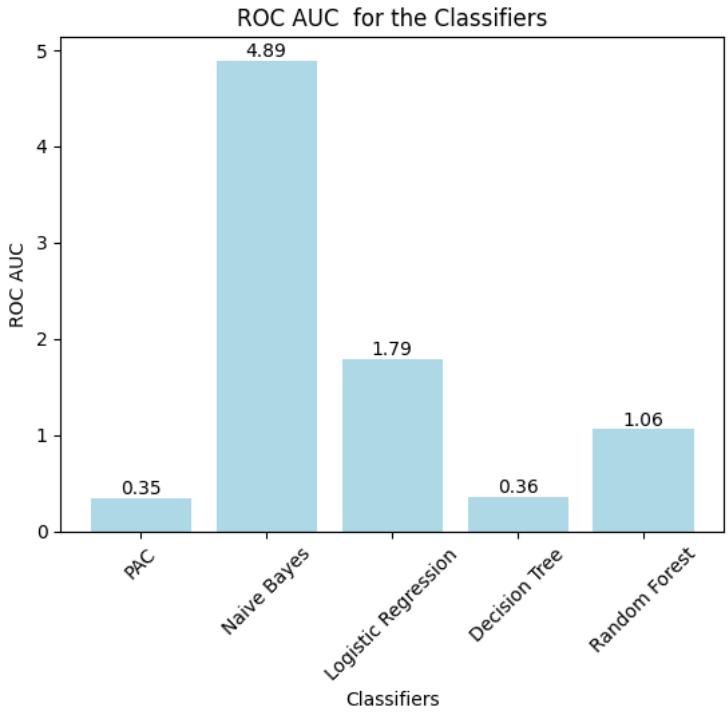
```
accuracies = [99.6, 95.11, 98.01, 97.64, 98.0]
classifiers = ['PAC', 'Naive Bayes', 'Logistic Regression', 'Decision Tree', 'Random Forest']

# Plotting the bar plot
plt.bar(classifiers, accuracies, color='lightblue')

# Adding value labels to the bars
for i, v in enumerate(accuracies):
    plt.text(i, v, str(v), ha='center', va='bottom')

# Labeling the plot
plt.title('Accuracy for the Classifiers')
plt.xlabel('Classifiers')
plt.ylabel('Accuracy')

# Rotating the x-axis labels for better readability
plt.xticks(rotation=45)

# Display the plot
plt.show()
```



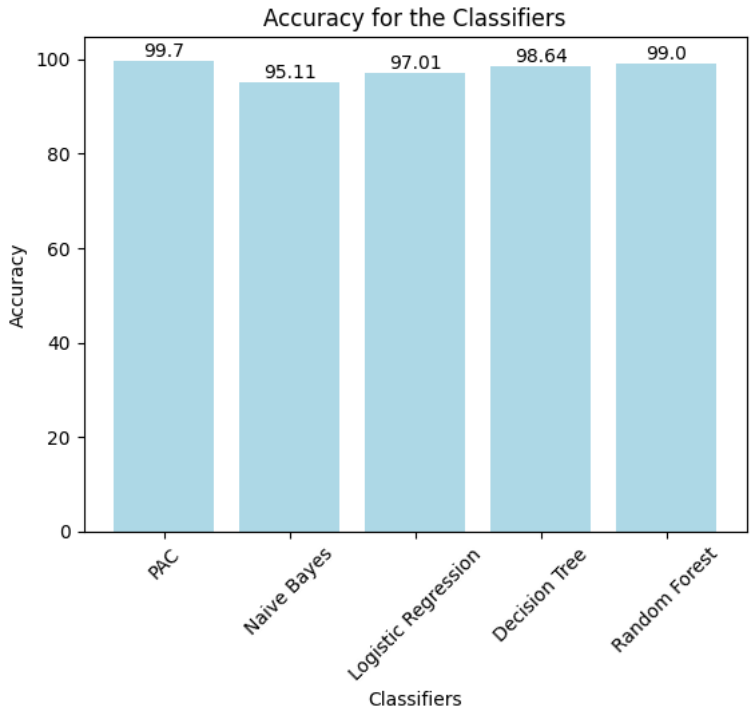

```
##ROC AUC
import matplotlib.pyplot as plt

# ROC AUC data
rocaucies = [99.8, 98.8, 91.2, 99.6, 96.8]
classifiers = ['PAC', 'Naive Bayes', 'Logistic Regression', 'Decision Tree', 'Random Forest']

# Plotting the bar plot
plt.bar(classifiers, rocaucies, color='lightblue')

# Adding value labels to the bars
for i, v in enumerate(rocaucies):
    plt.text(i, v, str(v), ha='center', va='bottom')

# Labeling the plot
plt.title('ROC AUC  for the Classifiers')
plt.xlabel('Classifiers')
plt.ylabel('ROC AUC')

# Rotating the x-axis labels for better readability
plt.xticks(rotation=45)

# Display the plot
plt.show()
```




```
##MSE
import matplotlib.pyplot as plt

# MSE  data
rocaucies = [0.35, 4.89,1.79, 0.36, 1.06]
classifiers = ['PAC', 'Naive Bayes', 'Logistic Regression', 'Decision Tree', 'Random Forest']

# Plotting the bar plot
plt.bar(classifiers, rocaucies, color='lightblue')

# Adding value labels to the bars
for i, v in enumerate(rocaucies):
    plt.text(i, v, str(v), ha='center', va='bottom')

# Labeling the plot
plt.title('ROC AUC  for the Classifiers')
plt.xlabel('Classifiers')
plt.ylabel('ROC AUC')

# Rotating the x-axis labels for better readability
plt.xticks(rotation=45)

# Display the plot
plt.show()
```

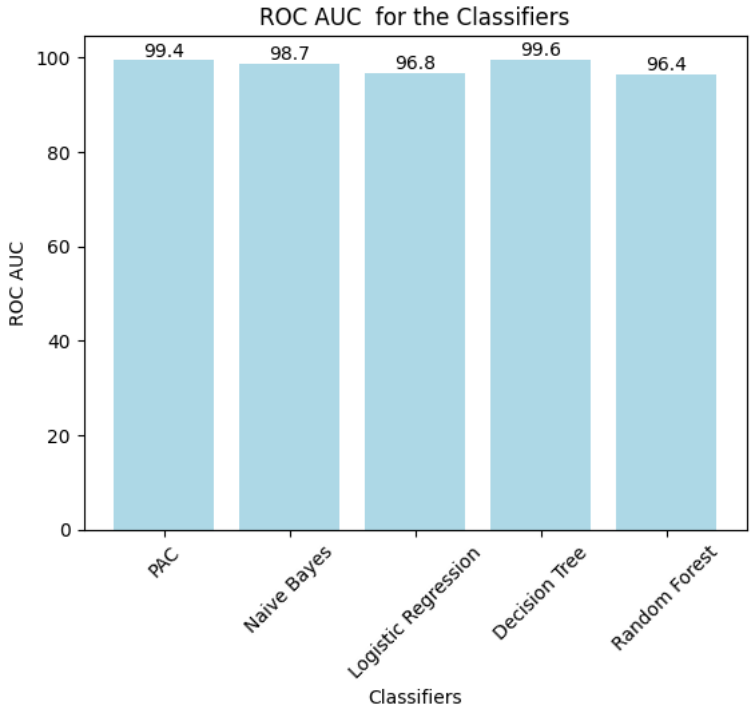


```
##dataset 3
##ACCURACY


import matplotlib.pyplot as plt

# Accuracy data
accuracies = [99.7, 95.11, 97.01, 98.64, 99.]
classifiers = ['PAC', 'Naive Bayes', 'Logistic Regression', 'Decision Tree', 'Random Forest']

# Plotting the bar plot
plt.bar(classifiers, accuracies, color='lightblue')

# Adding value labels to the bars
for i, v in enumerate(accuracies):
    plt.text(i, v, str(v), ha='center', va='bottom')

# Labeling the plot
plt.title('Accuracy for the Classifiers')
plt.xlabel('Classifiers')
plt.ylabel('Accuracy')

# Rotating the x-axis labels for better readability
plt.xticks(rotation=45)

# Display the plot
plt.show()
```

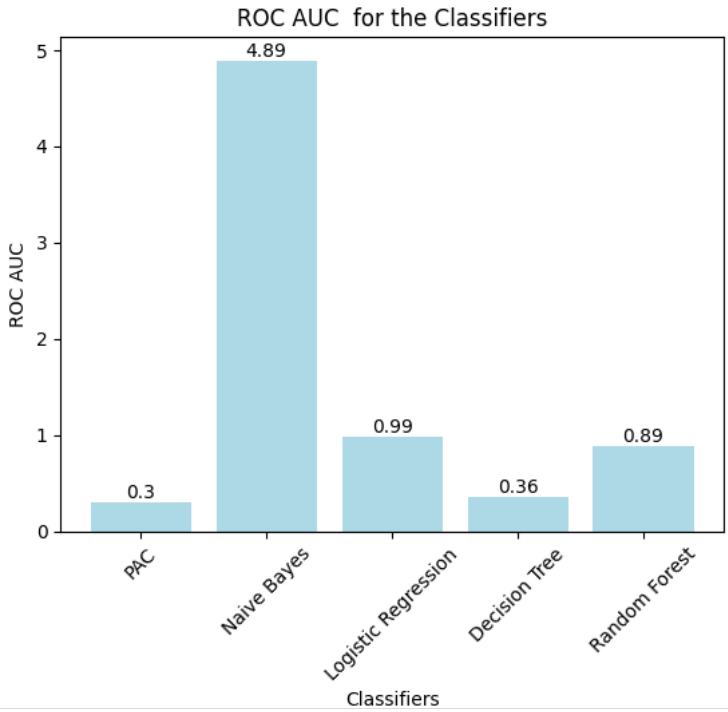



```
##ROC AUC
import matplotlib.pyplot as plt

# ROC AUC data
rocaucies = [99.4, 98.7, 96.8, 99.6, 96.4]
classifiers = ['PAC', 'Naive Bayes', 'Logistic Regression', 'Decision Tree', 'Random Forest']

# Plotting the bar plot
plt.bar(classifiers, rocaucies, color='lightblue')

# Adding value labels to the bars
for i, v in enumerate(rocaucies):
    plt.text(i, v, str(v), ha='center', va='bottom')

# Labeling the plot
plt.title('ROC AUC  for the Classifiers')
plt.xlabel('Classifiers')
plt.ylabel('ROC AUC')

# Rotating the x-axis labels for better readability
plt.xticks(rotation=45)

# Display the plot
```

```
plt.show()
```




```
##MSE
import matplotlib.pyplot as plt

# MSE  data
rocaucies = [0.3, 4.89,0.99, 0.36, 0.89]
classifiers = ['PAC', 'Naive Bayes', 'Logistic Regression', 'Decision Tree', 'Random Forest']

# Plotting the bar plot
plt.bar(classifiers, rocaucies, color='lightblue')

# Adding value labels to the bars
for i, v in enumerate(rocaucies):
    plt.text(i, v, str(v), ha='center', va='bottom')

# Labeling the plot
plt.title('ROC AUC  for the Classifiers')
plt.xlabel('Classifiers')
plt.ylabel('ROC AUC')

# Rotating the x-axis labels for better readability
plt.xticks(rotation=45)

# Display the plot
plt.show()
```


ROC AUC for the Classifiers
ROC AUC
Classifiers
PAC
Naive Bayes
Logistic Regression
Decision Tree
Random Forest
0.3
4.89
0.99
0.36
0.89
0
1
2
3
4
5