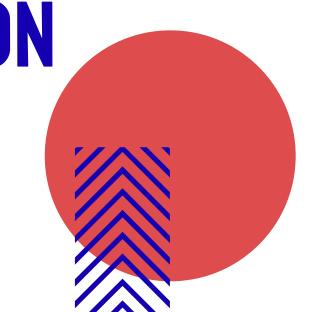
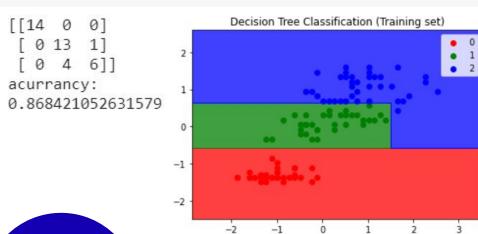


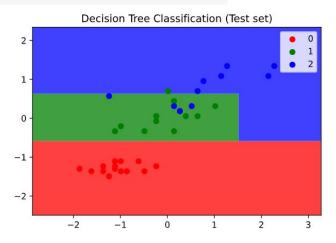
Roberto Lacayo Fabricio Juarez Anesveth Maatens



#### **DECISION TREE IRIS**

```
[ ] # Making the Confusion Matrix Me sirve para saber que tan exactos son los datos
    from sklearn.metrics import confusion_matrix
    cm = confusion_matrix(y_test, y_pred)
    print(cm)
    print("acurrancy:")
    print((14+13+6)/(14+13+4+6+1))
```





### **NAIVE BAYES IRIS**

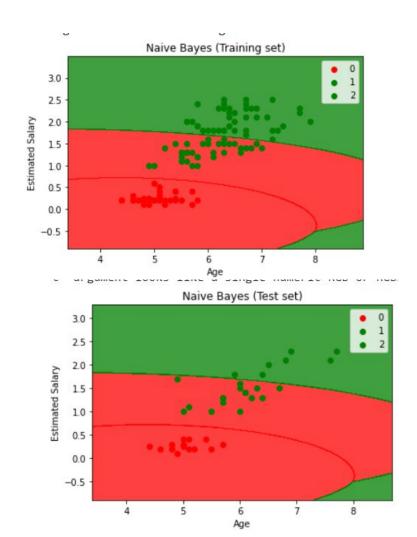
#### Making the Confusion Matrix

```
[ ] from sklearn.metrics import confusion_matrix
    cm = confusion_matrix(y_test, y_pred)
    print(cm)
```

```
[[14 0 0]
[ 0 13 1]
[ 0 4 6]
```

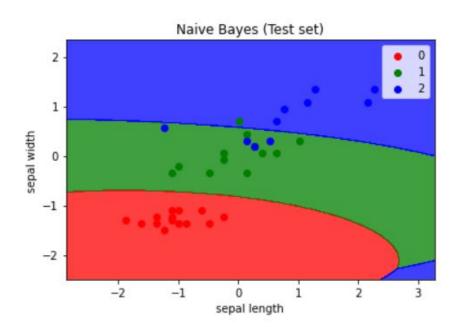
```
[ ] accuracy1 = ((13+14+6)/(14+13+6+4+1))
    print(accuracy1)
    from sklearn.metrics import accuracy_score
    accuracy2 = accuracy_score(y_test, y_pred)
    print(accuracy2)
```

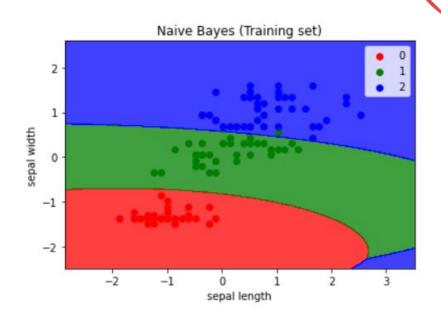
0.868421052631579 0.868421052631579



#### KNN IRIS

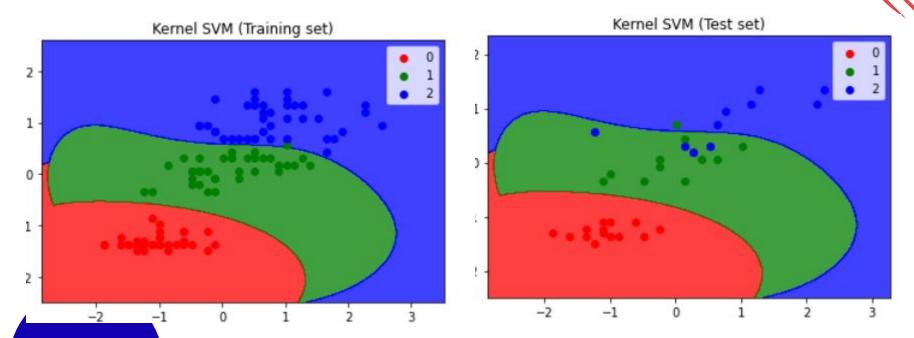
from sklearn.metrics import accuracy\_score
print(accuracy\_score(y\_test, y\_pred))





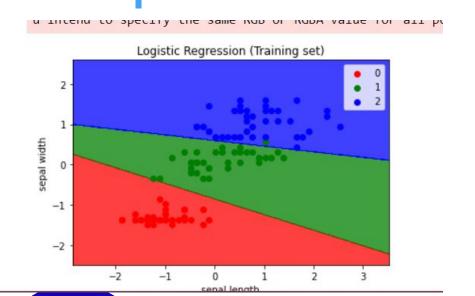
### SUPPORT VECTOR MACHINE IRIS

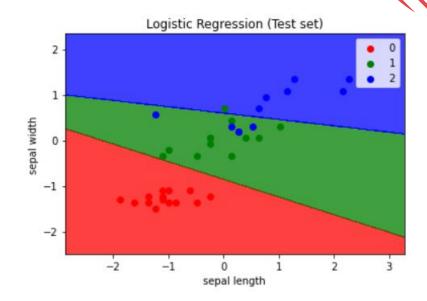
from sklearn.metrics import accuracy\_score
print(accuracy\_score(y\_test, y\_pred))



## **LOGISTIC REGRESSION IRIS**

In [17]: from sklearn.metrics import accuracy\_score
 print(accuracy\_score(y\_test, y\_pred))

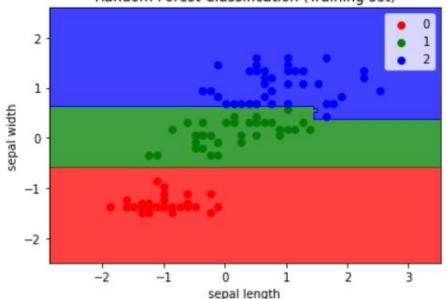


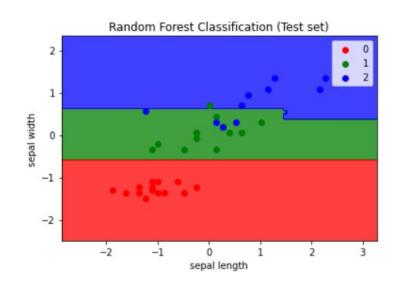


## **RANDOM FOREST CLASSIFIER IRIS**

from sklearn.metrics import accuracy\_score
print(accuracy\_score(y\_test, y\_pred))







#### **NAIVE BAYES SNA**

Making the Confusion Matrix

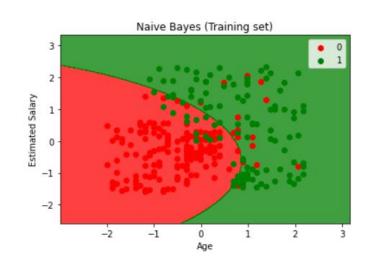
```
[7] from sklearn.metrics import confusion_matrix
cm = confusion_matrix(y_test, y_pred)
```

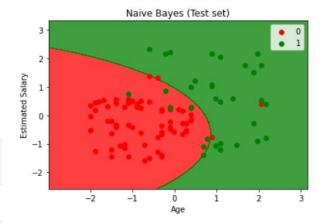
```
[8] print(cm)
```

[[65 3] [7 25]]

```
[10] ac = ((65+25)/(65+25+7+3))
print(ac)
```

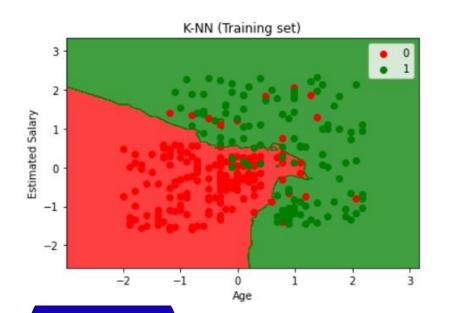


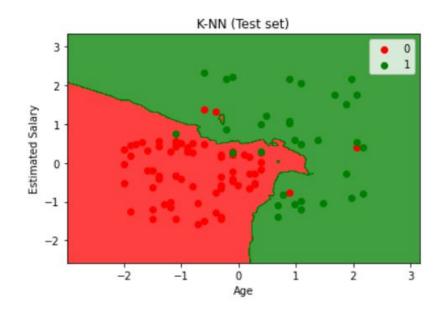




## KNN SNA

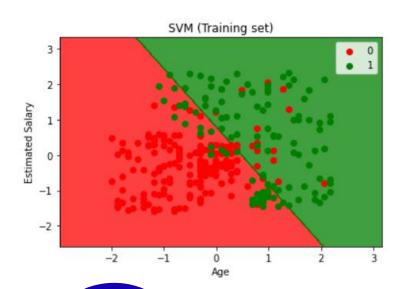
In [11]: from sklearn.metrics import accuracy\_score
 print(accuracy\_score(y\_test, y\_pred))





#### SUPPORT VECTOR MACHINE SNA

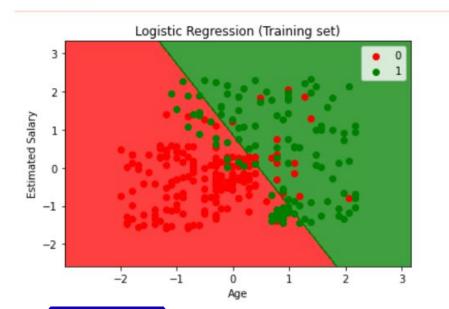
from sklearn.metrics import accuracy\_score
print(accuracy\_score(y\_test, y\_pred))

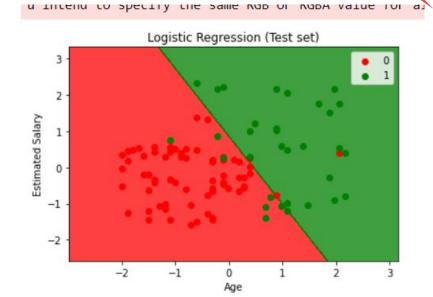




#### **LOGISTIC REGRESSION SNA**

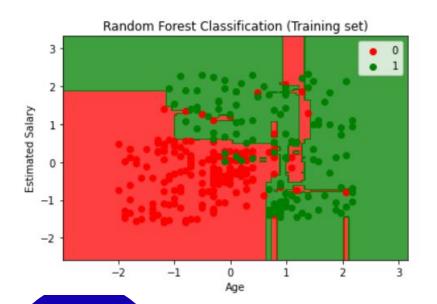
from sklearn.metrics import accuracy\_score
print(accuracy\_score(y\_test, y\_pred))





## **RANDOM FOREST CLASSIFIER SNA**

from sklearn.metrics import accuracy\_score
print(accuracy\_score(y\_test, y\_pred))





# CONCLUSION

KNN obtuvo un 0.93 en el accuracy score en SNA. Poniéndolo ligeramente más alto que los demás. Para el Iris.csv, todos los modelos parecen haber tenido la misma exactitud.

