**Modelo**

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Layer (type) Output Shape Param #

=================================================================

conv2d\_3 (Conv2D) (None, 126, 126, 64) 1792

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max\_pooling2d\_3 (MaxPooling2 (None, 63, 63, 64) 0

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conv2d\_4 (Conv2D) (None, 61, 61, 64) 36928

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max\_pooling2d\_4 (MaxPooling2 (None, 30, 30, 64) 0

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flatten\_2 (Flatten) (None, 57600) 0

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dense\_3 (Dense) (None, 64) 3686464

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dropout\_2 (Dropout) (None, 64) 0

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dense\_4 (Dense) (None, 36) 2340

=================================================================

Total params: 3,727,524

Trainable params: 3,727,524

Non-trainable params: 0

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None

**Resultados del Entrenamiento:**

*(se hace en varias ejecuciones grabando el modelo)*

***1ra ejecución)*** *5 épocas -- arranca de cero*

Epoch 1/5

/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 25 could not be retrieved. It could be because a worker has died.

UserWarning)

1/10 [==>...........................] - ETA: 22:22 - loss: 3.6369 - acc: 0.0320/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 58 could not be retrieved. It could be because a worker has died.

UserWarning)

2/10 [=====>........................] - ETA: 19:10 - loss: 6.6840 - acc: 0.0320/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 15 could not be retrieved. It could be because a worker has died.

UserWarning)

3/10 [========>.....................] - ETA: 16:34 - loss: 5.6539 - acc: 0.0287/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 2 could not be retrieved. It could be because a worker has died.

UserWarning)

4/10 [===========>..................] - ETA: 14:05 - loss: 5.1362 - acc: 0.0275/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 41 could not be retrieved. It could be because a worker has died.

UserWarning)

5/10 [==============>...............] - ETA: 11:44 - loss: 4.8231 - acc: 0.0300/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 11 could not be retrieved. It could be because a worker has died.

UserWarning)

6/10 [=================>............] - ETA: 9:18 - loss: 4.6138 - acc: 0.0297 /usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 34 could not be retrieved. It could be because a worker has died.

UserWarning)

7/10 [====================>.........] - ETA: 6:58 - loss: 4.4623 - acc: 0.0317/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 3 could not be retrieved. It could be because a worker has died.

UserWarning)

8/10 [=======================>......] - ETA: 4:39 - loss: 4.3478 - acc: 0.0333/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 13 could not be retrieved. It could be because a worker has died.

UserWarning)

9/10 [==========================>...] - ETA: 2:19 - loss: 4.2576 - acc: 0.0356/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 51 could not be retrieved. It could be because a worker has died.

UserWarning)

10/10 [==============================] - 1397s 140s/step - loss: 4.1836 - acc: 0.0358 - val\_loss: 3.4375 - val\_acc: 0.1340

Epoch 00001: loss improved from inf to 4.18361, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 2/5

/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 12 could not be retrieved. It could be because a worker has died.

UserWarning)

1/10 [==>...........................] - ETA: 20:39 - loss: 3.4752 - acc: 0.0600/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 14 could not be retrieved. It could be because a worker has died.

UserWarning)

2/10 [=====>........................] - ETA: 18:28 - loss: 3.4961 - acc: 0.0480/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 23 could not be retrieved. It could be because a worker has died.

UserWarning)

3/10 [========>.....................] - ETA: 15:58 - loss: 3.4972 - acc: 0.0553/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 55 could not be retrieved. It could be because a worker has died.

UserWarning)

4/10 [===========>..................] - ETA: 13:39 - loss: 3.4797 - acc: 0.0655/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 32 could not be retrieved. It could be because a worker has died.

UserWarning)

5/10 [==============>...............] - ETA: 11:26 - loss: 3.4502 - acc: 0.0716/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 29 could not be retrieved. It could be because a worker has died.

UserWarning)

6/10 [=================>............] - ETA: 9:09 - loss: 3.4361 - acc: 0.0723 /usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 8 could not be retrieved. It could be because a worker has died.

UserWarning)

7/10 [====================>.........] - ETA: 6:55 - loss: 3.4306 - acc: 0.0740/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 0 could not be retrieved. It could be because a worker has died.

UserWarning)

8/10 [=======================>......] - ETA: 4:38 - loss: 3.4158 - acc: 0.0755/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 31 could not be retrieved. It could be because a worker has died.

UserWarning)

9/10 [==========================>...] - ETA: 2:20 - loss: 3.3922 - acc: 0.0818/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 43 could not be retrieved. It could be because a worker has died.

UserWarning)

10/10 [==============================] - 1408s 141s/step - loss: 3.3700 - acc: 0.0858 - val\_loss: 2.9927 - val\_acc: 0.2388

Epoch 00002: loss improved from 4.18361 to 3.37001, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 3/5

/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 7 could not be retrieved. It could be because a worker has died.

UserWarning)

1/10 [==>...........................] - ETA: 21:38 - loss: 3.1788 - acc: 0.1300/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 33 could not be retrieved. It could be because a worker has died.

UserWarning)

2/10 [=====>........................] - ETA: 18:55 - loss: 3.1452 - acc: 0.1320/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 1 could not be retrieved. It could be because a worker has died.

UserWarning)

3/10 [========>.....................] - ETA: 16:34 - loss: 3.1434 - acc: 0.1307/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 48 could not be retrieved. It could be because a worker has died.

UserWarning)

4/10 [===========>..................] - ETA: 14:14 - loss: 3.1510 - acc: 0.1380/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 50 could not be retrieved. It could be because a worker has died.

UserWarning)

5/10 [==============>...............] - ETA: 11:51 - loss: 3.1341 - acc: 0.1408/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 49 could not be retrieved. It could be because a worker has died.

UserWarning)

6/10 [=================>............] - ETA: 9:27 - loss: 3.1316 - acc: 0.1397 /usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 28 could not be retrieved. It could be because a worker has died.

UserWarning)

7/10 [====================>.........] - ETA: 7:06 - loss: 3.1113 - acc: 0.1454/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 38 could not be retrieved. It could be because a worker has died.

UserWarning)

8/10 [=======================>......] - ETA: 4:51 - loss: 3.0891 - acc: 0.1490/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 30 could not be retrieved. It could be because a worker has died.

UserWarning)

9/10 [==========================>...] - ETA: 2:25 - loss: 3.0627 - acc: 0.1556/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 26 could not be retrieved. It could be because a worker has died.

UserWarning)

10/10 [==============================] - 1454s 145s/step - loss: 3.0557 - acc: 0.1572 - val\_loss: 2.4168 - val\_acc: 0.4374

Epoch 00003: loss improved from 3.37001 to 3.05570, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 4/5

/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 40 could not be retrieved. It could be because a worker has died.

UserWarning)

2/10 [=====>........................] - ETA: 9:54 - loss: 2.8041 - acc: 0.2070 /usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 6 could not be retrieved. It could be because a worker has died.

UserWarning)

3/10 [========>.....................] - ETA: 11:33 - loss: 2.8048 - acc: 0.2087/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 22 could not be retrieved. It could be because a worker has died.

UserWarning)

4/10 [===========>..................] - ETA: 11:20 - loss: 2.7799 - acc: 0.2185/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 18 could not be retrieved. It could be because a worker has died.

UserWarning)

5/10 [==============>...............] - ETA: 9:57 - loss: 2.7481 - acc: 0.2276 /usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 53 could not be retrieved. It could be because a worker has died.

UserWarning)

7/10 [====================>.........] - ETA: 5:19 - loss: 2.7471 - acc: 0.2300/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 56 could not be retrieved. It could be because a worker has died.

UserWarning)

8/10 [=======================>......] - ETA: 3:42 - loss: 2.7261 - acc: 0.2357/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 21 could not be retrieved. It could be because a worker has died.

UserWarning)

9/10 [==========================>...] - ETA: 1:55 - loss: 2.7065 - acc: 0.2424/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 57 could not be retrieved. It could be because a worker has died.

UserWarning)

10/10 [==============================] - 1192s 119s/step - loss: 2.6825 - acc: 0.2498 - val\_loss: 1.9443 - val\_acc: 0.5872

Epoch 00004: loss improved from 3.05570 to 2.68249, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 5/5

/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 42 could not be retrieved. It could be because a worker has died.

UserWarning)

1/10 [==>...........................] - ETA: 22:33 - loss: 2.5428 - acc: 0.2660/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 16 could not be retrieved. It could be because a worker has died.

UserWarning)

2/10 [=====>........................] - ETA: 19:40 - loss: 2.5875 - acc: 0.2660/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 47 could not be retrieved. It could be because a worker has died.

UserWarning)

3/10 [========>.....................] - ETA: 17:00 - loss: 2.6012 - acc: 0.2667/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 4 could not be retrieved. It could be because a worker has died.

UserWarning)

4/10 [===========>..................] - ETA: 14:36 - loss: 2.5685 - acc: 0.2815/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 39 could not be retrieved. It could be because a worker has died.

UserWarning)

5/10 [==============>...............] - ETA: 12:04 - loss: 2.5348 - acc: 0.2928/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 27 could not be retrieved. It could be because a worker has died.

UserWarning)

6/10 [=================>............] - ETA: 9:40 - loss: 2.5243 - acc: 0.2947 /usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 5 could not be retrieved. It could be because a worker has died.

UserWarning)

7/10 [====================>.........] - ETA: 7:15 - loss: 2.5102 - acc: 0.2989/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 36 could not be retrieved. It could be because a worker has died.

UserWarning)

8/10 [=======================>......] - ETA: 4:49 - loss: 2.4912 - acc: 0.3012/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 46 could not be retrieved. It could be because a worker has died.

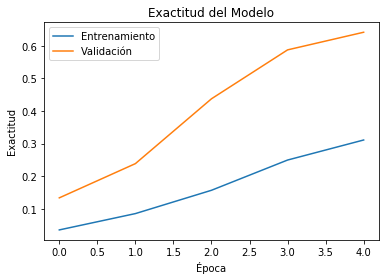
UserWarning)

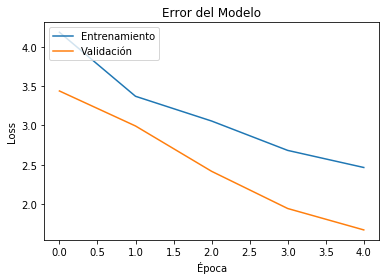
9/10 [==========================>...] - ETA: 2:24 - loss: 2.4807 - acc: 0.3040/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 35 could not be retrieved. It could be because a worker has died.

UserWarning)

10/10 [==============================] - 1440s 144s/step - loss: 2.4653 - acc: 0.3112 - val\_loss: 1.6722 - val\_acc: 0.6412

Epoch 00005: loss improved from 2.68249 to 2.46533, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5





***2da ejecución)*** *6 épocas -- continúa del anterior, ya ha mejorado algo*

*Epoch 1/10*

*/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 34 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*2/10 [=====>........................] - ETA: 15:54 - loss: 2.1970 - acc: 0.3904/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 48 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*3/10 [========>.....................] - ETA: 17:16 - loss: 2.2991 - acc: 0.3709/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 27 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*4/10 [===========>..................] - ETA: 16:35 - loss: 2.3483 - acc: 0.3547/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 39 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*5/10 [==============>...............] - ETA: 14:32 - loss: 2.3345 - acc: 0.3554/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 45 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*6/10 [=================>............] - ETA: 11:56 - loss: 2.2965 - acc: 0.3605/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 16 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*7/10 [====================>.........] - ETA: 9:07 - loss: 2.2907 - acc: 0.3621 /usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 56 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*8/10 [=======================>......] - ETA: 6:08 - loss: 2.2978 - acc: 0.3634/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 52 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*9/10 [==========================>...] - ETA: 3:05 - loss: 2.2903 - acc: 0.3654/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 44 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*10/10 [==============================] - 1874s 187s/step - loss: 2.2835 - acc: 0.3664 - val\_loss: 1.4144 - val\_acc: 0.6960*

*Epoch 00001: loss improved from inf to 2.29312, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5*

*Epoch 2/10*

*/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 4 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*1/10 [==>...........................] - ETA: 30:15 - loss: 2.2193 - acc: 0.3860/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 1 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*2/10 [=====>........................] - ETA: 26:58 - loss: 2.1279 - acc: 0.4060/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 58 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*3/10 [========>.....................] - ETA: 23:29 - loss: 2.1188 - acc: 0.4093/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 6 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*4/10 [===========>..................] - ETA: 20:10 - loss: 2.1401 - acc: 0.3965/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 36 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*5/10 [==============>...............] - ETA: 16:44 - loss: 2.1479 - acc: 0.3960/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 46 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*6/10 [=================>............] - ETA: 13:20 - loss: 2.1228 - acc: 0.4003/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 11 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*7/10 [====================>.........] - ETA: 9:58 - loss: 2.1320 - acc: 0.4000 /usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 24 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*8/10 [=======================>......] - ETA: 6:39 - loss: 2.1426 - acc: 0.3990/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 51 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*9/10 [==========================>...] - ETA: 3:19 - loss: 2.1503 - acc: 0.3942/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 32 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*10/10 [==============================] - 2005s 200s/step - loss: 2.1523 - acc: 0.3946 - val\_loss: 1.2940 - val\_acc: 0.7236*

*Epoch 00002: loss improved from 2.29312 to 2.15229, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5*

*Epoch 3/10*

*/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 9 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*1/10 [==>...........................] - ETA: 29:30 - loss: 2.0080 - acc: 0.4160/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 55 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*2/10 [=====>........................] - ETA: 26:11 - loss: 2.0340 - acc: 0.4110/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 19 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*3/10 [========>.....................] - ETA: 23:08 - loss: 1.9723 - acc: 0.4313/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 22 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*4/10 [===========>..................] - ETA: 19:55 - loss: 1.9735 - acc: 0.4385/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 7 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*5/10 [==============>...............] - ETA: 16:37 - loss: 1.9731 - acc: 0.4372/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 57 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*6/10 [=================>............] - ETA: 13:19 - loss: 1.9693 - acc: 0.4350/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 35 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*7/10 [====================>.........] - ETA: 9:59 - loss: 1.9778 - acc: 0.4349 /usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 26 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*8/10 [=======================>......] - ETA: 6:39 - loss: 1.9831 - acc: 0.4340/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 23 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*9/10 [==========================>...] - ETA: 3:20 - loss: 1.9784 - acc: 0.4371/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 42 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*10/10 [==============================] - 2000s 200s/step - loss: 1.9760 - acc: 0.4384 - val\_loss: 1.2578 - val\_acc: 0.7227*

*Epoch 00003: loss improved from 2.15229 to 1.97600, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5*

*Epoch 4/10*

*/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 12 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*1/10 [==>...........................] - ETA: 29:45 - loss: 2.0672 - acc: 0.4380/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 0 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*2/10 [=====>........................] - ETA: 26:17 - loss: 2.0831 - acc: 0.4220/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 38 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*3/10 [========>.....................] - ETA: 23:21 - loss: 2.0689 - acc: 0.4273/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 50 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*4/10 [===========>..................] - ETA: 20:05 - loss: 2.0304 - acc: 0.4360/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 28 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*5/10 [==============>...............] - ETA: 16:50 - loss: 2.0134 - acc: 0.4420/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 29 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*6/10 [=================>............] - ETA: 13:36 - loss: 1.9954 - acc: 0.4440/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 21 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*7/10 [====================>.........] - ETA: 10:09 - loss: 1.9717 - acc: 0.4503/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 2 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*8/10 [=======================>......] - ETA: 6:43 - loss: 1.9833 - acc: 0.4432 /usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 37 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*9/10 [==========================>...] - ETA: 3:22 - loss: 2.0127 - acc: 0.4376/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 40 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*10/10 [==============================] - 2022s 202s/step - loss: 2.0185 - acc: 0.4368 - val\_loss: 1.1679 - val\_acc: 0.7432*

*Epoch 00004: loss did not improve from 1.97600*

*Epoch 5/10*

*/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 43 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*1/10 [==>...........................] - ETA: 28:34 - loss: 1.8878 - acc: 0.4700/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 20 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*2/10 [=====>........................] - ETA: 25:58 - loss: 1.8483 - acc: 0.4780/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 30 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*3/10 [========>.....................] - ETA: 23:35 - loss: 1.8066 - acc: 0.4880/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 47 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*4/10 [===========>..................] - ETA: 20:08 - loss: 1.8001 - acc: 0.4815/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 54 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*5/10 [==============>...............] - ETA: 16:55 - loss: 1.8246 - acc: 0.4796/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 3 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*6/10 [=================>............] - ETA: 13:33 - loss: 1.8403 - acc: 0.4770/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 25 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*7/10 [====================>.........] - ETA: 10:07 - loss: 1.8195 - acc: 0.4786/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 15 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*8/10 [=======================>......] - ETA: 6:46 - loss: 1.8086 - acc: 0.4818 /usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 49 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*9/10 [==========================>...] - ETA: 3:23 - loss: 1.8210 - acc: 0.4793/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 10 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*10/10 [==============================] - 2036s 204s/step - loss: 1.8145 - acc: 0.4804 - val\_loss: 0.9245 - val\_acc: 0.7756*

*Epoch 00005: loss improved from 1.97600 to 1.81450, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5*

*Epoch 6/10*

*/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 41 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*1/10 [==>...........................] - ETA: 29:57 - loss: 1.7053 - acc: 0.5040/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 33 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*2/10 [=====>........................] - ETA: 28:55 - loss: 1.7534 - acc: 0.4860/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 8 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*3/10 [========>.....................] - ETA: 24:53 - loss: 1.7579 - acc: 0.4893/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 31 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*4/10 [===========>..................] - ETA: 21:27 - loss: 1.7707 - acc: 0.4865/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 13 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*5/10 [==============>...............] - ETA: 17:37 - loss: 1.8080 - acc: 0.4796/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 18 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*6/10 [=================>............] - ETA: 13:56 - loss: 1.8030 - acc: 0.4763/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 53 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*7/10 [====================>.........] - ETA: 10:21 - loss: 1.7971 - acc: 0.4760/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 14 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*8/10 [=======================>......] - ETA: 6:50 - loss: 1.8041 - acc: 0.4745 /usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 5 could not be retrieved. It could be because a worker has died.*

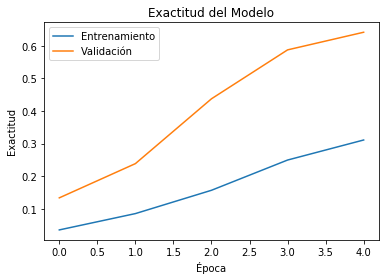
*UserWarning)*

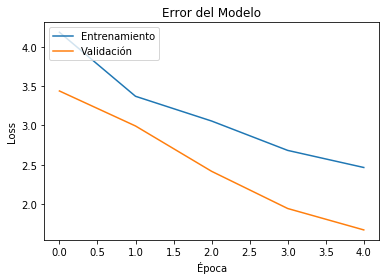
*9/10 [==========================>...] - ETA: 3:24 - loss: 1.8082 - acc: 0.4727/usr/local/lib/python3.6/dist-packages/keras/utils/data\_utils.py:610: UserWarning: The input 17 could not be retrieved. It could be because a worker has died.*

*UserWarning)*

*10/10 [==============================] - 2045s 204s/step - loss: 1.8105 - acc: 0.4744 - val\_loss: 0.9938 - val\_acc: 0.7572*

*Epoch 00006: loss improved from 1.81450 to 1.81050, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5*





***3ra ejecución)*** *5 épocas -- baja drasticamente el tiempo de entrenamiento :)*

*Epoch 1/5*

*15/15 [==============================] - 41s 3s/step - loss: 1.6520 - acc: 0.5347 - val\_loss: 0.9208 - val\_acc: 0.7776*

*Epoch 00001: loss improved from inf to 1.65204, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5*

*Epoch 2/5*

*15/15 [==============================] - 36s 2s/step - loss: 1.5940 - acc: 0.5391 - val\_loss: 0.7499 - val\_acc: 0.8220*

*Epoch 00002: loss improved from 1.65204 to 1.59402, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5*

*Epoch 3/5*

*15/15 [==============================] - 35s 2s/step - loss: 1.5298 - acc: 0.5623 - val\_loss: 0.6889 - val\_acc: 0.8359*

*Epoch 00003: loss improved from 1.59402 to 1.52976, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5*

*Epoch 4/5*

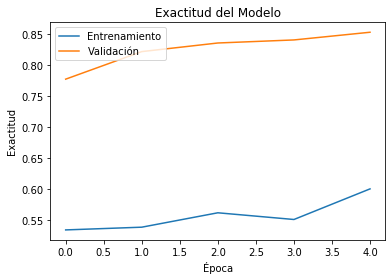
*15/15 [==============================] - 35s 2s/step - loss: 1.5671 - acc: 0.5508 - val\_loss: 0.6620 - val\_acc: 0.8408*

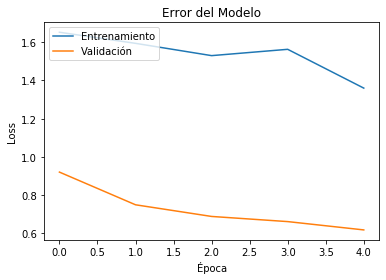
*Epoch 00004: loss did not improve from 1.52976*

*Epoch 5/5*

*15/15 [==============================] - 36s 2s/step - loss: 1.3599 - acc: 0.6008 - val\_loss: 0.6185 - val\_acc: 0.8532*

*Epoch 00005: loss improved from 1.52976 to 1.35990, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5*

**

**

***4ta ejecución)*** 1*5 épocas -- sigue mejorando, con los datos de validación ya está aceptable*

Epoch 1/15

15/15 [==============================] - 37s 2s/step - loss: 1.3517 - acc: 0.6066 - val\_loss: 0.5563 - val\_acc: 0.8580

Epoch 00001: loss improved from inf to 1.33105, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 2/15

15/15 [==============================] - 36s 2s/step - loss: 1.2953 - acc: 0.6201 - val\_loss: 0.5523 - val\_acc: 0.8640

Epoch 00002: loss improved from 1.33105 to 1.29527, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 3/15

15/15 [==============================] - 34s 2s/step - loss: 1.2471 - acc: 0.6377 - val\_loss: 0.5971 - val\_acc: 0.8575

Epoch 00003: loss improved from 1.29527 to 1.24715, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 4/15

15/15 [==============================] - 38s 3s/step - loss: 1.2008 - acc: 0.6496 - val\_loss: 0.5182 - val\_acc: 0.8748

Epoch 00004: loss improved from 1.24715 to 1.20085, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 5/15

15/15 [==============================] - 33s 2s/step - loss: 1.1855 - acc: 0.6494 - val\_loss: 0.4777 - val\_acc: 0.8748

Epoch 00005: loss improved from 1.20085 to 1.18841, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 6/15

15/15 [==============================] - 34s 2s/step - loss: 1.1277 - acc: 0.6664 - val\_loss: 0.5144 - val\_acc: 0.8752

Epoch 00006: loss improved from 1.18841 to 1.12769, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 7/15

15/15 [==============================] - 38s 3s/step - loss: 1.1339 - acc: 0.6632 - val\_loss: 0.4639 - val\_acc: 0.8908

Epoch 00007: loss did not improve from 1.12769

Epoch 8/15

15/15 [==============================] - 35s 2s/step - loss: 1.0807 - acc: 0.6836 - val\_loss: 0.4852 - val\_acc: 0.8708

Epoch 00008: loss improved from 1.12769 to 1.08068, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 9/15

15/15 [==============================] - 34s 2s/step - loss: 1.1464 - acc: 0.6668 - val\_loss: 0.4552 - val\_acc: 0.8832

Epoch 00009: loss did not improve from 1.08068

Epoch 10/15

15/15 [==============================] - 36s 2s/step - loss: 1.0244 - acc: 0.6969 - val\_loss: 0.4302 - val\_acc: 0.8876

Epoch 00010: loss improved from 1.08068 to 1.01784, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 11/15

15/15 [==============================] - 35s 2s/step - loss: 1.0032 - acc: 0.6968 - val\_loss: 0.5168 - val\_acc: 0.8596

Epoch 00011: loss improved from 1.01784 to 1.00323, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 12/15

15/15 [==============================] - 34s 2s/step - loss: 1.0181 - acc: 0.6949 - val\_loss: 0.3975 - val\_acc: 0.8997

Epoch 00012: loss did not improve from 1.00323

Epoch 13/15

15/15 [==============================] - 36s 2s/step - loss: 0.9992 - acc: 0.7025 - val\_loss: 0.4081 - val\_acc: 0.8912

Epoch 00013: loss improved from 1.00323 to 0.99786, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 14/15

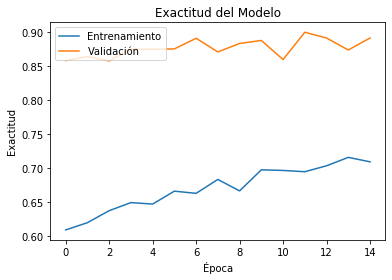
15/15 [==============================] - 36s 2s/step - loss: 0.9492 - acc: 0.7160 - val\_loss: 0.4975 - val\_acc: 0.8736

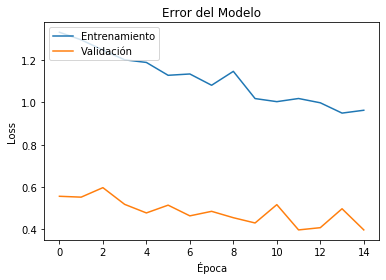
Epoch 00014: loss improved from 0.99786 to 0.94918, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 15/15

15/15 [==============================] - 34s 2s/step - loss: 0.9626 - acc: 0.7095 - val\_loss: 0.3975 - val\_acc: 0.8913

Epoch 00015: loss did not improve from 0.94918





***5ta ejecución)*** *25 épocas --*

Epoch 1/25

25/25 [==============================] - 62s 2s/step - loss: 0.9275 - acc: 0.7186 - val\_loss: 0.3934 - val\_acc: 0.8956

Epoch 00001: loss improved from inf to 0.92749, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 2/25

25/25 [==============================] - 61s 2s/step - loss: 0.8966 - acc: 0.7278 - val\_loss: 0.3701 - val\_acc: 0.9054

Epoch 00002: loss improved from 0.92749 to 0.89664, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 3/25

25/25 [==============================] - 57s 2s/step - loss: 0.8813 - acc: 0.7396 - val\_loss: 0.3827 - val\_acc: 0.8986

Epoch 00003: loss improved from 0.89664 to 0.88861, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 4/25

25/25 [==============================] - 60s 2s/step - loss: 0.8495 - acc: 0.7422 - val\_loss: 0.3571 - val\_acc: 0.9032

Epoch 00004: loss improved from 0.88861 to 0.84947, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 5/25

25/25 [==============================] - 59s 2s/step - loss: 0.8755 - acc: 0.7400 - val\_loss: 0.3609 - val\_acc: 0.9038

Epoch 00005: loss did not improve from 0.84947

Epoch 6/25

25/25 [==============================] - 58s 2s/step - loss: 0.8318 - acc: 0.7489 - val\_loss: 0.3685 - val\_acc: 0.9034

Epoch 00006: loss improved from 0.84947 to 0.83184, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 7/25

25/25 [==============================] - 59s 2s/step - loss: 0.8137 - acc: 0.7605 - val\_loss: 0.3542 - val\_acc: 0.9074

Epoch 00007: loss improved from 0.83184 to 0.80639, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 8/25

25/25 [==============================] - 61s 2s/step - loss: 0.8154 - acc: 0.7544 - val\_loss: 0.3425 - val\_acc: 0.9073

Epoch 00008: loss did not improve from 0.80639

Epoch 9/25

25/25 [==============================] - 58s 2s/step - loss: 0.7688 - acc: 0.7690 - val\_loss: 0.3624 - val\_acc: 0.9054

Epoch 00009: loss improved from 0.80639 to 0.76882, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 10/25

25/25 [==============================] - 58s 2s/step - loss: 0.7817 - acc: 0.7663 - val\_loss: 0.3470 - val\_acc: 0.9050

Epoch 00010: loss did not improve from 0.76882

Epoch 11/25

25/25 [==============================] - 61s 2s/step - loss: 0.7814 - acc: 0.7644 - val\_loss: 0.3475 - val\_acc: 0.8992

Epoch 00011: loss did not improve from 0.76882

Epoch 12/25

25/25 [==============================] - 56s 2s/step - loss: 0.7454 - acc: 0.7740 - val\_loss: 0.3346 - val\_acc: 0.9105

Epoch 00012: loss improved from 0.76882 to 0.74185, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 13/25

25/25 [==============================] - 60s 2s/step - loss: 0.7236 - acc: 0.7764 - val\_loss: 0.3140 - val\_acc: 0.9134

Epoch 00013: loss improved from 0.74185 to 0.72357, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 14/25

25/25 [==============================] - 59s 2s/step - loss: 0.7590 - acc: 0.7689 - val\_loss: 0.3269 - val\_acc: 0.9069

Epoch 00014: loss did not improve from 0.72357

Epoch 15/25

25/25 [==============================] - 58s 2s/step - loss: 0.7029 - acc: 0.7841 - val\_loss: 0.3160 - val\_acc: 0.9129

Epoch 00015: loss improved from 0.72357 to 0.70287, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 16/25

25/25 [==============================] - 60s 2s/step - loss: 0.7268 - acc: 0.7791 - val\_loss: 0.3173 - val\_acc: 0.9098

Epoch 00016: loss did not improve from 0.70287

Epoch 17/25

25/25 [==============================] - 59s 2s/step - loss: 0.6986 - acc: 0.7875 - val\_loss: 0.3392 - val\_acc: 0.9040

Epoch 00017: loss did not improve from 0.70287

Epoch 18/25

25/25 [==============================] - 57s 2s/step - loss: 0.6886 - acc: 0.7864 - val\_loss: 0.2824 - val\_acc: 0.9221

Epoch 00018: loss improved from 0.70287 to 0.69116, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 19/25

25/25 [==============================] - 59s 2s/step - loss: 0.6970 - acc: 0.7906 - val\_loss: 0.2986 - val\_acc: 0.9184

Epoch 00019: loss did not improve from 0.69116

Epoch 20/25

25/25 [==============================] - 60s 2s/step - loss: 0.6743 - acc: 0.7956 - val\_loss: 0.2929 - val\_acc: 0.9145

Epoch 00020: loss improved from 0.69116 to 0.67427, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 21/25

25/25 [==============================] - 57s 2s/step - loss: 0.6735 - acc: 0.7951 - val\_loss: 0.2707 - val\_acc: 0.9235

Epoch 00021: loss did not improve from 0.67427

Epoch 22/25

25/25 [==============================] - 58s 2s/step - loss: 0.6877 - acc: 0.7938 - val\_loss: 0.2917 - val\_acc: 0.9176

Epoch 00022: loss did not improve from 0.67427

Epoch 23/25

25/25 [==============================] - 61s 2s/step - loss: 0.6577 - acc: 0.7983 - val\_loss: 0.2716 - val\_acc: 0.9251

Epoch 00023: loss improved from 0.67427 to 0.65770, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 24/25

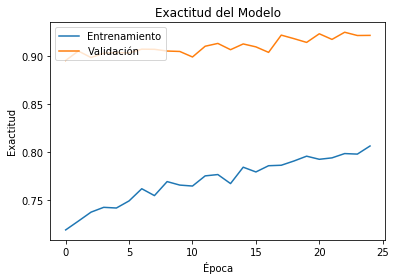
25/25 [==============================] - 58s 2s/step - loss: 0.6452 - acc: 0.7978 - val\_loss: 0.2816 - val\_acc: 0.9217

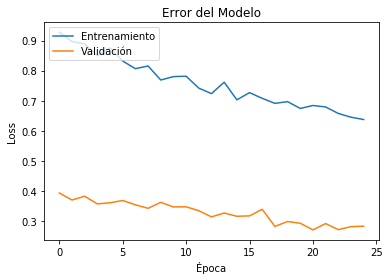
Epoch 00024: loss improved from 0.65770 to 0.64519, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 25/25

25/25 [==============================] - 60s 2s/step - loss: 0.6375 - acc: 0.8062 - val\_loss: 0.2831 - val\_acc: 0.9218

Epoch 00025: loss improved from 0.64519 to 0.63746, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5





***5ta ejecución)*** 2*5 épocas -*

Epoch 1/25

25/25 [==============================] - 60s 2s/step - loss: 0.6555 - acc: 0.7932 - val\_loss: 0.2706 - val\_acc: 0.9248

Epoch 00001: loss improved from inf to 0.65803, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 2/25

25/25 [==============================] - 62s 2s/step - loss: 0.6468 - acc: 0.8008 - val\_loss: 0.2989 - val\_acc: 0.9179

Epoch 00002: loss improved from 0.65803 to 0.64679, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 3/25

25/25 [==============================] - 59s 2s/step - loss: 0.6437 - acc: 0.8016 - val\_loss: 0.2581 - val\_acc: 0.9263

Epoch 00003: loss improved from 0.64679 to 0.64368, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 4/25

25/25 [==============================] - 58s 2s/step - loss: 0.6420 - acc: 0.8046 - val\_loss: 0.2965 - val\_acc: 0.9176

Epoch 00004: loss improved from 0.64368 to 0.63213, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 5/25

25/25 [==============================] - 61s 2s/step - loss: 0.6148 - acc: 0.8096 - val\_loss: 0.2950 - val\_acc: 0.9181

Epoch 00005: loss improved from 0.63213 to 0.61482, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 6/25

25/25 [==============================] - 59s 2s/step - loss: 0.6169 - acc: 0.8172 - val\_loss: 0.2610 - val\_acc: 0.9241

Epoch 00006: loss did not improve from 0.61482

Epoch 7/25

25/25 [==============================] - 59s 2s/step - loss: 0.6226 - acc: 0.8092 - val\_loss: 0.2853 - val\_acc: 0.9230

Epoch 00007: loss did not improve from 0.61482

Epoch 8/25

25/25 [==============================] - 61s 2s/step - loss: 0.6110 - acc: 0.8104 - val\_loss: 0.2502 - val\_acc: 0.9293

Epoch 00008: loss improved from 0.61482 to 0.61102, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 9/25

25/25 [==============================] - 59s 2s/step - loss: 0.5954 - acc: 0.8192 - val\_loss: 0.2501 - val\_acc: 0.9281

Epoch 00009: loss improved from 0.61102 to 0.59541, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 10/25

25/25 [==============================] - 58s 2s/step - loss: 0.5989 - acc: 0.8144 - val\_loss: 0.2541 - val\_acc: 0.9256

Epoch 00010: loss did not improve from 0.59541

Epoch 11/25

25/25 [==============================] - 61s 2s/step - loss: 0.5902 - acc: 0.8176 - val\_loss: 0.2524 - val\_acc: 0.9331

Epoch 00011: loss improved from 0.59541 to 0.59022, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 12/25

25/25 [==============================] - 57s 2s/step - loss: 0.5983 - acc: 0.8167 - val\_loss: 0.2516 - val\_acc: 0.9271

Epoch 00012: loss did not improve from 0.59022

Epoch 13/25

25/25 [==============================] - 60s 2s/step - loss: 0.5826 - acc: 0.8169 - val\_loss: 0.2481 - val\_acc: 0.9298

Epoch 00013: loss improved from 0.59022 to 0.58261, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 14/25

25/25 [==============================] - 61s 2s/step - loss: 0.5724 - acc: 0.8242 - val\_loss: 0.2422 - val\_acc: 0.9327

Epoch 00014: loss improved from 0.58261 to 0.57237, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 15/25

25/25 [==============================] - 56s 2s/step - loss: 0.5882 - acc: 0.8191 - val\_loss: 0.2762 - val\_acc: 0.9229

Epoch 00015: loss did not improve from 0.57237

Epoch 16/25

25/25 [==============================] - 58s 2s/step - loss: 0.5854 - acc: 0.8187 - val\_loss: 0.2463 - val\_acc: 0.9306

Epoch 00016: loss did not improve from 0.57237

Epoch 17/25

25/25 [==============================] - 61s 2s/step - loss: 0.5643 - acc: 0.8266 - val\_loss: 0.2537 - val\_acc: 0.9285

Epoch 00017: loss improved from 0.57237 to 0.56429, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 18/25

25/25 [==============================] - 56s 2s/step - loss: 0.5625 - acc: 0.8283 - val\_loss: 0.2544 - val\_acc: 0.9303

Epoch 00018: loss did not improve from 0.56429

Epoch 19/25

25/25 [==============================] - 60s 2s/step - loss: 0.5650 - acc: 0.8272 - val\_loss: 0.2503 - val\_acc: 0.9288

Epoch 00019: loss did not improve from 0.56429

Epoch 20/25

25/25 [==============================] - 59s 2s/step - loss: 0.5683 - acc: 0.8285 - val\_loss: 0.2498 - val\_acc: 0.9265

Epoch 00020: loss improved from 0.56429 to 0.56032, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 21/25

25/25 [==============================] - 58s 2s/step - loss: 0.5517 - acc: 0.8284 - val\_loss: 0.2357 - val\_acc: 0.9363

Epoch 00021: loss improved from 0.56032 to 0.55173, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 22/25

25/25 [==============================] - 61s 2s/step - loss: 0.5560 - acc: 0.8262 - val\_loss: 0.2481 - val\_acc: 0.9308

Epoch 00022: loss did not improve from 0.55173

Epoch 23/25

25/25 [==============================] - 58s 2s/step - loss: 0.5462 - acc: 0.8303 - val\_loss: 0.2292 - val\_acc: 0.9337

Epoch 00023: loss improved from 0.55173 to 0.54421, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5

Epoch 24/25

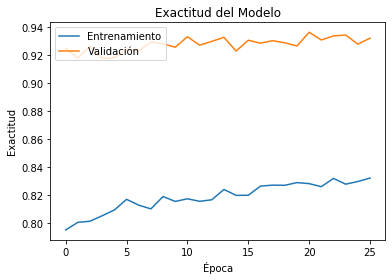
25/25 [==============================] - 58s 2s/step - loss: 0.5616 - acc: 0.8280 - val\_loss: 0.2380 - val\_acc: 0.9343

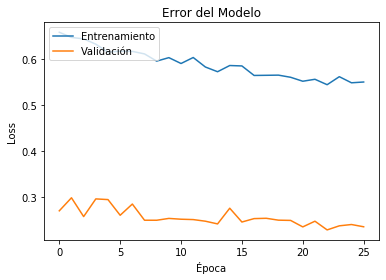
Epoch 00024: loss did not improve from 0.54421

Epoch 25/25

25/25 [==============================] - 60s 2s/step - loss: 0.5484 - acc: 0.8299 - val\_loss: 0.2409 - val\_acc: 0.9278

Epoch 00025: loss did not improve from 0.54421





***5ta ejecución)*** 2*5 épocas - final*

*Epoch 1/25*

*50/50 [==============================] - 116s 2s/step - loss: 0.5383 - acc: 0.8351 - val\_loss: 0.2409 - val\_acc: 0.9328*

*Epoch 00001: loss improved from inf to 0.53860, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5*

*Epoch 2/25*

*50/50 [==============================] - 114s 2s/step - loss: 0.5571 - acc: 0.8295 - val\_loss: 0.2388 - val\_acc: 0.9345*

*Epoch 00002: loss did not improve from 0.53860*

*Epoch 3/25*

*50/50 [==============================] - 114s 2s/step - loss: 0.5334 - acc: 0.8358 - val\_loss: 0.2132 - val\_acc: 0.9407*

*Epoch 00003: loss improved from 0.53860 to 0.53335, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5*

*Epoch 4/25*

*50/50 [==============================] - 114s 2s/step - loss: 0.5158 - acc: 0.8385 - val\_loss: 0.2302 - val\_acc: 0.9374*

*Epoch 00004: loss improved from 0.53335 to 0.51498, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5*

*Epoch 5/25*

*50/50 [==============================] - 112s 2s/step - loss: 0.5120 - acc: 0.8410 - val\_loss: 0.2191 - val\_acc: 0.9349*

*Epoch 00005: loss did not improve from 0.51498*

*Epoch 6/25*

*50/50 [==============================] - 114s 2s/step - loss: 0.5166 - acc: 0.8432 - val\_loss: 0.2099 - val\_acc: 0.9391*

*Epoch 00006: loss did not improve from 0.51498*

*Epoch 7/25*

*50/50 [==============================] - 114s 2s/step - loss: 0.4924 - acc: 0.8481 - val\_loss: 0.2057 - val\_acc: 0.9420*

*Epoch 00007: loss improved from 0.51498 to 0.49647, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5*

*Epoch 8/25*

*50/50 [==============================] - 114s 2s/step - loss: 0.5040 - acc: 0.8441 - val\_loss: 0.2072 - val\_acc: 0.9415*

*Epoch 00008: loss did not improve from 0.49647*

*Epoch 9/25*

*50/50 [==============================] - 114s 2s/step - loss: 0.4911 - acc: 0.8496 - val\_loss: 0.2305 - val\_acc: 0.9307*

*Epoch 00009: loss improved from 0.49647 to 0.49111, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5*

*Epoch 10/25*

*50/50 [==============================] - 113s 2s/step - loss: 0.4959 - acc: 0.8462 - val\_loss: 0.2013 - val\_acc: 0.9418*

*Epoch 00010: loss did not improve from 0.49111*

*Epoch 11/25*

*50/50 [==============================] - 115s 2s/step - loss: 0.5091 - acc: 0.8462 - val\_loss: 0.2034 - val\_acc: 0.9421*

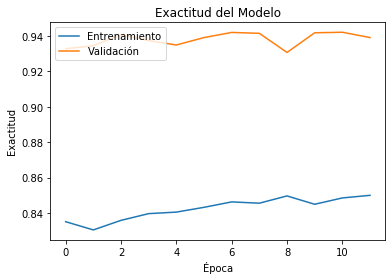
*Epoch 00011: loss did not improve from 0.49111*

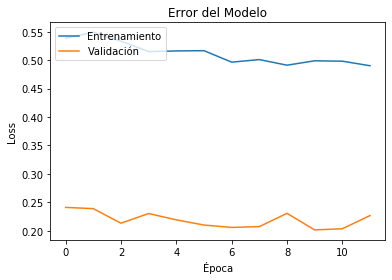
*Epoch 12/25*

*50/50 [==============================] - 111s 2s/step - loss: 0.4887 - acc: 0.8503 - val\_loss: 0.2266 - val\_acc: 0.9391*

*Epoch 00012: loss improved from 0.49111 to 0.49013, saving model to gdrive/My Drive/IA/demoConvNet-Letras/Model/CNN\_L\_model\_final.h5*

*Epoch 00012: early stopping*

**

**

**VALIDACIÓN:**

--- Procesando M

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/M/img023-00630.png : W[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/M/img023-01000.png : W[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/M/img023-00295.png : N[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/M/img023-00381.png : N[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/M/img023-00385.png : W[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/M/img023-00616.png : K[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/M/img023-00615.png : K[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/M/img023-00631.png : W[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/M/img023-00853.png : W[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/M/img023-00855.png : W[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/M/img023-00997.png : W[1.]!

TOTAL CLASS M : 204 : Detectado OK 193 imágenes - Detectado con Error 11 imágenes.

con una Exactitud de 0.946078

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--- Procesando H

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/H/img018-00152.png : R[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/H/img018-00296.png : R[0.9999988]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/H/img018-00464.png : K[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/H/img018-00488.png : K[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/H/img018-00632.png : 6[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/H/img018-00630.png : 6[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/H/img018-00780.png : B[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/H/img018-00808.png : D[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/H/img018-00900.png : U[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/H/img018-00998.png : R[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/H/img018-00162.png : 8[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/H/img018-00529.png : X[1.]!

TOTAL CLASS H : 231 : Detectado OK 219 imágenes - Detectado con Error 12 imágenes.

con una Exactitud de 0.948052

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--- Procesando 4

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/4/img005-00527.png : 9[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/4/img005-01000.png : K[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/4/img005-00488.png : I[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/4/img005-00899.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/4/img005-00453.png : I[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/4/img005-00454.png : L[1.]!

TOTAL CLASS 4 : 204 : Detectado OK 198 imágenes - Detectado con Error 6 imágenes.

con una Exactitud de 0.970588

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--- Procesando 5

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/5/img006-00890.png : S[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/5/img006-00151.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/5/img006-00270.png : S[1.]!

TOTAL CLASS 5 : 204 : Detectado OK 201 imágenes - Detectado con Error 3 imágenes.

con una Exactitud de 0.985294

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--- Procesando 2

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/2/img003-00775.png : E[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/2/img003-00212.png : Z[1.]!

TOTAL CLASS 2 : 204 : Detectado OK 202 imágenes - Detectado con Error 2 imágenes.

con una Exactitud de 0.990196

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--- Procesando 7

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/7/img008-00487.png : X[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/7/img008-00141.png : T[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/7/img008-00792.png : 1[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/7/img008-00142.png : T[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/7/img008-01006.png : T[1.]!

TOTAL CLASS 7 : 204 : Detectado OK 199 imágenes - Detectado con Error 5 imágenes.

con una Exactitud de 0.975490

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--- Procesando 9

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/9/img010-00775.png : F[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/9/img010-00806.png : Q[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/9/img010-00105.png : R[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/9/img010-00313.png : P[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/9/img010-00106.png : R[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/9/img010-00900.png : Q[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/9/img010-00150.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/9/img010-00107.png : R[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/9/img010-01005.png : Q[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/9/img010-00808.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/9/img010-00991.png : 1[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/9/img010-00759.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/9/img010-00992.png : 1[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/9/img010-00685.png : 1[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/9/img010-00854.png : B[1.]!

TOTAL CLASS 9 : 204 : Detectado OK 189 imágenes - Detectado con Error 15 imágenes.

con una Exactitud de 0.926471

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--- Procesando 6

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/6/img007-00001.png : E[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/6/img007-00141.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/6/img007-00149.png : C[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/6/img007-00989.png : L[1.]!

TOTAL CLASS 6 : 324 : Detectado OK 320 imágenes - Detectado con Error 4 imágenes.

con una Exactitud de 0.987654

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--- Procesando 8

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/8/img009-00105.png : 3[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/8/img009-00106.png : 3[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/8/img009-00122.png : X[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/8/img009-00142.png : 2[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/8/img009-00144.png : 2[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/8/img009-00163.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/8/img009-00161.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/8/img009-00253.png : B[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/8/img009-00735.png : B[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/8/img009-00759.png : B[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/8/img009-00757.png : B[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/8/img009-00758.png : B[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/8/img009-00773.png : B[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/8/img009-00775.png : B[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/8/img009-00781.png : K[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/8/img009-00879.png : B[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/8/img009-00897.png : 9[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/8/img009-00992.png : X[1.]!

TOTAL CLASS 8 : 204 : Detectado OK 186 imágenes - Detectado con Error 18 imágenes.

con una Exactitud de 0.911765

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--- Procesando 3

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/3/img004-00106.png : 2[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/3/img004-00346.png : 8[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/3/img004-00347.png : 8[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/3/img004-00504.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/3/img004-00532.png : Z[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/3/img004-00531.png : L[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/3/img004-00629.png : E[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/3/img004-00632.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/3/img004-00801.png : 5[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/3/img004-00840.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/3/img004-00877.png : C[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/3/img004-00969.png : S[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/3/img004-00989.png : 1[1.]!

TOTAL CLASS 3 : 204 : Detectado OK 191 imágenes - Detectado con Error 13 imágenes.

con una Exactitud de 0.936275

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--- Procesando 1

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/1/img002-00214.png : I[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/1/img002-00253.png : L[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/1/img002-00256.png : L[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/1/img002-00295.png : X[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/1/img002-00409.png : I[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/1/img002-00411.png : I[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/1/img002-00473.png : I[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/1/img002-00476.png : I[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/1/img002-00760.png : I[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/1/img002-00753.png : I[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/1/img002-01005.png : I[1.]!

TOTAL CLASS 1 : 204 : Detectado OK 193 imágenes - Detectado con Error 11 imágenes.

con una Exactitud de 0.946078

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--- Procesando B

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/B/img012-00105.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/B/img012-00107.png : Z[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/B/img012-00254.png : E[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/B/img012-00263.png : R[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/B/img012-00388.png : 8[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/B/img012-00530.png : M[0.96070653]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/B/img012-00614.png : I[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/B/img012-00613.png : I[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/B/img012-00791.png : 2[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/B/img012-00801.png : 6[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/B/img012-00807.png : T[0.9999999]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/B/img012-00806.png : 4[0.74038893]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/B/img012-00828.png : R[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/B/img012-00843.png : R[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/B/img012-00890.png : 3[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/B/img012-00900.png : R[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/B/img012-00996.png : X[1.]!

TOTAL CLASS B : 204 : Detectado OK 187 imágenes - Detectado con Error 17 imágenes.

con una Exactitud de 0.916667

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--- Procesando A

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/A/img011-00295.png : R[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/A/img011-00296.png : K[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/A/img011-00387.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/A/img011-00464.png : K[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/A/img011-00488.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/A/img011-00806.png : B[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/A/img011-00805.png : Q[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/A/img011-00807.png : R[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/A/img011-00853.png : R[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/A/img011-00854.png : R[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/A/img011-00879.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/A/img011-00900.png : L[1.]!

TOTAL CLASS A : 204 : Detectado OK 192 imágenes - Detectado con Error 12 imágenes.

con una Exactitud de 0.941176

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--- Procesando 0

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/0/img001-00004.png : D[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/0/img001-00002.png : D[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/0/img001-00105.png : O[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/0/img001-00143.png : O[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/0/img001-00149.png : O[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/0/img001-00187.png : O[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/0/img001-00186.png : O[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/0/img001-00214.png : O[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/0/img001-00225.png : O[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/0/img001-00239.png : O[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/0/img001-00255.png : D[0.96265453]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/0/img001-00378.png : O[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/0/img001-00463.png : O[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/0/img001-00497.png : O[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/0/img001-00490.png : D[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/0/img001-00527.png : O[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/0/img001-00531.png : K[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/0/img001-00659.png : O[0.9815466]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/0/img001-00774.png : D[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/0/img001-00803.png : O[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/0/img001-00846.png : O[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/0/img001-00847.png : O[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/0/img001-00854.png : O[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/0/img001-00903.png : O[1.]!

TOTAL CLASS 0 : 204 : Detectado OK 180 imágenes - Detectado con Error 24 imágenes.

con una Exactitud de 0.882353

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--- Procesando E

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/E/img015-00163.png : 3[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/E/img015-00346.png : 3[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/E/img015-00388.png : B[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/E/img015-00403.png : 3[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/E/img015-00629.png : 3[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/E/img015-00779.png : C[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/E/img015-00789.png : 3[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/E/img015-00791.png : 3[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/E/img015-00998.png : 3[1.]!

TOTAL CLASS E : 204 : Detectado OK 195 imágenes - Detectado con Error 9 imágenes.

con una Exactitud de 0.955882

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--- Procesando F

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/F/img016-00150.png : T[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/F/img016-00151.png : T[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/F/img016-00434.png : I[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/F/img016-00559.png : T[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/F/img016-00629.png : E[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/F/img016-00777.png : T[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/F/img016-00802.png : T[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/F/img016-00897.png : T[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/F/img016-00899.png : E[0.994981]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/F/img016-00900.png : I[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/F/img016-00996.png : B[0.99268895]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/F/img016-01008.png : H[1.]!

TOTAL CLASS F : 204 : Detectado OK 192 imágenes - Detectado con Error 12 imágenes.

con una Exactitud de 0.941176

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--- Procesando D

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/D/img014-00123.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/D/img014-00141.png : O[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/D/img014-00209.png : O[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/D/img014-00217.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/D/img014-00220.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/D/img014-00218.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/D/img014-00296.png : W[0.9957194]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/D/img014-00462.png : Q[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/D/img014-00530.png : Q[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/D/img014-00629.png : C[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/D/img014-00687.png : Q[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/D/img014-00792.png : Q[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/D/img014-00805.png : E[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/D/img014-00844.png : 0[1.]!

TOTAL CLASS D : 204 : Detectado OK 190 imágenes - Detectado con Error 14 imágenes.

con una Exactitud de 0.931373

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--- Procesando C

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/C/img013-00294.png : B[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/C/img013-00480.png : S[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/C/img013-00530.png : B[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/C/img013-00790.png : B[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/C/img013-00805.png : Q[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/C/img013-00808.png : B[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/C/img013-00943.png : X[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/C/img013-00999.png : 8[1.]!

TOTAL CLASS C : 204 : Detectado OK 196 imágenes - Detectado con Error 8 imágenes.

con una Exactitud de 0.960784

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--- Procesando G

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/G/img017-00190.png : C[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/G/img017-00262.png : Q[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/G/img017-00261.png : Q[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/G/img017-00391.png : C[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/G/img017-00401.png : 9[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/G/img017-00403.png : 9[0.99999475]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/G/img017-00488.png : 6[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/G/img017-00618.png : C[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/G/img017-00632.png : Q[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/G/img017-00630.png : Q[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/G/img017-00689.png : C[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/G/img017-00691.png : C[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/G/img017-00778.png : C[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/G/img017-00838.png : C[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/G/img017-00876.png : C[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/G/img017-00944.png : T[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/G/img017-00992.png : Y[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/G/img017-00993.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/G/img017-00998.png : Q[1.]!

TOTAL CLASS G : 204 : Detectado OK 185 imágenes - Detectado con Error 19 imágenes.

con una Exactitud de 0.906863

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--- Procesando K

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/K/img021-00685.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/K/img021-00777.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/K/img021-00780.png : R[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/K/img021-01006.png : H[1.]!

TOTAL CLASS K : 204 : Detectado OK 200 imágenes - Detectado con Error 4 imágenes.

con una Exactitud de 0.980392

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--- Procesando I

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/I/img019-00034.png : 1[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/I/img019-00164.png : 9[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/I/img019-00231.png : 1[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/I/img019-00402.png : L[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/I/img019-00485.png : 1[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/I/img019-00508.png : 1[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/I/img019-00616.png : 7[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/I/img019-00778.png : S[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/I/img019-00780.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/I/img019-00808.png : B[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/I/img019-00843.png : 9[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/I/img019-00844.png : 9[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/I/img019-00878.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/I/img019-00952.png : 1[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/I/img019-00993.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/I/img019-00995.png : J[1.]!

TOTAL CLASS I : 204 : Detectado OK 188 imágenes - Detectado con Error 16 imágenes.

con una Exactitud de 0.921569

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--- Procesando J

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/J/img020-00238.png : L[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/J/img020-00295.png : X[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/J/img020-00403.png : A[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/J/img020-00631.png : A[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/J/img020-00632.png : A[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/J/img020-00789.png : X[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/J/img020-00790.png : X[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/J/img020-00842.png : 9[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/J/img020-00878.png : W[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/J/img020-00942.png : S[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/J/img020-00994.png : 6[1.]!

TOTAL CLASS J : 204 : Detectado OK 193 imágenes - Detectado con Error 11 imágenes.

con una Exactitud de 0.946078

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--- Procesando N

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/N/img024-00151.png : K[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/N/img024-00209.png : M[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/N/img024-00299.png : W[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/N/img024-00388.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/N/img024-00487.png : W[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/N/img024-00755.png : W[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/N/img024-00779.png : A[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/N/img024-00790.png : X[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/N/img024-00853.png : D[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/N/img024-00880.png : U[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/N/img024-00998.png : X[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/N/img024-00997.png : W[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/N/img024-01000.png : W[1.]!

TOTAL CLASS N : 204 : Detectado OK 191 imágenes - Detectado con Error 13 imágenes.

con una Exactitud de 0.936275

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--- Procesando L

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/L/img022-00294.png : Q[0.99997556]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/L/img022-00296.png : Y[0.9654627]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/L/img022-00384.png : I[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/L/img022-00386.png : 2[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/L/img022-00403.png : X[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/L/img022-00402.png : X[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/L/img022-00532.png : X[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/L/img022-00531.png : X[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/L/img022-00615.png : Z[0.8802256]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/L/img022-00806.png : 8[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/L/img022-00880.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/L/img022-00897.png : 1[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/L/img022-00929.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/L/img022-00999.png : X[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/L/img022-01000.png : X[1.]!

TOTAL CLASS L : 204 : Detectado OK 189 imágenes - Detectado con Error 15 imágenes.

con una Exactitud de 0.926471

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--- Procesando O

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00011.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00063.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00061.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00072.png : 0[0.9999976]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00084.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00095.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00091.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00111.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00162.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00184.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00212.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00210.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00224.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00221.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00223.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00229.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00232.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00291.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00290.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00297.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00333.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00348.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00355.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00353.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00359.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00358.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00371.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00380.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00382.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00381.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00384.png : D[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00445.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00456.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00488.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00505.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00510.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00512.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00531.png : K[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00532.png : N[0.99999774]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00560.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00601.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00599.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00604.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00607.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00613.png : D[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00665.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00688.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00685.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00711.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00710.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00760.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00774.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00782.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00781.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00780.png : Q[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00808.png : Q[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00825.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00827.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00828.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00842.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00876.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00887.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00892.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00917.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00919.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00948.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00977.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00978.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00980.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00992.png : Q[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-00998.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/O/img025-01000.png : 8[1.]!

TOTAL CLASS O : 204 : Detectado OK 132 imágenes - Detectado con Error 72 imágenes.

con una Exactitud de 0.647059

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--- Procesando Q

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Q/img027-00161.png : 2[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Q/img027-00164.png : 2[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Q/img027-00383.png : K[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Q/img027-00384.png : I[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Q/img027-00529.png : C[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Q/img027-00756.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Q/img027-00759.png : U[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Q/img027-00792.png : C[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Q/img027-00879.png : L[1.]!

TOTAL CLASS Q : 204 : Detectado OK 195 imágenes - Detectado con Error 9 imágenes.

con una Exactitud de 0.955882

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--- Procesando P

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/P/img026-00107.png : N[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/P/img026-00151.png : D[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/P/img026-00149.png : D[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/P/img026-00486.png : R[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/P/img026-00532.png : R[0.63215506]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/P/img026-00629.png : K[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/P/img026-00791.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/P/img026-00789.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/P/img026-00807.png : 2[0.9956458]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/P/img026-00808.png : 8[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/P/img026-00856.png : R[0.99951017]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/P/img026-00942.png : I[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/P/img026-00944.png : D[1.]!

TOTAL CLASS P : 204 : Detectado OK 191 imágenes - Detectado con Error 13 imágenes.

con una Exactitud de 0.936275

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--- Procesando R

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/R/img028-00106.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/R/img028-00152.png : D[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/R/img028-00261.png : 3[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/R/img028-00262.png : 3[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/R/img028-00263.png : 3[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/R/img028-00455.png : B[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/R/img028-00480.png : B[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/R/img028-00502.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/R/img028-00530.png : K[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/R/img028-00825.png : B[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/R/img028-00826.png : B[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/R/img028-00961.png : A[1.]!

TOTAL CLASS R : 204 : Detectado OK 192 imágenes - Detectado con Error 12 imágenes.

con una Exactitud de 0.941176

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--- Procesando V

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/V/img032-00293.png : W[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/V/img032-00403.png : Y[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/V/img032-00428.png : Y[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/V/img032-00532.png : Y[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/V/img032-00531.png : Y[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/V/img032-00632.png : Y[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/V/img032-00805.png : A[0.9999988]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/V/img032-00900.png : Y[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/V/img032-00944.png : Q[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/V/img032-01006.png : Y[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/V/img032-01005.png : Y[1.]!

TOTAL CLASS V : 204 : Detectado OK 193 imágenes - Detectado con Error 11 imágenes.

con una Exactitud de 0.946078

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--- Procesando U

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/U/img031-00082.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/U/img031-00151.png : D[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/U/img031-00294.png : W[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/U/img031-00295.png : W[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/U/img031-00296.png : W[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/U/img031-00384.png : I[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/U/img031-00464.png : 0[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/U/img031-00879.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/U/img031-00991.png : N[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/U/img031-00996.png : W[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/U/img031-00999.png : V[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/U/img031-01005.png : W[1.]!

TOTAL CLASS U : 204 : Detectado OK 192 imágenes - Detectado con Error 12 imágenes.

con una Exactitud de 0.941176

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--- Procesando Z

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Z/img036-00081.png : I[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Z/img036-00163.png : 3[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Z/img036-00294.png : S[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Z/img036-00477.png : I[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Z/img036-00530.png : 7[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Z/img036-00531.png : X[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Z/img036-00614.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Z/img036-00615.png : R[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Z/img036-00616.png : R[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Z/img036-00792.png : X[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Z/img036-00790.png : X[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Z/img036-00806.png : B[0.84086835]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Z/img036-00844.png : E[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Z/img036-00880.png : X[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Z/img036-00998.png : 2[1.]!

TOTAL CLASS Z : 204 : Detectado OK 189 imágenes - Detectado con Error 15 imágenes.

con una Exactitud de 0.926471

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--- Procesando W

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/W/img033-00211.png : U[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/W/img033-00253.png : N[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/W/img033-00382.png : U[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/W/img033-00383.png : N[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/W/img033-00557.png : N[0.999665]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/W/img033-00775.png : U[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/W/img033-00807.png : P[0.9999976]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/W/img033-00997.png : N[1.]!

TOTAL CLASS W : 204 : Detectado OK 196 imágenes - Detectado con Error 8 imágenes.

con una Exactitud de 0.960784

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--- Procesando X

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/X/img034-00629.png : L[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/X/img034-00630.png : L[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/X/img034-00806.png : 8[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/X/img034-00878.png : I[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/X/img034-00879.png : I[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/X/img034-00934.png : I[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/X/img034-00943.png : E[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/X/img034-00994.png : B[0.9914163]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/X/img034-00995.png : R[1.]!

TOTAL CLASS X : 204 : Detectado OK 195 imágenes - Detectado con Error 9 imágenes.

con una Exactitud de 0.955882

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--- Procesando S

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/S/img029-00107.png : U[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/S/img029-00106.png : C[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/S/img029-00108.png : C[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/S/img029-00149.png : C[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/S/img029-00141.png : 3[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/S/img029-00209.png : 1[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/S/img029-00294.png : V[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/S/img029-00293.png : V[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/S/img029-00348.png : 3[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/S/img029-00403.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/S/img029-00464.png : 6[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/S/img029-00531.png : 7[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/S/img029-00530.png : 7[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/S/img029-00532.png : X[0.9955057]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/S/img029-00614.png : B[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/S/img029-00616.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/S/img029-00687.png : 1[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/S/img029-00688.png : I[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/S/img029-00774.png : Z[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/S/img029-00780.png : G[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/S/img029-00790.png : X[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/S/img029-00807.png : Q[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/S/img029-00806.png : P[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/S/img029-00844.png : J[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/S/img029-00877.png : J[1.]!

TOTAL CLASS S : 205 : Detectado OK 180 imágenes - Detectado con Error 25 imágenes.

con una Exactitud de 0.878049

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--- Procesando Y

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Y/img035-00261.png : V[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Y/img035-00296.png : V[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Y/img035-00345.png : V[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Y/img035-00385.png : I[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Y/img035-00529.png : K[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Y/img035-00557.png : V[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Y/img035-00685.png : V[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Y/img035-00779.png : P[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Y/img035-00777.png : 2[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Y/img035-00843.png : V[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Y/img035-00880.png : T[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Y/img035-00992.png : 1[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Y/img035-00999.png : 7[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/Y/img035-01006.png : X[1.]!

TOTAL CLASS Y : 204 : Detectado OK 190 imágenes - Detectado con Error 14 imágenes.

con una Exactitud de 0.931373

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--- Procesando T

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/T/img030-00107.png : 7[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/T/img030-00261.png : 1[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/T/img030-00387.png : C[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/T/img030-00488.png : Y[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/T/img030-00616.png : 7[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/T/img030-00632.png : 7[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/T/img030-00806.png : B[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/T/img030-00808.png : B[1.]!

> gdrive/My Drive/IA/demoConvNet-Letras/Letras/test/T/img030-00879.png : J[1.]!

TOTAL CLASS T : 204 : Detectado OK 195 imágenes - Detectado con Error 9 imágenes.

con una Exactitud de 0.955882

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= **TOTAL GENERAL 7492 : Detectado OK 7009 imágenes - Detectado con Error 483 imágenes.**

= Exactitud: 0.935531

= Matriz de Confusión:

[[198 0 0 ... 0 0 0]

[ 0 201 0 ... 2 0 0]

[ 0 0 202 ... 0 0 0]

...

[ 0 0 0 ... 180 0 0]

[ 0 0 1 ... 0 190 1]

[ 0 0 0 ... 0 1 195]]

= Reporte de Clasificación:

**precision recall f1-score support**

0 0.71 0.88 0.79 204

1 0.93 0.95 0.94 204

2 0.95 0.99 0.97 204

3 0.92 0.94 0.93 204

4 0.99 0.97 0.98 204

5 1.00 0.99 0.99 204

6 0.98 0.99 0.98 324

7 0.96 0.98 0.97 204

8 0.95 0.91 0.93 204

9 0.96 0.93 0.94 204

A 0.97 0.94 0.96 204

B 0.87 0.92 0.89 204

C 0.92 0.96 0.94 204

D 0.93 0.93 0.93 204

E 0.96 0.96 0.96 204

F 0.99 0.94 0.97 204

G 0.99 0.91 0.95 204

H 0.99 0.95 0.97 231

I 0.88 0.92 0.90 204

J 0.85 0.95 0.89 204

K 0.93 0.98 0.95 204

L 0.94 0.93 0.94 204

M 0.99 0.95 0.97 204

N 0.95 0.94 0.95 204

O 0.87 0.65 0.74 204

P 0.98 0.94 0.96 204

Q 0.91 0.96 0.93 204

R 0.90 0.94 0.92 204

S 0.96 0.88 0.92 205

T 0.94 0.96 0.95 204

U 0.96 0.94 0.95 204

V 0.96 0.95 0.95 204

W 0.91 0.96 0.93 204

X 0.89 0.96 0.92 204

Y 0.95 0.93 0.94 204

Z 0.97 0.93 0.95 204

**accuracy 0.94 7492**

**macro avg 0.94 0.93 0.93 7492**

weighted avg 0.94 0.94 0.94 7492

===========================================================================================================================