HW4

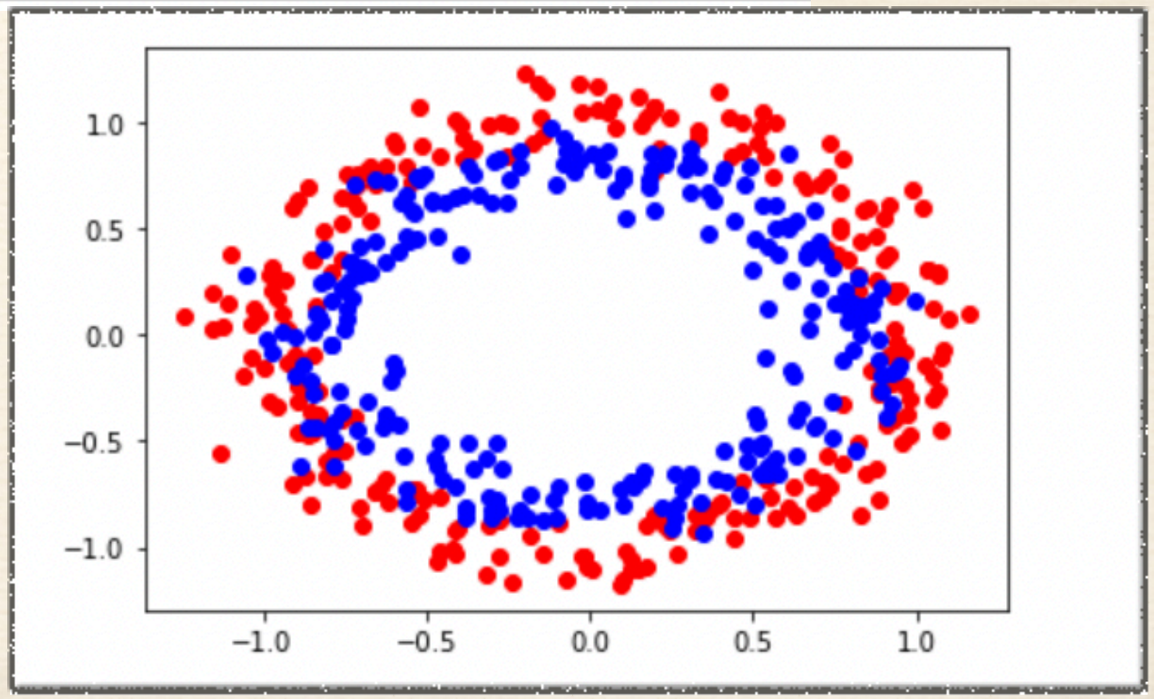
- Dataset:

```
from sklearn.datasets import make_circles

X, y = make_circles(n_samples = 500, noise = 0.1,
                    random_state = 2)
```

```
import matplotlib.pyplot as plt

plt.scatter(X[y==0, 0], X[y==0,1], color = 'red')
plt.scatter(X[y==1, 0], X[y==1,1], color = 'blue')
```



HW4

- 請切割 train: test = 7:3，並利用下列演算法做適當預處理及參數(請自行查閱官方說明)設定後訓練模型、算出正確率及畫出決策區域圖
  - Perceptron
  - Logistic regression
  - Neural Networks