```
# Model sequential
model = Sequential([
    layers.Rescaling(1./255_input_shape=(32_32_3)),
    layers.Conv2D(16, 3, padding='same', activation="sigmoid"),
    layers.Flatten(),
    layers.Dense(10, activation='sigmoid')

# Compiles the model
model.compile(optimizer='adam', loss='sparse_categorical_crossentropy', metrics=['accuracy'])
# train the model
tr_hist = model.fit(data_tr_label, epochs=10, verbose = 1)
# test the model
test_loss, test_acc = model.evaluate(test_data, test_label)
print('\nTest accuracy:', test_acc)
```

My NN accuracy with 10 epochs = 44.6%

My 1-NN classifier accuracy = 35.39%

```
Classifier accuracy: 35.39 %
```

My Bayes classifier with 16x16 image = 43.3%

```
Rescaling train and test data to 16 x 16 ...

Calculating features ...

Making prediction ...

Accuracy with 16 x 16 bayes is: 43.3 %
```

MODEL	ACCURACY
1-NN	35.4%
BAYES	43.3%
NEURAL NETWORK	44.6%