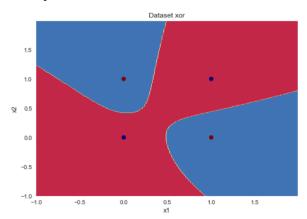
In this video we will compare our model performance on different datasets.
We will see how changing the hidden units affects our result:

Other Datasets

```
from sklearn.datasets import make_moons,make_circles,make_classification
                                                             + we used it in perception
def load_dataset(dataset):
                                                              learning algorithms.
   if dataset=='moons':
       X,Y = make_moons(n_samples=500,noise=0.2,random_state=1) #Perceptron
   elif dataset=='circles':
       X,Y = make_circles(n_samples=500, shuffle=True, noise=0.2, random_state=1, factor=0.2)
   elif dataset=='classification':
       X,Y = make_classification(n_samples=500,n_classes=2,n_features=2,n_informative=2,n_redundant=0,random_state=1)
       #Create XOR Dataset
       X = np.array([[0,0],
                  [0,1],
                  [1,0],
                  [1,1]])
       Y = np.array([0,1,1,0])
   return X,Y
```

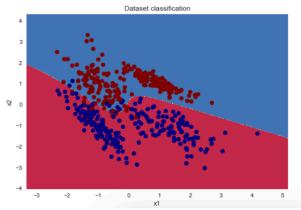
We are using 4 dataSets here.

Training Acc 1.0000



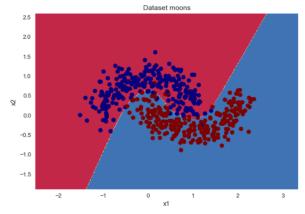
for XOR Dataset Training Accuracy is 100 %.

Training Acc 0.9600



For classification dotaset training accuracy is 96%.

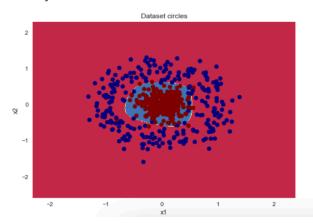
Training Acc 0.9740



For moons dataset, training accuracy is 97%.

(which was about 60% in case of linear classifier perceptron)

Training Acc 0.9640



In circles dataset accuracy is 96 7.

(newrons)
You can change the no. of units in hidden layer and see what impact it has on the training accuracy.

Sets make layers: [8,4]

on changing units in hidden layer

for XOR Dataset variation is more because there are very less training examples from which model can learn. It doesnot know what an appropriate boundary should be but it is able to give 100% accuracy by minimizing the loss.