

The test accuracy you achieve using your CNN

Accuracy on test dataset is 0.987

List of five activation functions:

Relu, hyperbolic tangent, sigmoid, sign, linear

What is adam?

It is an optimization algorithm that it is adaptive estimation of first-order and second-order moments.e.i Is combining both momentum and rmsprop

What sparse_categorical_crossentropy?

loss function used to indicate how good is the prediction, usually used for multi-class classification tasks and it compares the ground truth distribution to the estimated distribution

What does "epoch" mean

We consider as an epoch the cycle where the whole training dataset was used to train the model

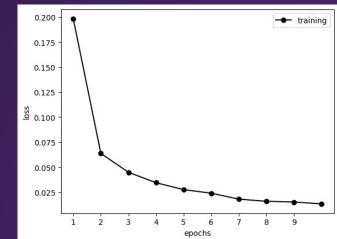
```
model = tf.keras.Sequential()

model.add(tf.keras.layers.Conv2D(8, (3, 3), activation='relu', padding='same', input_shape=(28, 28, 1)))
model.add(tf.keras.layers.MaxPooling2D((2, 2)))

model.add(tf.keras.layers.Conv2D(16, (3, 3), activation='relu', padding='same'))
model.add(tf.keras.layers.MaxPooling2D((2, 2)))

model.add(tf.keras.layers.Conv2D(32, (3, 3), activation='relu', padding='same'))
model.add(tf.keras.layers.Flatten())

model.add(tf.keras.layers.Dense(128, activation='relu'))
model.add(tf.keras.layers.Dense(128, activation='relu'))
model.add(tf.keras.layers.Dense(10, activation='softmax'))
model.add(tf.keras.layers.Dense(10, activation='softmax'))
model.summary()
```



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