

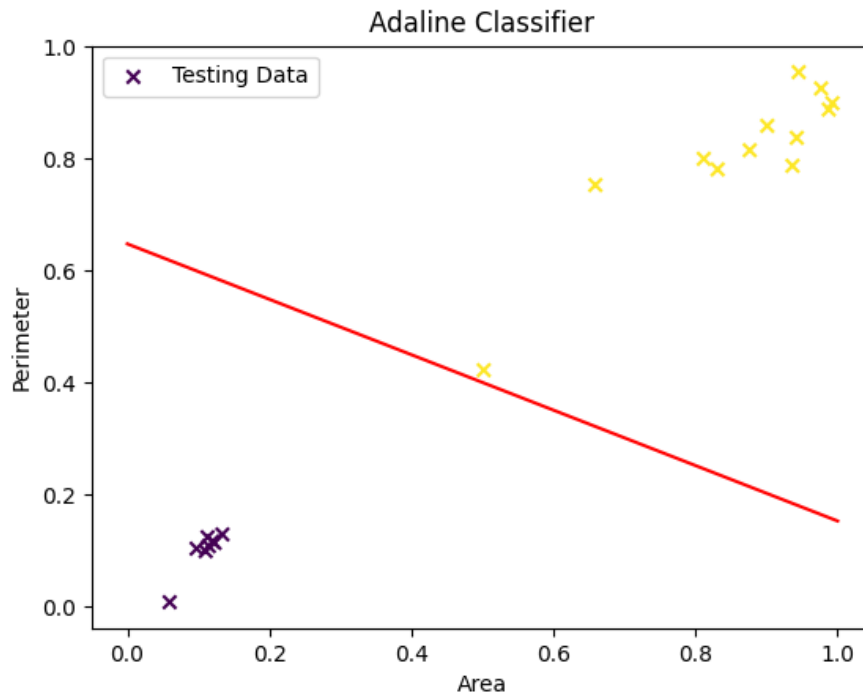
Task 1 neural network

department : SC

20201700953	هايدي اشرف مندي محمد
20201700921	ندي عبدالله مهدي علي
20201700059	احمد عبدالعزيز محمد زكي
20191700866	احمد سيد محمد متولي

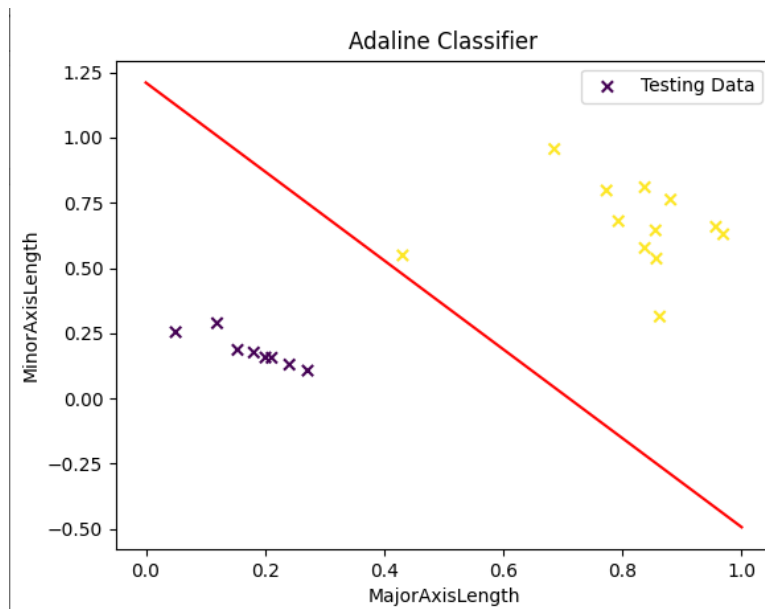
1-adaline algorithm :

- figure 1 (with bias , cali & sira class)



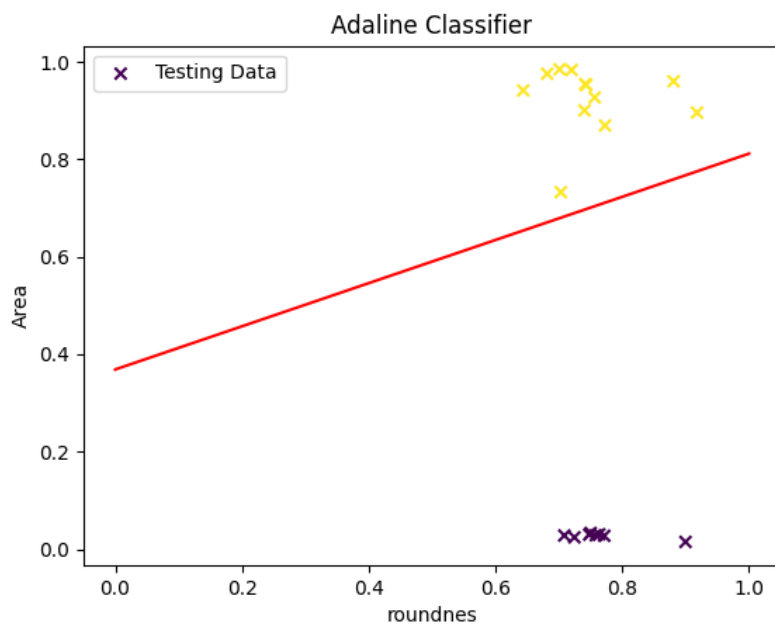
Accuracy = 98%

- figure 2 (with bias , sira & cali classes)



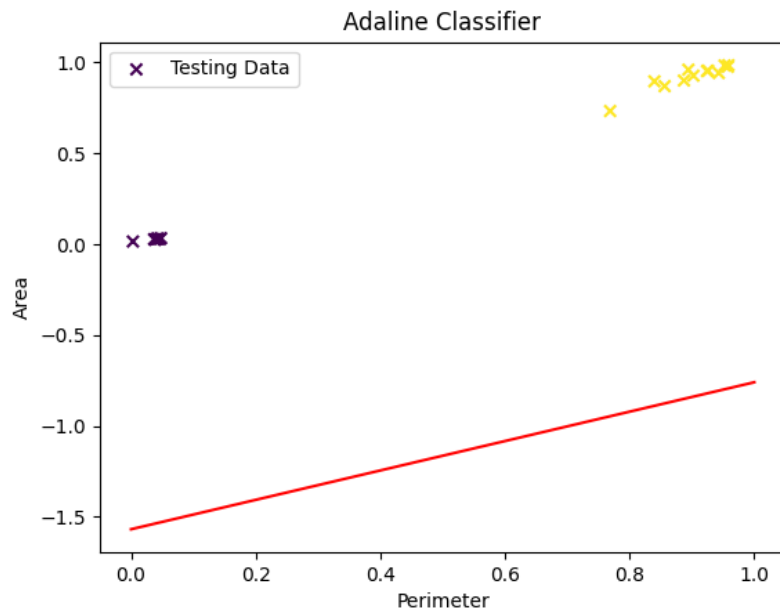
Accuracy = 100%

- figure 3 (with bias , Bombay & sira classes)



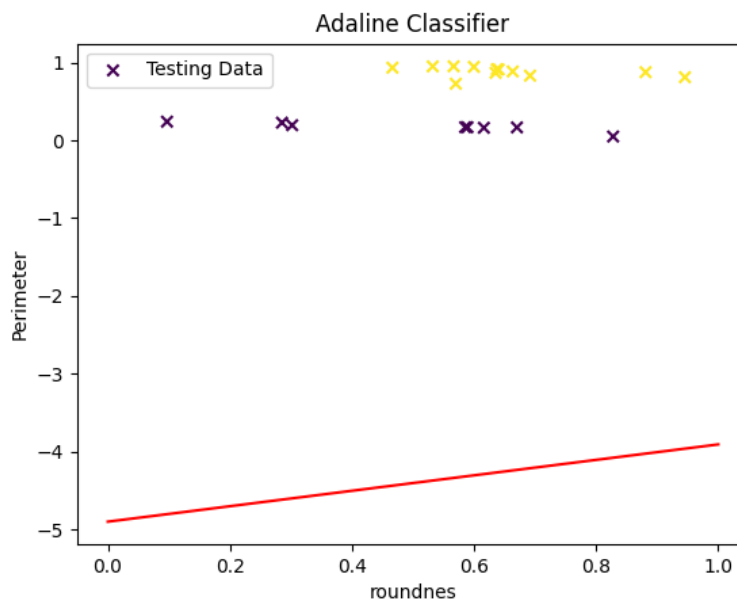
Accuracy = 98%

- figure 4 (without bias , sira & bombai classes)



Accuracy = 57%

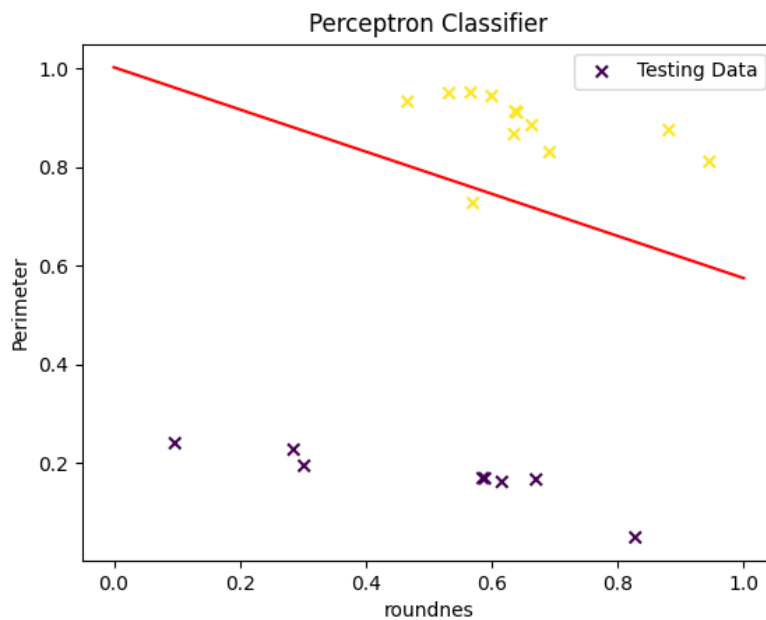
- figure 5 (without bias , cali & bombai classes)



Accuracy=50%

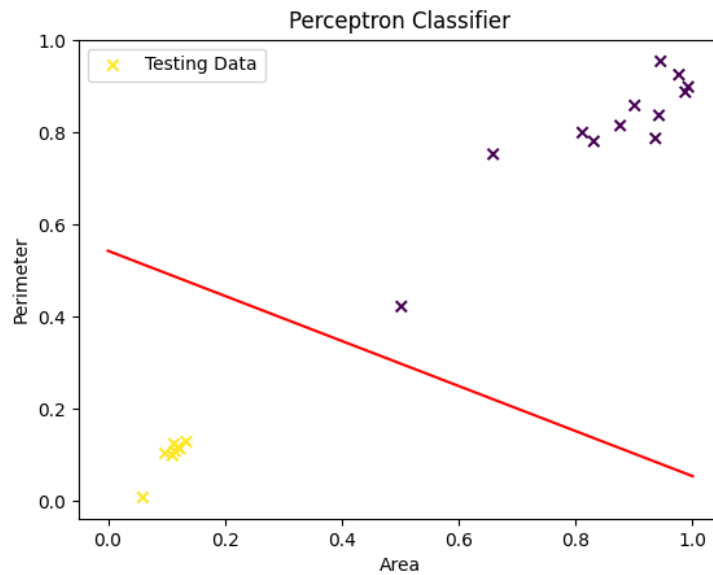
2-perciptron algorithm :

- figure 1 (with bias , cali & bombai classes)



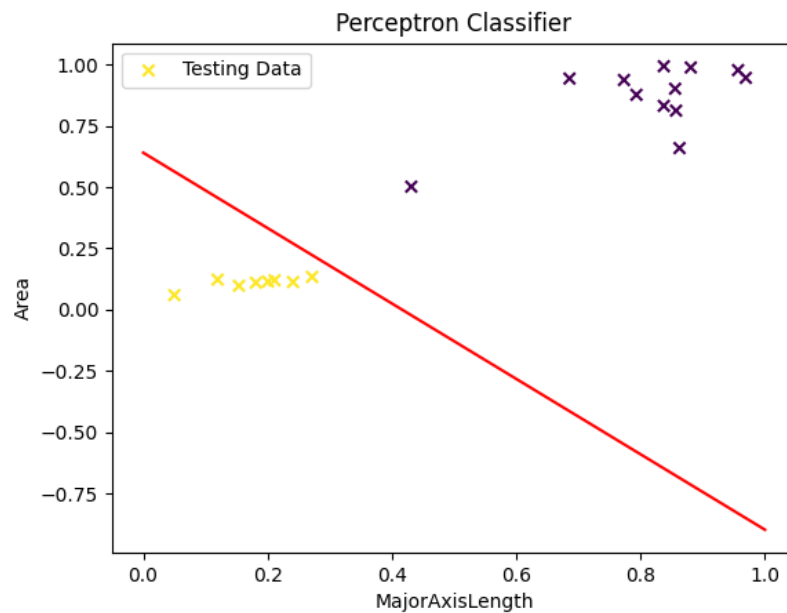
Accuracy=95%

- figure 2 (with bias , cali & bombai classes)



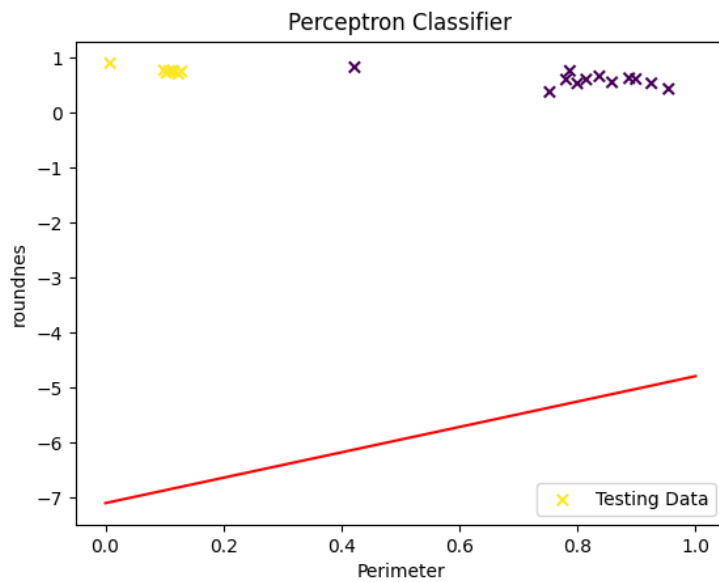
Accuracy= 100%

- figure 3 (with bias , cali & sira classes)



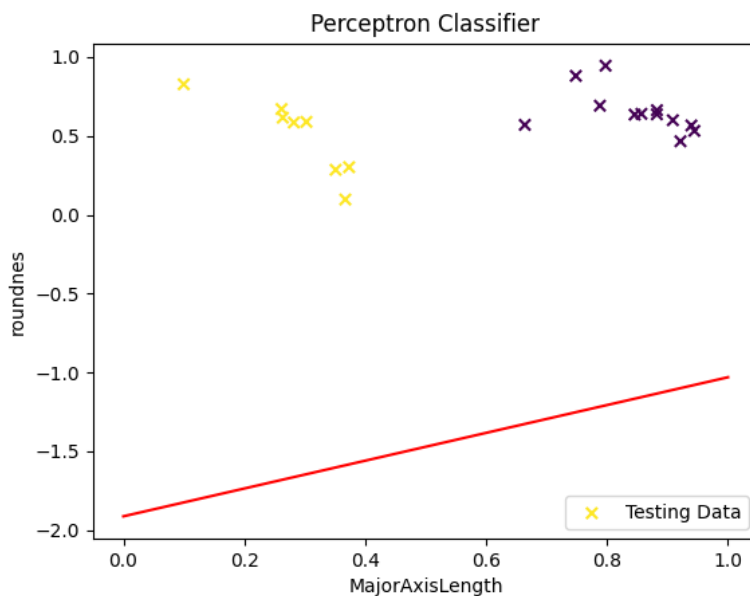
Accuracy=98%

- figure 4 (without bias , cali & bombai classes)



Accuracy=45%

- figure 5 (without bias , cali & sira classes)



Accuracy= 60%

Conclusion:

The highest accuracy achieved in

- Adaline algorithm (with bias , sira & cali classes ,major axis length & minor axis length features)
- Perceptron algorithm (with bias , cali & bombai classes , area & perimeter features)