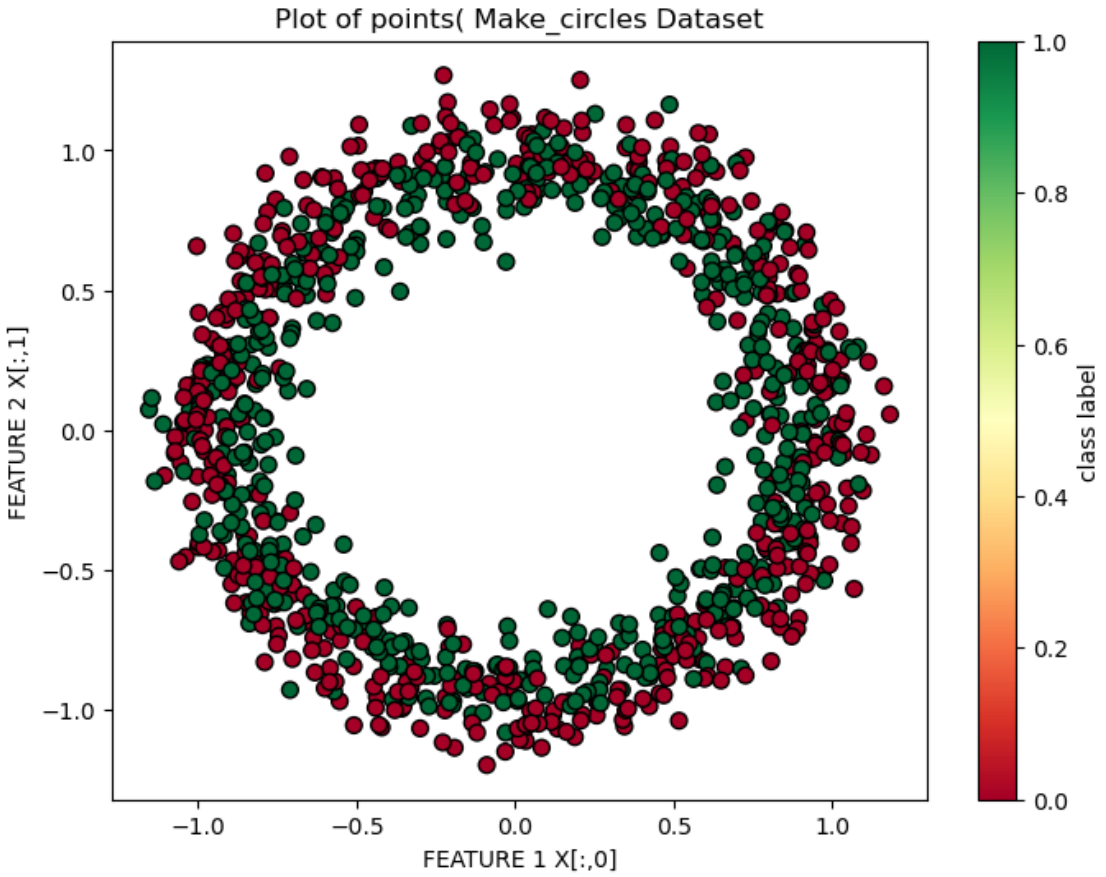
Deep Learning Practice

July 10, 2025

[1]:
```
import numpy as np
import matplotlib.pyplot as plt
from sklearn.datasets import make_circles
```

[8]:
```
#Generating Synthetic Data
X,Y=make_circles(n_samples=1100,noise=0.1,factor=0.9,random_state=42)

#Plotting the points with their labels
plt.figure(figsize=(8,6))
plt.scatter(X[:,0],X[:,1],c=Y,cmap=plt.cm.RdYlGn,edgecolors='k',marker='o',s=50)
plt.xlabel('FEATURE 1 X[:,0]')
plt.ylabel('FEATURE 2 X[:,1]')
plt.title('Plot of points( Make_circles Dataset')
plt.colorbar(label='class label')
plt.show()
```


Plot of points(Make_circles Dataset
FEATURE 2 X[:,1]
FEATURE 1 X[:,0]
class label
1.0
0.5
0.0
−0.5
−1.0
0.8
0.6
0.4
0.2

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