Module 6: Machine Learning Using Python – I

Assignment

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- 1. Consider a random 10 x 2 matrix representing Cartesian coordinates, convert them to Polar coordinates.
- 2. Create random vector of size 50 and replace the maximum value by 0 and minimum value by 100.
- 3. Create below matrix using scipy.

```
0.1
         0.
               1.
                    0.
                         0.
                                        0.1
                                        0.]
0.
                                        0.1
     0.
         1.
               0.
                    2.
                                        0.1
    0.
         0.
              1.
                    0.
                         2.
0.
                                        0.1
         0.
                   1.
                                        1.]
                                   2.
                                        0.]
0.
         0.
                    0.
         0.
                    0.
                              1.
                                        2.]]
```

4. Reproduce given plot by correcting the below code.

```
from pylab import *
n = 256
X = np.linspace(-np.pi,np.pi,n,endpoint=True)
Y = np.sin(2*X)
plot (X, Y+1, color='blue', alpha=1.00)
plot (X, Y-1, color='blue', alpha=1.00)
show()
```

