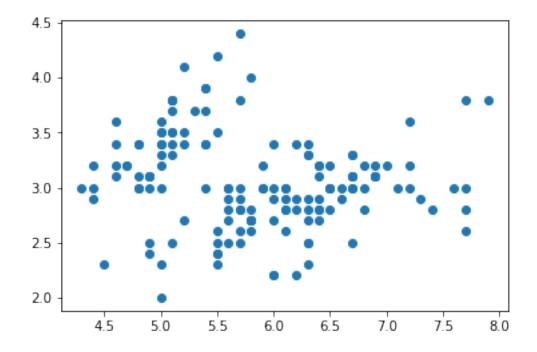
## HW2&3\_question9\_GMM

## March 25, 2021

[3]: <matplotlib.collections.PathCollection at 0x7feb5a0b13d0>



```
[4]: from sklearn.model_selection import train_test_split
    from sklearn import mixture

# create GMM
gmm = mixture.GaussianMixture(n_components=2)

# fit the model on the training data
gmm.fit(iris_attrs)
# make prediction
labels = gmm.predict(iris_attrs)
iris_attrs['labels'] = labels
iris_0 = iris_attrs[iris_attrs['labels']==0]
iris_1 = iris_attrs[iris_attrs['labels']==1]

# get results of clustering by GMM, x: sepal_length y:sepal_width
plt.scatter(iris_0['sepal_length'],iris_0['sepal_width'], color='r')
plt.scatter(iris_1['sepal_length'],iris_1['sepal_width'], color='b')
```

## [4]: <matplotlib.collections.PathCollection at 0x7feb3408b6d0>

