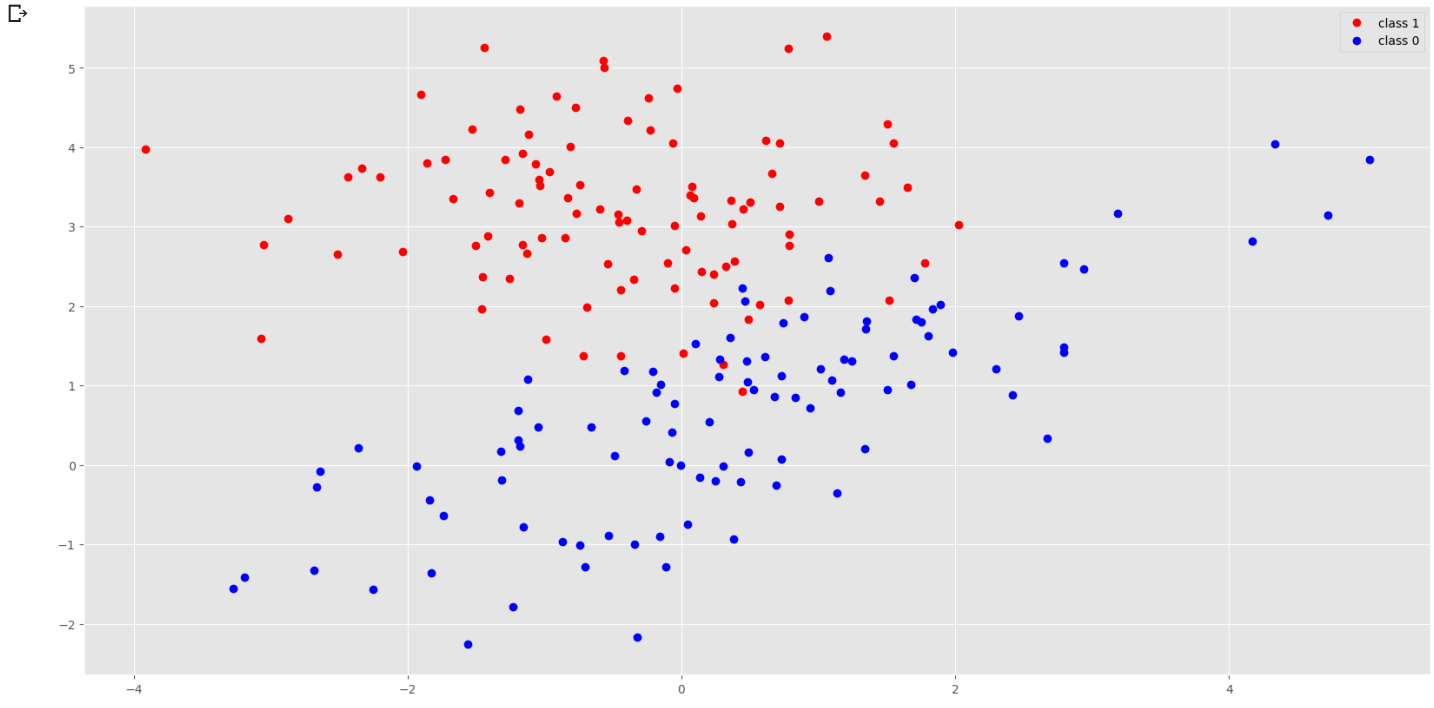
```
import numpy as np
import tensorflow as tf
%matplotlib inline
import matplotlib.pyplot as plt
plt.style.use('ggplot')
import warnings
warnings.filterwarnings('ignore')
plt.rcParams['figure.figsize'] = (20.0, 10.0)
```

```
num_points_each_cluster = 100
mu1 = [-0.4, 3]
covar1 = [[1.3, 0], [0, 1]]
mu2 = [0.5, 0.75]
covar2 = [[2.2, 1.2], [1.8, 2.1]]
X1 = np.random.multivariate_normal(mu1, covar1, num_points_each_cluster)
X2 = np.random.multivariate_normal(mu2, covar2, num_points_each_cluster)
y1 = np.ones(num_points_each_cluster)
y2 = np.zeros(num_points_each_cluster)
```

```
plt.plot(X1[:, 0], X1[:, 1], 'ro', label = 'class 1')
plt.plot(X2[:, 0], X2[:, 1], 'bo', label = 'class 0')
plt.legend(loc = 'best')
plt.show()
```



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