Syntax For Most Common And Used Tensorflow Keras Layers

**1) Input ()**

tf.keras.Input(  
    shape=None,  
    batch\_size=None,  
    name=None,  
    dtype=None,  
    sparse=None,  
    tensor=None,  
    ragged=None,  
    type\_spec=None,  
    \*\*kwargs  
)

**2) Dense ()**

tf.keras.layers.Dense(

units,

activation=None,

use\_bias=True,

kernel\_initializer="glorot\_uniform",

bias\_initializer="zeros",

kernel\_regularizer=None,

bias\_regularizer=None,

activity\_regularizer=None,

kernel\_constraint=None,

bias\_constraint=None,

\*\*kwargs

)

**3) Activation**

**4) Dropout ()**

tf.keras.layers.Dropout(rate, noise\_shape=None, seed=None, \*\*kwargs)

**5) BatchNormalization ()**

tf.keras.layers.BatchNormalization(

axis=-1,

momentum=0.99,

epsilon=0.001,

center=True,

scale=True,

beta\_initializer="zeros",

gamma\_initializer="ones",

moving\_mean\_initializer="zeros",

moving\_variance\_initializer="ones",

beta\_regularizer=None,

gamma\_regularizer=None,

beta\_constraint=None,

gamma\_constraint=None,

\*\*kwargs

)

**6) Conv2D ()**

tf.keras.layers.Conv2D(

filters,

kernel\_size,

strides=(1, 1),

padding="valid",

data\_format=None,

dilation\_rate=(1, 1),

groups=1,

activation=None,

use\_bias=True,

kernel\_initializer="glorot\_uniform",

bias\_initializer="zeros",

kernel\_regularizer=None,

bias\_regularizer=None,

activity\_regularizer=None,

kernel\_constraint=None,

bias\_constraint=None,

\*\*kwargs

)

**7) MaxPooling2D ()**

tf.keras.layers.MaxPooling2D(

pool\_size=(2, 2), strides=None, padding="valid", data\_format=None, \*\*kwargs

)

**8) Flatten ()**

tf.keras.layers.Flatten(data\_format=None, \*\*kwargs)

**9) LSTM ()**

tf.keras.layers.LSTM(

units,

activation="tanh",

recurrent\_activation="sigmoid",

use\_bias=True,

kernel\_initializer="glorot\_uniform",

recurrent\_initializer="orthogonal",

bias\_initializer="zeros",

unit\_forget\_bias=True,

kernel\_regularizer=None,

recurrent\_regularizer=None,

bias\_regularizer=None,

activity\_regularizer=None,

kernel\_constraint=None,

recurrent\_constraint=None,

bias\_constraint=None,

dropout=0.0,

recurrent\_dropout=0.0,

return\_sequences=False,

return\_state=False,

go\_backwards=False,

stateful=False,

time\_major=False,

unroll=False,

\*\*kwargs

)

**10) Embedding ()**

tf.keras.layers.Embedding(

input\_dim,

output\_dim,

embeddings\_initializer="uniform",

embeddings\_regularizer=None,

activity\_regularizer=None,

embeddings\_constraint=None,

mask\_zero=False,

input\_length=None,

\*\*kwargs

)