Kaggle Documentation

There are two scripts, one for training (*main.py*) and the other (*predict.py*) for using a saved model to classify the data.

In-depth comments are found directly in the code even tho it's quite simple, load data, train, load data, predict, using a **Keras CNN** model:

```
    model = tf.keras.models.Sequential([
        tf.keras.layers.Conv2D(32, (3, 3), activation="relu",
input_shape=(IMG_WIDTH,IMG_HEIGHT,3)),
        tf.keras.layers.MaxPooling2D(pool_size=(2, 2)),
        tf.keras.layers.Conv2D(32, (3, 3), activation="relu"),
        tf.keras.layers.MaxPooling2D(pool_size=(2, 2)),
        tf.keras.layers.Flatten(),
        tf.keras.layers.Dense(128, activation="relu"),
        tf.keras.layers.Dropout(0.5),
        tf.keras.layers.Dense(NUM_CATEGORIES, activation="softmax")
    ])
```

Model built by weaving the Conv layer and MaxPooling followed by the 2 Dense layers using mainly relu activation function and a softmax for the last layer.