```
In [1]:
         1 # Keras
         2 import keras
         3 from keras import regularizers
         4 from keras.preprocessing import sequence
         5 from keras.preprocessing.text import Tokenizer
         6 # from keras.preprocessing.sequence import pad sequences
         7 from keras.models import Sequential, Model, model from json
         8 from keras.layers import Dense, Embedding, LSTM
         9 from keras.layers import Input, Flatten, Dropout, Activation, BatchNormalization
        10 from keras.layers import ConvlD, MaxPoolinglD, AveragePoolinglD
        11 from keras.utils import np utils, to categorical
        12 from keras.callbacks import (EarlyStopping, LearningRateScheduler,
                                        ModelCheckpoint, TensorBoard, ReduceLROnPlateau)
        13
        14 from keras import losses, models, optimizers
        15 from keras.activations import relu, softmax
        16 from keras.layers import (Convolution2D, GlobalAveragePooling2D, BatchNormalization, Flatten, Dropout,
        17
                                     GlobalMaxPool2D, MaxPool2D, concatenate, Activation, Input, Dense)
        18
        19 # sklearn
        20 from sklearn.metrics import confusion matrix, accuracy score
        21 from sklearn.model selection import train test split
        22 from sklearn.preprocessing import LabelEncoder
        23
        24 # Other
        25 from tgdm import tgdm, tgdm pandas
        26 import scipy
        27 from scipy.stats import skew
        28 import librosa
        29 import librosa.display
        30 import json
        31 import numpy as np
        32 import matplotlib.pyplot as plt
        33 import tensorflow as tf
        34 from matplotlib.pyplot import specgram
        35 import pandas as pd
        36 import seaborn as sns
        37 import glob
        38 import os
        39 import sys
        40 import IPython.display as ipd # To play sound in the notebook
        41 import warnings
```

```
42 # ignore warnings
43 if not sys.warnoptions:
44 warnings.simplefilter("ignore")
```

Out[2]:

path	source	labels	
data/RAVDESS/Actor_01/03-01-08-02-02-01-01.wav	RAVDESS	male_surprise	0
data/RAVDESS/Actor_01/03-01-08-01-01-01-01.wav	RAVDESS	male_surprise	1
data/RAVDESS/Actor_01/03-01-05-01-02-01-01.wav	RAVDESS	male_angry	2
data/RAVDESS/Actor_01/03-01-06-01-02-02-01.wav	RAVDESS	male_fear	3
data/RAVDESS/Actor_01/03-01-06-02-01-02-01.wav	RAVDESS	male_fear	4

```
In [3]:
            1. Data Augmentation method
          3
            def speedNpitch(data):
          5
          6
                 Speed and Pitch Tuning.
          7
          8
                 # you can change low and high here
                 length change = np.random.uniform(low=0.8, high = 1)
          9
                 speed fac = 1.2 / length change # try changing 1.0 to 2.0 ... =D
         10
         11
                 tmp = np.interp(np.arange(0,len(data),speed fac),np.arange(0,len(data)),data)
         12
                 minlen = min(data.shape[0], tmp.shape[0])
                 data *= 0
         13
                 data[0:minlen] = tmp[0:minlen]
         14
         15
                 return data
         16
         17 | ' ' '
         18 2. Extracting the MFCC feature as an image (Matrix format).
         19
         20 def prepare data(df, n, aug, mfcc):
                 X = np.empty(shape=(df.shape[0], n, 216, 1))
         21
         22
                 input length = sampling rate * audio duration
         23
         24
                 cnt = 0
         25
                 for fname in tqdm(df.path):
         26
                     file path = fname
                     data, = librosa.load(file path, sr=sampling rate
         27
                                             ,res type="kaiser fast"
         28
         29
                                             ,duration=2.5
         30
                                             .offset=0.5
         31
         32
         33
                     # Random offset / Padding
                     if len(data) > input length:
         34
         35
                         max offset = len(data) - input length
         36
                         offset = np.random.randint(max offset)
                         data = data[offset:(input length+offset)]
         37
         38
                     else:
         39
                         if input length > len(data):
                             max offset = input length - len(data)
         40
         41
                             offset = np.random.randint(max offset)
```

```
42
               else:
                    offset = 0
43
44
               data = np.pad(data, (offset, int(input length) - len(data) - offset), "constant")
45
46
           # Augmentation?
47
           if aug == 1:
48
               data = speedNpitch(data)
49
           # which feature?
50
51
           if mfcc == 1:
52
               # MFCC extraction
               MFCC = librosa.feature.mfcc(data, sr=sampling rate, n mfcc=n mfcc)
53
54
               MFCC = np.expand dims(MFCC, axis=-1)
55
               X[cnt] = MFCC
56
57
           else:
58
                # Log-melspectogram
               melspec = librosa.feature.melspectrogram(data, n mels = n melspec)
59
60
               logspec = librosa.amplitude to db(melspec)
61
               logspec = np.expand dims(logspec, axis=-1)
62
               X[cnt,] = logspec
63
64
           cnt += 1
65
66
       return X
67
68
69
   3. Confusion matrix plot
70
71
72
  def print confusion matrix(confusion matrix, class names, figsize = (10,7), fontsize=14):
        '''Prints a confusion matrix, as returned by sklearn.metrics.confusion matrix, as a heatmap.
73
74
75
       Arguments
76
77
       confusion matrix: numpy.ndarray
78
           The numpy.ndarray object returned from a call to sklearn.metrics.confusion matrix.
79
           Similarly constructed ndarrays can also be used.
80
        class names: list
81
           An ordered list of class names, in the order they index the given confusion matrix.
82
       figsize: tuple
83
           A 2-long tuple, the first value determining the horizontal size of the ouputted figure,
```

```
84
            the second determining the vertical size. Defaults to (10,7).
 85
         fontsize: int
 86
            Font size for axes labels. Defaults to 14.
 87
 88
        Returns
 89
         _____
 90
        matplotlib.figure.Figure
 91
            The resulting confusion matrix figure
         1.1.1
 92
 93
        df cm = pd.DataFrame(
            confusion matrix, index=class names, columns=class names,
 94
 95
 96
        fig = plt.figure(figsize=figsize)
 97
         trv:
 98
            heatmap = sns.heatmap(df cm, annot=True, fmt="d")
 99
         except ValueError:
100
            raise ValueError("Confusion matrix values must be integers.")
101
102
         heatmap.yaxis.set ticklabels(heatmap.yaxis.get ticklabels(), rotation=0, ha='right', fontsize=fontsize)
103
         heatmap.xaxis.set ticklabels(heatmap.xaxis.get ticklabels(), rotation=45, ha='right', fontsize=fontsize
        plt.ylabel('True label')
104
105
         plt.xlabel('Predicted label')
106
107
108
109
110 # 4. Create the 2D CNN model
111
112 def get 2d conv model(n):
         ''' Create a standard deep 2D convolutional neural network'''
113
114
         nclass = 14
115
         inp = Input(shape=(n,216,1)) #2D matrix of 30 MFCC bands by 216 audio length.
        x = Convolution2D(32, (4,10), padding="same")(inp)
116
117
        x = BatchNormalization()(x)
        x = Activation("relu")(x)
118
119
        x = MaxPool2D()(x)
120
        x = Dropout(rate=0.2)(x)
121
        x = Convolution2D(32, (4,10), padding="same")(x)
122
123
        x = BatchNormalization()(x)
        x = Activation("relu")(x)
124
125
         x = MaxPool2D()(x)
```

```
126
        x = Dropout(rate=0.2)(x)
127
128
        x = Convolution2D(32, (4,10), padding="same")(x)
129
        x = BatchNormalization()(x)
130
        x = Activation("relu")(x)
131
        x = MaxPool2D()(x)
132
        x = Dropout(rate=0.2)(x)
133
134
        x = Convolution2D(32, (4,10), padding="same")(x)
135
        x = BatchNormalization()(x)
        x = Activation("relu")(x)
136
137
        x = MaxPool2D()(x)
138
        x = Dropout(rate=0.2)(x)
139
140
        x = Flatten()(x)
141
        x = Dense(64)(x)
142
        x = Dropout(rate=0.2)(x)
143
        x = BatchNormalization()(x)
144
        x = Activation("relu")(x)
145
        x = Dropout(rate=0.2)(x)
146
147
        out = Dense(nclass, activation=softmax)(x)
148
        model = models.Model(inputs=inp, outputs=out)
149
150
        opt = optimizers.Adam(0.0001)
151 #
          opt = keras.optimizers.RMSprop(lr=0.00001, decay=1e-6)
        model.compile(optimizer=opt, loss=losses.categorical crossentropy, metrics=['acc'])
152
        model.summary()
153
154
         return model
155
156
157 # 5. Other functions
158
159
    class get results:
160
161
        We're going to create a class (blueprint template) for generating the results based on the various mode
162
         So instead of repeating the functions each time, we assign the results into on object with its associat
163
        depending on each combination:
164
            1) MFCC with no augmentation
165
            2) MFCC with augmentation
166
            3) Logmelspec with no augmentation
167
            4) Logmelspec with augmentation
```

```
1.1.1
168
169
        def init (self, model history, model ,X test, y test, labels):
170
171
             self.model history = model history
172
            self.model = model
173
            self.X test = X test
174
            self.y test = y test
175
            self.labels = labels
176
177
        def create plot(self, model history):
             '''Check the logloss of both train and validation, make sure they are close and have plateau'''
178
179
            plt.plot(model history.history['loss'])
            plt.plot(model history.history['val loss'])
180
181
            plt.title('model loss')
182
            plt.ylabel('loss')
183
            plt.xlabel('epoch')
            plt.legend(['train', 'test'], loc='upper left')
184
185
            plt.show()
186
187
        def create results(self, model):
             '''predict on test set and get accuracy results'''
188
            opt = optimizers.Adam(0.001)
189
190
            model.compile(loss='categorical crossentropy', optimizer=opt, metrics=['accuracy'])
            score = model.evaluate(X test, y test, verbose=0)
191
            print("%s: %.2f%%" % (model.metrics names[1], score[1]*100))
192
193
194
        def confusion results(self, X test, y test, labels, model):
             '''plot confusion matrix results'''
195
196
            preds = model.predict(X test,
197
                                      batch size=16,
198
                                      verbose=2)
199
            preds=preds.argmax(axis=1)
200
            preds = preds.astype(int).flatten()
201
            preds = (lb.inverse transform((preds)))
202
203
            actual = y test.argmax(axis=1)
204
            actual = actual.astype(int).flatten()
205
            actual = (lb.inverse transform((actual)))
206
207
            classes = labels
208
            classes.sort()
209
```

```
c = confusion matrix(actual, preds)
210
             print confusion matrix(c, class names = classes)
211
212
        def accuracy results gender(self, X test, y test, labels, model):
213
             '''Print out the accuracy score and confusion matrix heat map of the Gender classification results
214
215
216
             preds = model.predict(X test,
217
                               batch size=16,
218
                               verbose=2)
219
             preds=preds.argmax(axis=1)
             preds = preds.astype(int).flatten()
220
221
             preds = (lb.inverse transform((preds)))
222
223
             actual = y test.argmax(axis=1)
224
             actual = actual.astype(int).flatten()
225
             actual = (lb.inverse transform((actual)))
226
             # print(accuracy score(actual, preds))
227
228
229
             actual = pd.DataFrame(actual).replace({'female angry':'female'
                         , 'female disgust':'female
230
                           'female fear': 'female'
231
                           'female happy':'female'
232
233
                           'female sad': 'female'
234
                           'female surprise': 'female'
235
                           'female neutral':'female
236
                           'male angry': 'male'
                           'male fear': 'male'
237
                           'male happy':'male'
238
239
                           'male sad': 'male'
                           'male surprise': 'male'
240
241
                           'male neutral': 'male'
242
                           'male disgust': 'male'
243
                       })
244
             preds = pd.DataFrame(preds).replace({'female angry':'female'
                    , 'female disgust': 'female'
245
                      'female fear':'female'
246
                       'female happy':'female'
247
                       'female sad': 'female'
248
                       'female surprise':'female'
249
                       'female neutral':'female'
250
251
                       'male angry': 'male'
```

```
252
                      'male fear': 'male'
253
                      'male happy':'male'
                      'male_sad':'male'
254
                      'male surprise': 'male'
255
                      'male neutral': 'male'
256
                      'male disgust': 'male'
257
258
                   })
259
260
            classes = actual.loc[:,0].unique()
261
            classes.sort()
262
263
            c = confusion matrix(actual, preds)
264
            print(accuracy score(actual, preds))
265
            print_confusion_matrix(c, class_names = classes)
```

```
1 sampling rate=44100
In [4]:
         2 audio duration=2.5
         3 \text{ n mfcc} = 30
         4 mfcc = prepare data(ref, n = n mfcc, aug = 0, mfcc = 1)
            # Split between train and test
         7 X train, X test, y train, y test = train test split(mfcc
                                                                 , ref.labels
         9
                                                                 , test size=0.25
                                                                 , shuffle=True
        10
        11
                                                                 , random state=42
        12
        13
        14
        15 # one hot encode the target
        16 lb = LabelEncoder()
        17 y train = np utils.to categorical(lb.fit transform(y train))
        18 y test = np utils.to categorical(lb.fit transform(y test))
        19
        20 # Normalization as per the standard NN process
        21 mean = np.mean(X train, axis=0)
        22 std = np.std(X train, axis=0)
        23
        24 X train = (X train - mean)/std
        25 X test = (X test - mean)/std
        2.6
        27 # Build CNN model
        28 model = get 2d conv model(n=n mfcc)
            model history = model.fit(X train, y train, validation data=(X test, y test),
                                batch size=16, verbose = 2, epochs=1000)
        30
```

```
100% | 1440/1440 [01:20<00:00, 17.94it/s]
```

2022-10-20 15:49:52.195491: I tensorflow/core/common_runtime/pluggable_device/pluggable_device_factory.cc:30 6] Could not identify NUMA node of platform GPU ID 0, defaulting to 0. Your kernel may not have been built with NUMA support.

2022-10-20 15:49:52.195687: I tensorflow/core/common_runtime/pluggable_device/pluggable_device_factory.cc:27 2] Created TensorFlow device (/job:localhost/replica:0/task:0/device:GPU:0 with 0 MB memory) -> physical Plug gableDevice (device: 0, name: METAL, pci bus id: <undefined>)

Metal device set to: Apple M2

Model: "model"

Layer (type)	Output Shape	Param #
input_1 (InputLayer)	[(None, 30, 216, 1)]	0
conv2d (Conv2D)	(None, 30, 216, 32)	1312
<pre>batch_normalization (BatchN ormalization)</pre>	(None, 30, 216, 32)	128
activation (Activation)	(None, 30, 216, 32)	0
<pre>max_pooling2d (MaxPooling2D)</pre>	(None, 15, 108, 32)	0
dropout (Dropout)	(None, 15, 108, 32)	0
conv2d_1 (Conv2D)	(None, 15, 108, 32)	40992
<pre>batch_normalization_1 (Batc hNormalization)</pre>	(None, 15, 108, 32)	128
activation_1 (Activation)	(None, 15, 108, 32)	0
<pre>max_pooling2d_1 (MaxPooling 2D)</pre>	(None, 7, 54, 32)	0
dropout_1 (Dropout)	(None, 7, 54, 32)	0
conv2d_2 (Conv2D)	(None, 7, 54, 32)	40992
<pre>batch_normalization_2 (Batc hNormalization)</pre>	(None, 7, 54, 32)	128
activation_2 (Activation)	(None, 7, 54, 32)	0
<pre>max_pooling2d_2 (MaxPooling 2D)</pre>	(None, 3, 27, 32)	0
dropout_2 (Dropout)	(None, 3, 27, 32)	0

conv2d_3 (Conv2D)	(None, 3, 27, 32)	40992
<pre>batch_normalization_3 (Batc hNormalization)</pre>	(None, 3, 27, 32)	128
activation_3 (Activation)	(None, 3, 27, 32)	0
<pre>max_pooling2d_3 (MaxPooling 2D)</pre>	(None, 1, 13, 32)	0
<pre>dropout_3 (Dropout)</pre>	(None, 1, 13, 32)	0
flatten (Flatten)	(None, 416)	0
dense (Dense)	(None, 64)	26688
dropout_4 (Dropout)	(None, 64)	0
<pre>batch_normalization_4 (Batc hNormalization)</pre>	(None, 64)	256
activation_4 (Activation)	(None, 64)	0
dropout_5 (Dropout)	(None, 64)	0
dense_1 (Dense)	(None, 14)	910

Total params: 152,654 Trainable params: 152,270 Non-trainable params: 384

Epoch 1/1000

2022-10-20 15:49:52.485369: W tensorflow/core/platform/profile utils/cpu utils.cc:128] Failed to get CPU freq uency: 0 Hz

2022-10-20 15:49:52.923324: I tensorflow/core/grappler/optimizers/custom graph optimizer registry.cc:114] Plu gin optimizer for device type GPU is enabled.

2022-10-20 15:49:55.539270: I tensorflow/core/grappler/optimizers/custom graph optimizer registry.cc:114] Plu gin optimizer for device type GPU is enabled.

68/68 - 3s - loss: 2.8945 - acc: 0.0944 - val_loss: 2.6955 - val_acc: 0.0722 - 3s/epoch - 49ms/step



```
Epoch 2/1000
68/68 - 3s - loss: 2.6079 - acc: 0.1602 - val loss: 2.7255 - val acc: 0.0694 - 3s/epoch - 37ms/step
Epoch 3/1000
68/68 - 3s - loss: 2.4718 - acc: 0.1907 - val loss: 2.7404 - val acc: 0.0694 - 3s/epoch - 39ms/step
Epoch 4/1000
68/68 - 3s - loss: 2.3443 - acc: 0.2472 - val loss: 2.7160 - val acc: 0.0639 - 3s/epoch - 41ms/step
Epoch 5/1000
68/68 - 3s - loss: 2.2429 - acc: 0.2787 - val loss: 2.6566 - val acc: 0.0750 - 3s/epoch - 41ms/step
Epoch 6/1000
68/68 - 3s - loss: 2.1922 - acc: 0.2815 - val loss: 2.5534 - val acc: 0.1361 - 3s/epoch - 43ms/step
Epoch 7/1000
68/68 - 2s - loss: 2.1741 - acc: 0.2944 - val loss: 2.4743 - val acc: 0.1722 - 2s/epoch - 37ms/step
Epoch 8/1000
68/68 - 3s - loss: 2.1241 - acc: 0.3019 - val loss: 2.4371 - val acc: 0.1667 - 3s/epoch - 38ms/step
Epoch 9/1000
68/68 - 3s - loss: 2.0690 - acc: 0.3343 - val loss: 2.4145 - val acc: 0.1944 - 3s/epoch - 39ms/step
Epoch 10/1000
68/68 - 2s - loss: 2.0163 - acc: 0.3546 - val loss: 2.4168 - val acc: 0.1889 - 2s/epoch - 36ms/step
Epoch 11/1000
68/68 - 2s - loss: 1.9698 - acc: 0.3602 - val loss: 2.3570 - val acc: 0.2361 - 2s/epoch - 36ms/step
Epoch 12/1000
68/68 - 2s - loss: 1.9551 - acc: 0.3509 - val loss: 2.3667 - val acc: 0.2333 - 2s/epoch - 36ms/step
Epoch 13/1000
68/68 - 2s - loss: 1.9069 - acc: 0.3750 - val loss: 2.3390 - val acc: 0.2667 - 2s/epoch - 36ms/step
Epoch 14/1000
68/68 - 2s - loss: 1.8578 - acc: 0.4037 - val loss: 2.3244 - val acc: 0.2667 - 2s/epoch - 36ms/step
Epoch 15/1000
68/68 - 2s - loss: 1.8336 - acc: 0.3889 - val loss: 2.2603 - val acc: 0.2833 - 2s/epoch - 36ms/step
Epoch 16/1000
68/68 - 2s - loss: 1.8073 - acc: 0.4204 - val loss: 2.2525 - val acc: 0.2861 - 2s/epoch - 36ms/step
Epoch 17/1000
68/68 - 2s - loss: 1.7480 - acc: 0.4546 - val loss: 2.2133 - val acc: 0.2861 - 2s/epoch - 36ms/step
Epoch 18/1000
68/68 - 3s - loss: 1.6702 - acc: 0.4843 - val loss: 2.1721 - val acc: 0.3111 - 3s/epoch - 38ms/step
Epoch 19/1000
68/68 - 2s - loss: 1.6421 - acc: 0.4824 - val loss: 2.1929 - val acc: 0.3139 - 2s/epoch - 36ms/step
Epoch 20/1000
68/68 - 2s - loss: 1.6340 - acc: 0.4852 - val loss: 2.0912 - val acc: 0.3056 - 2s/epoch - 36ms/step
Epoch 21/1000
68/68 - 2s - loss: 1.5772 - acc: 0.5093 - val loss: 2.0671 - val acc: 0.3083 - 2s/epoch - 36ms/step
Epoch 22/1000
68/68 - 2s - loss: 1.5284 - acc: 0.5278 - val loss: 2.0886 - val acc: 0.2944 - 2s/epoch - 36ms/step
```

```
Epoch 23/1000
68/68 - 2s - loss: 1.4858 - acc: 0.5343 - val loss: 2.0918 - val acc: 0.3250 - 2s/epoch - 36ms/step
Epoch 24/1000
68/68 - 2s - loss: 1.4535 - acc: 0.5704 - val loss: 2.0318 - val acc: 0.3444 - 2s/epoch - 36ms/step
Epoch 25/1000
68/68 - 2s - loss: 1.4088 - acc: 0.5593 - val loss: 2.0264 - val acc: 0.3250 - 2s/epoch - 36ms/step
Epoch 26/1000
68/68 - 2s - loss: 1.3769 - acc: 0.5898 - val loss: 1.9588 - val acc: 0.3861 - 2s/epoch - 36ms/step
Epoch 27/1000
68/68 - 3s - loss: 1.3873 - acc: 0.5917 - val loss: 1.9688 - val acc: 0.3639 - 3s/epoch - 39ms/step
Epoch 28/1000
68/68 - 3s - loss: 1.3304 - acc: 0.5954 - val loss: 1.9142 - val acc: 0.4056 - 3s/epoch - 38ms/step
Epoch 29/1000
68/68 - 3s - loss: 1.2676 - acc: 0.6315 - val loss: 1.8989 - val acc: 0.4222 - 3s/epoch - 37ms/step
Epoch 30/1000
68/68 - 2s - loss: 1.2679 - acc: 0.6259 - val loss: 1.8802 - val acc: 0.4083 - 2s/epoch - 36ms/step
Epoch 31/1000
68/68 - 2s - loss: 1.1775 - acc: 0.6602 - val loss: 1.7830 - val acc: 0.4278 - 2s/epoch - 36ms/step
Epoch 32/1000
68/68 - 3s - loss: 1.1601 - acc: 0.6926 - val loss: 1.8645 - val acc: 0.4361 - 3s/epoch - 38ms/step
Epoch 33/1000
68/68 - 2s - loss: 1.1218 - acc: 0.6852 - val loss: 1.8618 - val acc: 0.4250 - 2s/epoch - 36ms/step
Epoch 34/1000
68/68 - 2s - loss: 1.1100 - acc: 0.6954 - val loss: 1.7347 - val acc: 0.4806 - 2s/epoch - 36ms/step
Epoch 35/1000
68/68 - 2s - loss: 1.0987 - acc: 0.7083 - val loss: 1.7891 - val acc: 0.4306 - 2s/epoch - 36ms/step
Epoch 36/1000
68/68 - 2s - loss: 1.0719 - acc: 0.6944 - val loss: 1.7118 - val acc: 0.4833 - 2s/epoch - 36ms/step
Epoch 37/1000
68/68 - 2s - loss: 1.0230 - acc: 0.7231 - val loss: 1.7897 - val acc: 0.4083 - 2s/epoch - 37ms/step
Epoch 38/1000
68/68 - 3s - loss: 1.0239 - acc: 0.7185 - val loss: 1.7708 - val acc: 0.4472 - 3s/epoch - 39ms/step
Epoch 39/1000
68/68 - 3s - loss: 0.9574 - acc: 0.7435 - val loss: 1.8441 - val acc: 0.4056 - 3s/epoch - 43ms/step
Epoch 40/1000
68/68 - 3s - loss: 0.9221 - acc: 0.7676 - val loss: 1.6791 - val acc: 0.5028 - 3s/epoch - 43ms/step
Epoch 41/1000
68/68 - 3s - loss: 0.9112 - acc: 0.7685 - val loss: 1.6962 - val acc: 0.4444 - 3s/epoch - 38ms/step
Epoch 42/1000
68/68 - 3s - loss: 0.8825 - acc: 0.7750 - val loss: 1.5991 - val acc: 0.5444 - 3s/epoch - 38ms/step
Epoch 43/1000
68/68 - 3s - loss: 0.8665 - acc: 0.7750 - val loss: 1.6184 - val acc: 0.5139 - 3s/epoch - 39ms/step
```

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Epoch 44/1000
68/68 - 3s - loss: 0.8618 - acc: 0.7778 - val loss: 1.7292 - val acc: 0.4222 - 3s/epoch - 37ms/step
Epoch 45/1000
68/68 - 3s - loss: 0.8046 - acc: 0.8148 - val loss: 1.7522 - val acc: 0.4722 - 3s/epoch - 40ms/step
Epoch 46/1000
68/68 - 3s - loss: 0.7758 - acc: 0.8213 - val loss: 1.5825 - val acc: 0.5417 - 3s/epoch - 37ms/step
Epoch 47/1000
68/68 - 2s - loss: 0.7668 - acc: 0.8065 - val loss: 1.5286 - val acc: 0.5250 - 2s/epoch - 36ms/step
Epoch 48/1000
68/68 - 3s - loss: 0.7230 - acc: 0.8426 - val loss: 1.5371 - val acc: 0.5250 - 3s/epoch - 37ms/step
Epoch 49/1000
68/68 - 3s - loss: 0.7365 - acc: 0.8231 - val loss: 1.4589 - val acc: 0.5694 - 3s/epoch - 40ms/step
Epoch 50/1000
68/68 - 3s - loss: 0.6902 - acc: 0.8481 - val loss: 1.6368 - val acc: 0.4750 - 3s/epoch - 38ms/step
Epoch 51/1000
68/68 - 3s - loss: 0.7000 - acc: 0.8519 - val loss: 1.5503 - val acc: 0.5194 - 3s/epoch - 40ms/step
Epoch 52/1000
68/68 - 3s - loss: 0.6734 - acc: 0.8380 - val loss: 1.5017 - val acc: 0.5361 - 3s/epoch - 39ms/step
Epoch 53/1000
68/68 - 3s - loss: 0.6363 - acc: 0.8537 - val loss: 1.6584 - val acc: 0.4611 - 3s/epoch - 38ms/step
Epoch 54/1000
68/68 - 3s - loss: 0.6533 - acc: 0.8463 - val loss: 1.5634 - val acc: 0.5056 - 3s/epoch - 40ms/step
Epoch 55/1000
68/68 - 3s - loss: 0.5959 - acc: 0.8741 - val loss: 1.4567 - val acc: 0.5639 - 3s/epoch - 42ms/step
Epoch 56/1000
68/68 - 3s - loss: 0.5886 - acc: 0.8750 - val loss: 1.5032 - val acc: 0.5139 - 3s/epoch - 42ms/step
Epoch 57/1000
68/68 - 3s - loss: 0.5694 - acc: 0.8787 - val loss: 1.5186 - val acc: 0.5083 - 3s/epoch - 39ms/step
Epoch 58/1000
68/68 - 3s - loss: 0.5456 - acc: 0.8852 - val loss: 1.5213 - val acc: 0.5194 - 3s/epoch - 39ms/step
Epoch 59/1000
68/68 - 3s - loss: 0.5469 - acc: 0.8917 - val loss: 1.5322 - val acc: 0.4917 - 3s/epoch - 37ms/step
Epoch 60/1000
68/68 - 3s - loss: 0.4854 - acc: 0.9157 - val loss: 1.4333 - val acc: 0.5278 - 3s/epoch - 37ms/step
Epoch 61/1000
68/68 - 3s - loss: 0.5083 - acc: 0.8870 - val loss: 1.3688 - val acc: 0.5917 - 3s/epoch - 37ms/step
Epoch 62/1000
68/68 - 2s - loss: 0.5000 - acc: 0.9111 - val loss: 1.5366 - val acc: 0.4583 - 2s/epoch - 36ms/step
Epoch 63/1000
68/68 - 3s - loss: 0.4849 - acc: 0.9074 - val loss: 1.4674 - val acc: 0.5139 - 3s/epoch - 39ms/step
Epoch 64/1000
68/68 - 3s - loss: 0.4855 - acc: 0.9083 - val loss: 1.5530 - val acc: 0.4667 - 3s/epoch - 39ms/step
```

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Epoch 65/1000
68/68 - 3s - loss: 0.4408 - acc: 0.9130 - val loss: 1.6555 - val acc: 0.4333 - 3s/epoch - 37ms/step
Epoch 66/1000
68/68 - 3s - loss: 0.4401 - acc: 0.9259 - val loss: 1.3725 - val acc: 0.5639 - 3s/epoch - 43ms/step
Epoch 67/1000
68/68 - 3s - loss: 0.4228 - acc: 0.9148 - val loss: 1.4753 - val acc: 0.5083 - 3s/epoch - 44ms/step
Epoch 68/1000
68/68 - 3s - loss: 0.4211 - acc: 0.9250 - val loss: 1.4951 - val acc: 0.5139 - 3s/epoch - 43ms/step
Epoch 69/1000
68/68 - 3s - loss: 0.3927 - acc: 0.9343 - val loss: 1.3601 - val acc: 0.5417 - 3s/epoch - 39ms/step
Epoch 70/1000
68/68 - 3s - loss: 0.3842 - acc: 0.9324 - val loss: 1.5879 - val acc: 0.4806 - 3s/epoch - 40ms/step
Epoch 71/1000
68/68 - 3s - loss: 0.3728 - acc: 0.9231 - val loss: 1.2728 - val acc: 0.5722 - 3s/epoch - 41ms/step
Epoch 72/1000
68/68 - 3s - loss: 0.3883 - acc: 0.9306 - val loss: 1.3763 - val acc: 0.5722 - 3s/epoch - 39ms/step
Epoch 73/1000
68/68 - 3s - loss: 0.3753 - acc: 0.9306 - val loss: 1.4096 - val acc: 0.4972 - 3s/epoch - 42ms/step
Epoch 74/1000
68/68 - 3s - loss: 0.3641 - acc: 0.9306 - val loss: 1.2564 - val acc: 0.6028 - 3s/epoch - 39ms/step
Epoch 75/1000
68/68 - 3s - loss: 0.3438 - acc: 0.9417 - val loss: 1.2226 - val acc: 0.5972 - 3s/epoch - 42ms/step
Epoch 76/1000
68/68 - 3s - loss: 0.3282 - acc: 0.9398 - val loss: 1.3622 - val acc: 0.5611 - 3s/epoch - 41ms/step
Epoch 77/1000
68/68 - 3s - loss: 0.3637 - acc: 0.9306 - val loss: 1.5269 - val acc: 0.5111 - 3s/epoch - 38ms/step
Epoch 78/1000
68/68 - 3s - loss: 0.3164 - acc: 0.9537 - val loss: 1.2996 - val acc: 0.5556 - 3s/epoch - 38ms/step
Epoch 79/1000
68/68 - 3s - loss: 0.3133 - acc: 0.9454 - val loss: 1.3734 - val acc: 0.5500 - 3s/epoch - 38ms/step
Epoch 80/1000
68/68 - 3s - loss: 0.2994 - acc: 0.9528 - val loss: 1.3861 - val acc: 0.5222 - 3s/epoch - 38ms/step
Epoch 81/1000
68/68 - 3s - loss: 0.2895 - acc: 0.9565 - val loss: 1.2224 - val acc: 0.5944 - 3s/epoch - 38ms/step
Epoch 82/1000
68/68 - 3s - loss: 0.2895 - acc: 0.9472 - val loss: 1.2963 - val acc: 0.5833 - 3s/epoch - 40ms/step
Epoch 83/1000
68/68 - 3s - loss: 0.2671 - acc: 0.9528 - val loss: 1.3562 - val acc: 0.5528 - 3s/epoch - 42ms/step
Epoch 84/1000
68/68 - 3s - loss: 0.2582 - acc: 0.9593 - val loss: 1.2769 - val acc: 0.5639 - 3s/epoch - 38ms/step
Epoch 85/1000
68/68 - 3s - loss: 0.2537 - acc: 0.9611 - val loss: 1.2222 - val acc: 0.6083 - 3s/epoch - 37ms/step
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Epoch 86/1000 68/68 - 3s - loss: 0.2560 - acc: 0.9602 - val loss: 1.4603 - val acc: 0.5083 - 3s/epoch - 37ms/step Epoch 87/1000 68/68 - 3s - loss: 0.2381 - acc: 0.9787 - val loss: 1.1312 - val acc: 0.6444 - 3s/epoch - 38ms/step Epoch 88/1000 68/68 - 3s - loss: 0.2400 - acc: 0.9694 - val loss: 1.3763 - val acc: 0.5306 - 3s/epoch - 40ms/step Epoch 89/1000 68/68 - 3s - loss: 0.2218 - acc: 0.9694 - val loss: 1.4503 - val acc: 0.4917 - 3s/epoch - 38ms/step Epoch 90/1000 68/68 - 3s - loss: 0.2110 - acc: 0.9657 - val loss: 1.1649 - val acc: 0.6111 - 3s/epoch - 42ms/step Epoch 91/1000 68/68 - 3s - loss: 0.2177 - acc: 0.9769 - val loss: 1.2012 - val acc: 0.6000 - 3s/epoch - 38ms/step Epoch 92/1000 68/68 - 3s - loss: 0.2197 - acc: 0.9676 - val loss: 1.0601 - val acc: 0.6806 - 3s/epoch - 44ms/step Epoch 93/1000 68/68 - 3s - loss: 0.1991 - acc: 0.9704 - val loss: 1.3369 - val acc: 0.5417 - 3s/epoch - 39ms/step Epoch 94/1000 68/68 - 3s - loss: 0.2105 - acc: 0.9750 - val loss: 1.2065 - val acc: 0.5889 - 3s/epoch - 39ms/step Epoch 95/1000 68/68 - 3s - loss: 0.1712 - acc: 0.9843 - val loss: 1.1644 - val acc: 0.6222 - 3s/epoch - 39ms/step Epoch 96/1000 68/68 - 3s - loss: 0.1766 - acc: 0.9796 - val loss: 1.2017 - val acc: 0.6028 - 3s/epoch - 39ms/step Epoch 97/1000 68/68 - 3s - loss: 0.1918 - acc: 0.9685 - val loss: 1.3473 - val acc: 0.5472 - 3s/epoch - 44ms/step Epoch 98/1000 68/68 - 3s - loss: 0.1636 - acc: 0.9806 - val loss: 1.1002 - val acc: 0.6500 - 3s/epoch - 40ms/step Epoch 99/1000 68/68 - 3s - loss: 0.1706 - acc: 0.9787 - val loss: 1.2408 - val acc: 0.5583 - 3s/epoch - 39ms/step Epoch 100/1000 68/68 - 3s - loss: 0.1733 - acc: 0.9806 - val loss: 1.2003 - val acc: 0.5917 - 3s/epoch - 40ms/step Epoch 101/1000 68/68 - 3s - loss: 0.1708 - acc: 0.9806 - val loss: 1.0917 - val acc: 0.6444 - 3s/epoch - 40ms/step Epoch 102/1000 68/68 - 3s - loss: 0.1635 - acc: 0.9815 - val loss: 1.2737 - val acc: 0.5722 - 3s/epoch - 39ms/step Epoch 103/1000 68/68 - 3s - loss: 0.1467 - acc: 0.9833 - val loss: 1.1991 - val acc: 0.6139 - 3s/epoch - 42ms/step Epoch 104/1000 68/68 - 3s - loss: 0.1551 - acc: 0.9824 - val loss: 1.2375 - val acc: 0.5917 - 3s/epoch - 39ms/step Epoch 105/1000 68/68 - 3s - loss: 0.1509 - acc: 0.9796 - val loss: 1.2355 - val acc: 0.5694 - 3s/epoch - 39ms/step Epoch 106/1000 68/68 - 3s - loss: 0.1263 - acc: 0.9889 - val loss: 1.0427 - val acc: 0.6500 - 3s/epoch - 41ms/step Epoch 107/1000 68/68 - 3s - loss: 0.1310 - acc: 0.9861 - val loss: 1.1418 - val acc: 0.6083 - 3s/epoch - 39ms/step Epoch 108/1000 68/68 - 3s - loss: 0.1405 - acc: 0.9852 - val loss: 1.4564 - val acc: 0.5222 - 3s/epoch - 40ms/step Epoch 109/1000 68/68 - 3s - loss: 0.1202 - acc: 0.9898 - val loss: 1.0871 - val acc: 0.6222 - 3s/epoch - 39ms/step Epoch 110/1000 68/68 - 3s - loss: 0.1255 - acc: 0.9898 - val loss: 1.2892 - val acc: 0.5694 - 3s/epoch - 39ms/step Epoch 111/1000 68/68 - 3s - loss: 0.1196 - acc: 0.9889 - val loss: 1.2841 - val acc: 0.5667 - 3s/epoch - 40ms/step Epoch 112/1000 68/68 - 3s - loss: 0.1317 - acc: 0.9833 - val loss: 1.3493 - val acc: 0.5306 - 3s/epoch - 42ms/step Epoch 113/1000 68/68 - 3s - loss: 0.1264 - acc: 0.9898 - val loss: 1.2333 - val acc: 0.5861 - 3s/epoch - 43ms/step Epoch 114/1000 68/68 - 3s - loss: 0.1207 - acc: 0.9852 - val loss: 1.1415 - val acc: 0.5972 - 3s/epoch - 42ms/step Epoch 115/1000 68/68 - 3s - loss: 0.1093 - acc: 0.9852 - val loss: 1.2501 - val acc: 0.5833 - 3s/epoch - 39ms/step Epoch 116/1000 68/68 - 3s - loss: 0.1003 - acc: 0.9907 - val loss: 0.9469 - val acc: 0.6778 - 3s/epoch - 41ms/step Epoch 117/1000 68/68 - 3s - loss: 0.1041 - acc: 0.9870 - val loss: 1.1983 - val acc: 0.5694 - 3s/epoch - 42ms/step Epoch 118/1000 68/68 - 3s - loss: 0.0991 - acc: 0.9898 - val loss: 1.1754 - val acc: 0.6000 - 3s/epoch - 42ms/step Epoch 119/1000 68/68 - 3s - loss: 0.1003 - acc: 0.9917 - val loss: 1.1396 - val acc: 0.6167 - 3s/epoch - 41ms/step Epoch 120/1000 68/68 - 3s - loss: 0.0938 - acc: 0.9917 - val loss: 1.1692 - val acc: 0.5972 - 3s/epoch - 39ms/step Epoch 121/1000 68/68 - 3s - loss: 0.0945 - acc: 0.9926 - val loss: 1.1048 - val acc: 0.6361 - 3s/epoch - 46ms/step Epoch 122/1000 68/68 - 3s - loss: 0.0997 - acc: 0.9870 - val loss: 1.0946 - val acc: 0.6417 - 3s/epoch - 49ms/step Epoch 123/1000 68/68 - 3s - loss: 0.1017 - acc: 0.9843 - val loss: 0.9415 - val acc: 0.7000 - 3s/epoch - 46ms/step Epoch 124/1000 68/68 - 3s - loss: 0.0965 - acc: 0.9926 - val_loss: 1.1594 - val_acc: 0.6111 - 3s/epoch - 46ms/step Epoch 125/1000 68/68 - 3s - loss: 0.1045 - acc: 0.9898 - val loss: 1.2365 - val acc: 0.6028 - 3s/epoch - 45ms/step Epoch 126/1000 68/68 - 4s - loss: 0.0859 - acc: 0.9944 - val loss: 1.0098 - val acc: 0.6528 - 4s/epoch - 52ms/step Epoch 127/1000 68/68 - 3s - loss: 0.0910 - acc: 0.9917 - val loss: 1.1218 - val acc: 0.6333 - 3s/epoch - 41ms/step

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Epoch 128/1000
68/68 - 3s - loss: 0.0848 - acc: 0.9926 - val loss: 1.0063 - val acc: 0.6750 - 3s/epoch - 39ms/step
Epoch 129/1000
68/68 - 3s - loss: 0.0758 - acc: 0.9954 - val loss: 1.1350 - val acc: 0.6361 - 3s/epoch - 39ms/step
Epoch 130/1000
68/68 - 3s - loss: 0.0790 - acc: 0.9954 - val loss: 0.9325 - val acc: 0.6750 - 3s/epoch - 44ms/step
Epoch 131/1000
68/68 - 3s - loss: 0.0755 - acc: 0.9926 - val loss: 1.2137 - val acc: 0.5944 - 3s/epoch - 44ms/step
Epoch 132/1000
68/68 - 3s - loss: 0.0747 - acc: 0.9944 - val loss: 1.0988 - val acc: 0.6278 - 3s/epoch - 40ms/step
Epoch 133/1000
68/68 - 3s - loss: 0.0704 - acc: 0.9963 - val loss: 1.0211 - val acc: 0.6583 - 3s/epoch - 42ms/step
Epoch 134/1000
68/68 - 3s - loss: 0.0658 - acc: 0.9935 - val loss: 1.1580 - val acc: 0.6139 - 3s/epoch - 40ms/step
Epoch 135/1000
68/68 - 4s - loss: 0.0792 - acc: 0.9935 - val loss: 1.2112 - val acc: 0.5861 - 4s/epoch - 52ms/step
Epoch 136/1000
68/68 - 3s - loss: 0.0701 - acc: 0.9926 - val loss: 0.9499 - val acc: 0.6972 - 3s/epoch - 37ms/step
Epoch 137/1000
68/68 - 3s - loss: 0.0737 - acc: 0.9926 - val loss: 1.2811 - val acc: 0.5972 - 3s/epoch - 49ms/step
Epoch 138/1000
68/68 - 3s - loss: 0.0692 - acc: 0.9917 - val loss: 0.9673 - val acc: 0.6944 - 3s/epoch - 38ms/step
Epoch 139/1000
68/68 - 3s - loss: 0.0631 - acc: 0.9944 - val loss: 0.9174 - val acc: 0.7083 - 3s/epoch - 38ms/step
Epoch 140/1000
68/68 - 3s - loss: 0.0656 - acc: 0.9944 - val loss: 0.9580 - val acc: 0.6639 - 3s/epoch - 38ms/step
Epoch 141/1000
68/68 - 3s - loss: 0.0589 - acc: 0.9944 - val loss: 1.0728 - val acc: 0.6389 - 3s/epoch - 38ms/step
Epoch 142/1000
68/68 - 3s - loss: 0.0550 - acc: 0.9963 - val loss: 1.0805 - val acc: 0.6556 - 3s/epoch - 38ms/step
Epoch 143/1000
68/68 - 3s - loss: 0.0590 - acc: 0.9926 - val loss: 0.9824 - val acc: 0.6500 - 3s/epoch - 38ms/step
Epoch 144/1000
68/68 - 3s - loss: 0.0581 - acc: 0.9935 - val loss: 1.2945 - val acc: 0.5528 - 3s/epoch - 38ms/step
Epoch 145/1000
68/68 - 3s - loss: 0.0555 - acc: 0.9963 - val loss: 1.1633 - val acc: 0.6222 - 3s/epoch - 38ms/step
Epoch 146/1000
68/68 - 3s - loss: 0.0521 - acc: 0.9954 - val loss: 1.0805 - val acc: 0.6389 - 3s/epoch - 38ms/step
Epoch 147/1000
68/68 - 3s - loss: 0.0680 - acc: 0.9926 - val loss: 1.0337 - val acc: 0.6611 - 3s/epoch - 38ms/step
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Epoch 148/1000
68/68 - 3s - loss: 0.0510 - acc: 0.9963 - val loss: 1.0984 - val acc: 0.6694 - 3s/epoch - 38ms/step
Epoch 149/1000
68/68 - 3s - loss: 0.0554 - acc: 0.9926 - val loss: 1.0081 - val acc: 0.6833 - 3s/epoch - 41ms/step
Epoch 150/1000
68/68 - 3s - loss: 0.0529 - acc: 0.9972 - val loss: 1.0150 - val acc: 0.6556 - 3s/epoch - 38ms/step
Epoch 151/1000
68/68 - 3s - loss: 0.0545 - acc: 0.9926 - val loss: 0.9465 - val acc: 0.6861 - 3s/epoch - 38ms/step
Epoch 152/1000
68/68 - 3s - loss: 0.0561 - acc: 0.9963 - val loss: 1.1235 - val acc: 0.6500 - 3s/epoch - 38ms/step
Epoch 153/1000
68/68 - 3s - loss: 0.0407 - acc: 0.9991 - val loss: 1.0023 - val acc: 0.6667 - 3s/epoch - 38ms/step
Epoch 154/1000
68/68 - 3s - loss: 0.0498 - acc: 0.9954 - val loss: 1.2198 - val acc: 0.5917 - 3s/epoch - 38ms/step
Epoch 155/1000
68/68 - 3s - loss: 0.0469 - acc: 0.9963 - val loss: 1.3362 - val acc: 0.5750 - 3s/epoch - 38ms/step
Epoch 156/1000
68/68 - 3s - loss: 0.0384 - acc: 1.0000 - val loss: 0.8880 - val acc: 0.7083 - 3s/epoch - 38ms/step
Epoch 157/1000
68/68 - 3s - loss: 0.0422 - acc: 0.9972 - val loss: 1.0380 - val acc: 0.6750 - 3s/epoch - 38ms/step
Epoch 158/1000
68/68 - 4s - loss: 0.0343 - acc: 0.9991 - val loss: 1.1104 - val acc: 0.6472 - 4s/epoch - 61ms/step
Epoch 159/1000
68/68 - 3s - loss: 0.0419 - acc: 0.9981 - val loss: 1.0396 - val acc: 0.6778 - 3s/epoch - 47ms/step
Epoch 160/1000
68/68 - 3s - loss: 0.0327 - acc: 1.0000 - val loss: 0.9701 - val acc: 0.6611 - 3s/epoch - 43ms/step
Epoch 161/1000
68/68 - 3s - loss: 0.0372 - acc: 0.9981 - val loss: 0.9961 - val acc: 0.6722 - 3s/epoch - 38ms/step
Epoch 162/1000
68/68 - 3s - loss: 0.0359 - acc: 0.9954 - val loss: 1.0178 - val acc: 0.6639 - 3s/epoch - 38ms/step
Epoch 163/1000
68/68 - 3s - loss: 0.0383 - acc: 0.9981 - val loss: 1.1322 - val acc: 0.6139 - 3s/epoch - 50ms/step
Epoch 164/1000
68/68 - 4s - loss: 0.0370 - acc: 0.9981 - val loss: 1.0592 - val acc: 0.6833 - 4s/epoch - 56ms/step
Epoch 165/1000
68/68 - 4s - loss: 0.0446 - acc: 0.9944 - val loss: 0.9108 - val acc: 0.7028 - 4s/epoch - 52ms/step
Epoch 166/1000
68/68 - 3s - loss: 0.0455 - acc: 0.9972 - val loss: 1.0413 - val acc: 0.6583 - 3s/epoch - 50ms/step
Epoch 167/1000
68/68 - 3s - loss: 0.0369 - acc: 0.9981 - val loss: 1.2241 - val acc: 0.6000 - 3s/epoch - 50ms/step
Epoch 168/1000
68/68 - 3s - loss: 0.0351 - acc: 0.9981 - val loss: 1.0440 - val acc: 0.6778 - 3s/epoch - 40ms/step
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Epoch 169/1000
68/68 - 3s - loss: 0.0409 - acc: 0.9963 - val loss: 0.8814 - val acc: 0.7028 - 3s/epoch - 38ms/step
Epoch 170/1000
68/68 - 4s - loss: 0.0401 - acc: 0.9963 - val loss: 1.0923 - val acc: 0.6389 - 4s/epoch - 57ms/step
Epoch 171/1000
68/68 - 3s - loss: 0.0402 - acc: 0.9944 - val loss: 1.2390 - val acc: 0.5972 - 3s/epoch - 48ms/step
Epoch 172/1000
68/68 - 3s - loss: 0.0326 - acc: 1.0000 - val loss: 1.3539 - val acc: 0.5833 - 3s/epoch - 49ms/step
Epoch 173/1000
68/68 - 3s - loss: 0.0366 - acc: 0.9981 - val loss: 1.0559 - val acc: 0.6361 - 3s/epoch - 51ms/step
Epoch 174/1000
68/68 - 3s - loss: 0.0283 - acc: 0.9981 - val loss: 0.9100 - val acc: 0.6944 - 3s/epoch - 44ms/step
Epoch 175/1000
68/68 - 3s - loss: 0.0350 - acc: 0.9944 - val loss: 1.0001 - val acc: 0.6694 - 3s/epoch - 48ms/step
Epoch 176/1000
68/68 - 3s - loss: 0.0393 - acc: 0.9935 - val loss: 1.0723 - val acc: 0.6444 - 3s/epoch - 39ms/step
Epoch 177/1000
68/68 - 3s - loss: 0.0350 - acc: 0.9981 - val loss: 0.9695 - val acc: 0.6833 - 3s/epoch - 39ms/step
Epoch 178/1000
68/68 - 3s - loss: 0.0383 - acc: 0.9963 - val loss: 0.8696 - val acc: 0.7056 - 3s/epoch - 40ms/step
Epoch 179/1000
68/68 - 3s - loss: 0.0340 - acc: 0.9981 - val loss: 1.1132 - val acc: 0.6472 - 3s/epoch - 37ms/step
Epoch 180/1000
68/68 - 2s - loss: 0.0320 - acc: 0.9981 - val loss: 0.8681 - val acc: 0.7028 - 2s/epoch - 37ms/step
Epoch 181/1000
68/68 - 3s - loss: 0.0249 - acc: 1.0000 - val loss: 0.8617 - val acc: 0.7278 - 3s/epoch - 37ms/step
Epoch 182/1000
68/68 - 3s - loss: 0.0334 - acc: 0.9944 - val loss: 1.2419 - val acc: 0.6139 - 3s/epoch - 39ms/step
Epoch 183/1000
68/68 - 3s - loss: 0.0266 - acc: 0.9972 - val loss: 0.7924 - val acc: 0.7306 - 3s/epoch - 46ms/step
Epoch 184/1000
68/68 - 3s - loss: 0.0338 - acc: 0.9954 - val loss: 0.8101 - val acc: 0.7083 - 3s/epoch - 40ms/step
Epoch 185/1000
68/68 - 3s - loss: 0.0372 - acc: 0.9963 - val loss: 0.9960 - val acc: 0.6500 - 3s/epoch - 38ms/step
Epoch 186/1000
68/68 - 3s - loss: 0.0389 - acc: 0.9954 - val loss: 1.2376 - val acc: 0.5944 - 3s/epoch - 38ms/step
Epoch 187/1000
68/68 - 2s - loss: 0.0357 - acc: 0.9972 - val loss: 1.0735 - val acc: 0.6389 - 2s/epoch - 37ms/step
Epoch 188/1000
68/68 - 2s - loss: 0.0281 - acc: 1.0000 - val loss: 0.9090 - val acc: 0.6833 - 2s/epoch - 37ms/step
Epoch 189/1000
68/68 - 3s - loss: 0.0240 - acc: 0.9991 - val loss: 0.8937 - val acc: 0.7000 - 3s/epoch - 49ms/step
```

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Epoch 190/1000
68/68 - 3s - loss: 0.0215 - acc: 0.9991 - val loss: 1.0204 - val acc: 0.6444 - 3s/epoch - 39ms/step
Epoch 191/1000
68/68 - 3s - loss: 0.0240 - acc: 0.9981 - val loss: 0.9843 - val acc: 0.6611 - 3s/epoch - 37ms/step
Epoch 192/1000
68/68 - 2s - loss: 0.0223 - acc: 0.9991 - val loss: 0.9089 - val acc: 0.6722 - 2s/epoch - 36ms/step
Epoch 193/1000
68/68 - 3s - loss: 0.0259 - acc: 0.9972 - val loss: 1.0206 - val acc: 0.6694 - 3s/epoch - 38ms/step
Epoch 194/1000
68/68 - 3s - loss: 0.0297 - acc: 0.9935 - val loss: 0.8493 - val acc: 0.7528 - 3s/epoch - 39ms/step
Epoch 195/1000
68/68 - 3s - loss: 0.0349 - acc: 0.9963 - val loss: 0.9816 - val acc: 0.6694 - 3s/epoch - 37ms/step
Epoch 196/1000
68/68 - 2s - loss: 0.0273 - acc: 0.9972 - val loss: 0.9321 - val acc: 0.6861 - 2s/epoch - 36ms/step
Epoch 197/1000
68/68 - 2s - loss: 0.0247 - acc: 0.9981 - val loss: 1.0587 - val acc: 0.6444 - 2s/epoch - 36ms/step
Epoch 198/1000
68/68 - 3s - loss: 0.0245 - acc: 0.9972 - val loss: 1.0503 - val acc: 0.6556 - 3s/epoch - 43ms/step
Epoch 199/1000
68/68 - 2s - loss: 0.0255 - acc: 0.9981 - val loss: 1.1119 - val acc: 0.6194 - 2s/epoch - 36ms/step
Epoch 200/1000
68/68 - 3s - loss: 0.0253 - acc: 0.9981 - val loss: 0.8412 - val acc: 0.7194 - 3s/epoch - 37ms/step
Epoch 201/1000
68/68 - 3s - loss: 0.0236 - acc: 0.9981 - val loss: 1.0208 - val acc: 0.6750 - 3s/epoch - 39ms/step
Epoch 202/1000
68/68 - 3s - loss: 0.0211 - acc: 0.9991 - val loss: 0.9909 - val acc: 0.6722 - 3s/epoch - 41ms/step
Epoch 203/1000
68/68 - 3s - loss: 0.0220 - acc: 0.9991 - val loss: 1.0603 - val acc: 0.6722 - 3s/epoch - 40ms/step
Epoch 204/1000
68/68 - 3s - loss: 0.0199 - acc: 0.9991 - val loss: 1.3045 - val acc: 0.5917 - 3s/epoch - 47ms/step
Epoch 205/1000
68/68 - 3s - loss: 0.0195 - acc: 0.9991 - val loss: 0.8471 - val acc: 0.7333 - 3s/epoch - 43ms/step
Epoch 206/1000
68/68 - 3s - loss: 0.0305 - acc: 0.9954 - val loss: 0.7936 - val acc: 0.7417 - 3s/epoch - 45ms/step
Epoch 207/1000
68/68 - 3s - loss: 0.0349 - acc: 0.9944 - val loss: 0.9202 - val acc: 0.7000 - 3s/epoch - 45ms/step
Epoch 208/1000
68/68 - 3s - loss: 0.0213 - acc: 0.9991 - val loss: 1.0597 - val acc: 0.6306 - 3s/epoch - 44ms/step
Epoch 209/1000
68/68 - 3s - loss: 0.0223 - acc: 0.9981 - val loss: 0.9531 - val acc: 0.6917 - 3s/epoch - 44ms/step
Epoch 210/1000
68/68 - 3s - loss: 0.0205 - acc: 0.9954 - val loss: 1.1670 - val acc: 0.6500 - 3s/epoch - 43ms/step
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Epoch 211/1000
68/68 - 3s - loss: 0.0192 - acc: 1.0000 - val loss: 0.9057 - val acc: 0.7139 - 3s/epoch - 41ms/step
Epoch 212/1000
68/68 - 3s - loss: 0.0263 - acc: 0.9972 - val loss: 1.5079 - val acc: 0.5750 - 3s/epoch - 44ms/step
Epoch 213/1000
68/68 - 3s - loss: 0.0216 - acc: 0.9991 - val loss: 1.0614 - val acc: 0.6639 - 3s/epoch - 40ms/step
Epoch 214/1000
68/68 - 3s - loss: 0.0353 - acc: 0.9926 - val loss: 1.1776 - val acc: 0.6333 - 3s/epoch - 38ms/step
Epoch 215/1000
68/68 - 3s - loss: 0.0253 - acc: 0.9981 - val loss: 0.9099 - val acc: 0.6833 - 3s/epoch - 41ms/step
Epoch 216/1000
68/68 - 3s - loss: 0.0203 - acc: 0.9981 - val loss: 1.2433 - val acc: 0.6028 - 3s/epoch - 43ms/step
Epoch 217/1000
68/68 - 3s - loss: 0.0169 - acc: 0.9981 - val loss: 0.9808 - val acc: 0.6778 - 3s/epoch - 43ms/step
Epoch 218/1000
68/68 - 3s - loss: 0.0235 - acc: 0.9972 - val loss: 0.8965 - val acc: 0.7111 - 3s/epoch - 44ms/step
Epoch 219/1000
68/68 - 3s - loss: 0.0214 - acc: 0.9963 - val loss: 0.9837 - val acc: 0.6944 - 3s/epoch - 46ms/step
Epoch 220/1000
68/68 - 3s - loss: 0.0224 - acc: 0.9981 - val loss: 0.8818 - val acc: 0.7083 - 3s/epoch - 44ms/step
Epoch 221/1000
68/68 - 3s - loss: 0.0206 - acc: 0.9972 - val loss: 0.9703 - val acc: 0.6778 - 3s/epoch - 49ms/step
Epoch 222/1000
68/68 - 3s - loss: 0.0210 - acc: 0.9972 - val loss: 0.9348 - val acc: 0.7028 - 3s/epoch - 44ms/step
Epoch 223/1000
68/68 - 3s - loss: 0.0200 - acc: 0.9981 - val loss: 0.8246 - val acc: 0.7250 - 3s/epoch - 42ms/step
Epoch 224/1000
68/68 - 3s - loss: 0.0176 - acc: 0.9981 - val loss: 0.8800 - val acc: 0.6917 - 3s/epoch - 47ms/step
Epoch 225/1000
68/68 - 3s - loss: 0.0222 - acc: 0.9954 - val loss: 1.0310 - val acc: 0.6722 - 3s/epoch - 45ms/step
Epoch 226/1000
68/68 - 3s - loss: 0.0214 - acc: 0.9981 - val loss: 0.9538 - val acc: 0.6833 - 3s/epoch - 46ms/step
Epoch 227/1000
68/68 - 3s - loss: 0.0199 - acc: 0.9972 - val loss: 1.0382 - val acc: 0.6583 - 3s/epoch - 47ms/step
Epoch 228/1000
68/68 - 3s - loss: 0.0170 - acc: 0.9991 - val loss: 1.0592 - val acc: 0.6833 - 3s/epoch - 44ms/step
Epoch 229/1000
68/68 - 3s - loss: 0.0189 - acc: 0.9981 - val loss: 0.9833 - val acc: 0.6722 - 3s/epoch - 44ms/step
Epoch 230/1000
68/68 - 3s - loss: 0.0172 - acc: 0.9981 - val loss: 1.1163 - val acc: 0.6528 - 3s/epoch - 44ms/step
Epoch 231/1000
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68/68 - 3s - loss: 0.0200 - acc: 0.9981 - val loss: 0.9403 - val acc: 0.7083 - 3s/epoch - 45ms/step
Epoch 232/1000
68/68 - 3s - loss: 0.0277 - acc: 0.9935 - val loss: 0.9803 - val acc: 0.6889 - 3s/epoch - 49ms/step
Epoch 233/1000
68/68 - 3s - loss: 0.0161 - acc: 1.0000 - val loss: 0.8472 - val acc: 0.7250 - 3s/epoch - 47ms/step
Epoch 234/1000
68/68 - 3s - loss: 0.0111 - acc: 1.0000 - val loss: 0.8921 - val acc: 0.7333 - 3s/epoch - 48ms/step
Epoch 235/1000
68/68 - 3s - loss: 0.0136 - acc: 0.9991 - val loss: 0.8566 - val acc: 0.7167 - 3s/epoch - 51ms/step
Epoch 236/1000
68/68 - 3s - loss: 0.0166 - acc: 0.9991 - val loss: 1.0531 - val acc: 0.6611 - 3s/epoch - 50ms/step
Epoch 237/1000
68/68 - 3s - loss: 0.0281 - acc: 0.9963 - val loss: 0.9204 - val acc: 0.7111 - 3s/epoch - 47ms/step
Epoch 238/1000
68/68 - 3s - loss: 0.0174 - acc: 0.9991 - val loss: 1.0714 - val acc: 0.6444 - 3s/epoch - 48ms/step
Epoch 239/1000
68/68 - 3s - loss: 0.0186 - acc: 0.9972 - val loss: 0.8659 - val acc: 0.7250 - 3s/epoch - 49ms/step
Epoch 240/1000
68/68 - 4s - loss: 0.0179 - acc: 0.9972 - val loss: 0.8393 - val acc: 0.7250 - 4s/epoch - 53ms/step
Epoch 241/1000
68/68 - 3s - loss: 0.0163 - acc: 0.9963 - val loss: 1.0580 - val acc: 0.6500 - 3s/epoch - 50ms/step
Epoch 242/1000
68/68 - 3s - loss: 0.0122 - acc: 1.0000 - val loss: 0.9610 - val acc: 0.6722 - 3s/epoch - 50ms/step
Epoch 243/1000
68/68 - 3s - loss: 0.0157 - acc: 0.9991 - val loss: 0.9962 - val acc: 0.6861 - 3s/epoch - 51ms/step
Epoch 244/1000
68/68 - 3s - loss: 0.0163 - acc: 0.9991 - val_loss: 1.0656 - val_acc: 0.6528 - 3s/epoch - 47ms/step
Epoch 245/1000
68/68 - 3s - loss: 0.0143 - acc: 0.9991 - val loss: 0.9546 - val acc: 0.6833 - 3s/epoch - 41ms/step
Epoch 246/1000
68/68 - 3s - loss: 0.0181 - acc: 0.9972 - val loss: 0.9627 - val acc: 0.7111 - 3s/epoch - 44ms/step
Epoch 247/1000
68/68 - 3s - loss: 0.0143 - acc: 0.9991 - val loss: 0.9040 - val acc: 0.7278 - 3s/epoch - 44ms/step
Epoch 248/1000
68/68 - 4s - loss: 0.0472 - acc: 0.9898 - val loss: 0.9474 - val acc: 0.6889 - 4s/epoch - 60ms/step
Epoch 249/1000
68/68 - 3s - loss: 0.0214 - acc: 0.9991 - val loss: 0.9801 - val acc: 0.6750 - 3s/epoch - 49ms/step
Epoch 250/1000
68/68 - 3s - loss: 0.0268 - acc: 0.9935 - val loss: 0.8881 - val acc: 0.7278 - 3s/epoch - 48ms/step
Epoch 251/1000
68/68 - 3s - loss: 0.0263 - acc: 0.9963 - val loss: 1.0946 - val acc: 0.6583 - 3s/epoch - 46ms/step
Epoch 252/1000
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68/68 - 3s - loss: 0.0222 - acc: 0.9972 - val loss: 1.2164 - val acc: 0.6250 - 3s/epoch - 45ms/step
Epoch 253/1000
68/68 - 3s - loss: 0.0171 - acc: 0.9991 - val loss: 0.9900 - val acc: 0.6861 - 3s/epoch - 37ms/step
Epoch 254/1000
68/68 - 3s - loss: 0.0228 - acc: 0.9972 - val loss: 0.9103 - val acc: 0.7222 - 3s/epoch - 38ms/step
Epoch 255/1000
68/68 - 3s - loss: 0.0234 - acc: 0.9963 - val loss: 1.1917 - val acc: 0.6306 - 3s/epoch - 38ms/step
Epoch 256/1000
68/68 - 3s - loss: 0.0126 - acc: 1.0000 - val loss: 1.0064 - val acc: 0.6833 - 3s/epoch - 38ms/step
Epoch 257/1000
68/68 - 3s - loss: 0.0124 - acc: 1.0000 - val loss: 1.0210 - val acc: 0.6722 - 3s/epoch - 38ms/step
Epoch 258/1000
68/68 - 3s - loss: 0.0132 - acc: 0.9991 - val loss: 0.9775 - val acc: 0.6639 - 3s/epoch - 39ms/step
Epoch 259/1000
68/68 - 3s - loss: 0.0157 - acc: 0.9972 - val loss: 1.0055 - val acc: 0.6750 - 3s/epoch - 38ms/step
Epoch 260/1000
68/68 - 3s - loss: 0.0110 - acc: 1.0000 - val loss: 1.0131 - val acc: 0.6750 - 3s/epoch - 38ms/step
Epoch 261/1000
68/68 - 3s - loss: 0.0104 - acc: 0.9991 - val loss: 0.8641 - val acc: 0.7139 - 3s/epoch - 39ms/step
Epoch 262/1000
68/68 - 3s - loss: 0.0094 - acc: 1.0000 - val loss: 0.9997 - val acc: 0.6917 - 3s/epoch - 38ms/step
Epoch 263/1000
68/68 - 3s - loss: 0.0107 - acc: 0.9991 - val loss: 0.8714 - val acc: 0.7167 - 3s/epoch - 38ms/step
Epoch 264/1000
68/68 - 3s - loss: 0.0140 - acc: 0.9981 - val loss: 0.9851 - val acc: 0.6694 - 3s/epoch - 38ms/step
Epoch 265/1000
68/68 - 3s - loss: 0.0116 - acc: 0.9991 - val loss: 0.9130 - val acc: 0.7111 - 3s/epoch - 38ms/step
Epoch 266/1000
68/68 - 3s - loss: 0.0102 - acc: 1.0000 - val loss: 0.9753 - val acc: 0.6778 - 3s/epoch - 42ms/step
Epoch 267/1000
68/68 - 3s - loss: 0.0115 - acc: 0.9991 - val loss: 1.3604 - val acc: 0.6222 - 3s/epoch - 50ms/step
Epoch 268/1000
68/68 - 3s - loss: 0.0119 - acc: 0.9972 - val loss: 1.1972 - val acc: 0.6417 - 3s/epoch - 41ms/step
Epoch 269/1000
68/68 - 3s - loss: 0.0165 - acc: 0.9981 - val loss: 0.7161 - val acc: 0.7667 - 3s/epoch - 38ms/step
Epoch 270/1000
68/68 - 3s - loss: 0.0108 - acc: 1.0000 - val loss: 0.9709 - val acc: 0.7000 - 3s/epoch - 38ms/step
Epoch 271/1000
68/68 - 3s - loss: 0.0123 - acc: 0.9991 - val loss: 0.8047 - val acc: 0.7528 - 3s/epoch - 38ms/step
Epoch 272/1000
68/68 - 3s - loss: 0.0098 - acc: 0.9991 - val loss: 0.9646 - val acc: 0.7111 - 3s/epoch - 39ms/step
Epoch 273/1000
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68/68 - 3s - loss: 0.0074 - acc: 1.0000 - val loss: 1.0142 - val acc: 0.6833 - 3s/epoch - 38ms/step
Epoch 274/1000
68/68 - 3s - loss: 0.0108 - acc: 0.9981 - val loss: 1.0712 - val acc: 0.6806 - 3s/epoch - 38ms/step
Epoch 275/1000
68/68 - 3s - loss: 0.0090 - acc: 1.0000 - val loss: 0.9067 - val acc: 0.7250 - 3s/epoch - 38ms/step
Epoch 276/1000
68/68 - 3s - loss: 0.0179 - acc: 0.9981 - val loss: 1.2487 - val acc: 0.6306 - 3s/epoch - 38ms/step
Epoch 277/1000
68/68 - 3s - loss: 0.0237 - acc: 0.9954 - val loss: 0.9847 - val acc: 0.6972 - 3s/epoch - 38ms/step
Epoch 278/1000
68/68 - 3s - loss: 0.0138 - acc: 1.0000 - val loss: 0.8764 - val acc: 0.7306 - 3s/epoch - 39ms/step
Epoch 279/1000
68/68 - 3s - loss: 0.0205 - acc: 0.9963 - val loss: 0.8308 - val acc: 0.7333 - 3s/epoch - 38ms/step
Epoch 280/1000
68/68 - 3s - loss: 0.0139 - acc: 0.9991 - val loss: 1.0081 - val acc: 0.6889 - 3s/epoch - 39ms/step
Epoch 281/1000
68/68 - 3s - loss: 0.0102 - acc: 1.0000 - val loss: 0.9771 - val acc: 0.6944 - 3s/epoch - 38ms/step
Epoch 282/1000
68/68 - 3s - loss: 0.0118 - acc: 0.9981 - val loss: 0.9838 - val acc: 0.7000 - 3s/epoch - 38ms/step
Epoch 283/1000
68/68 - 3s - loss: 0.0114 - acc: 0.9991 - val loss: 0.8565 - val acc: 0.7361 - 3s/epoch - 38ms/step
Epoch 284/1000
68/68 - 3s - loss: 0.0111 - acc: 1.0000 - val loss: 0.9221 - val acc: 0.6944 - 3s/epoch - 38ms/step
Epoch 285/1000
68/68 - 3s - loss: 0.0088 - acc: 0.9991 - val loss: 0.8948 - val acc: 0.7278 - 3s/epoch - 47ms/step
Epoch 286/1000
68/68 - 3s - loss: 0.0117 - acc: 1.0000 - val loss: 0.9880 - val acc: 0.7028 - 3s/epoch - 48ms/step
Epoch 287/1000
68/68 - 4s - loss: 0.0090 - acc: 0.9991 - val loss: 0.9649 - val acc: 0.6861 - 4s/epoch - 53ms/step
Epoch 288/1000
68/68 - 4s - loss: 0.0099 - acc: 0.9981 - val loss: 0.9944 - val acc: 0.6944 - 4s/epoch - 54ms/step
Epoch 289/1000
68/68 - 3s - loss: 0.0324 - acc: 0.9926 - val loss: 0.8591 - val acc: 0.7250 - 3s/epoch - 48ms/step
Epoch 290/1000
68/68 - 3s - loss: 0.0253 - acc: 0.9972 - val loss: 0.8998 - val acc: 0.7056 - 3s/epoch - 43ms/step
Epoch 291/1000
68/68 - 3s - loss: 0.0226 - acc: 0.9963 - val loss: 0.8323 - val acc: 0.7500 - 3s/epoch - 45ms/step
Epoch 292/1000
68/68 - 4s - loss: 0.0170 - acc: 0.9981 - val_loss: 1.0088 - val_acc: 0.6944 - 4s/epoch - 54ms/step
Epoch 293/1000
68/68 - 3s - loss: 0.0110 - acc: 0.9991 - val loss: 0.9446 - val acc: 0.6750 - 3s/epoch - 44ms/step
Epoch 294/1000
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68/68 - 3s - loss: 0.0159 - acc: 0.9963 - val loss: 0.9473 - val acc: 0.7056 - 3s/epoch - 41ms/step
Epoch 295/1000
68/68 - 3s - loss: 0.0166 - acc: 0.9972 - val loss: 1.0989 - val acc: 0.6472 - 3s/epoch - 40ms/step
Epoch 296/1000
68/68 - 3s - loss: 0.0106 - acc: 0.9991 - val loss: 1.1269 - val acc: 0.6639 - 3s/epoch - 37ms/step
Epoch 297/1000
68/68 - 3s - loss: 0.0147 - acc: 0.9963 - val loss: 1.2518 - val acc: 0.6194 - 3s/epoch - 38ms/step
Epoch 298/1000
68/68 - 3s - loss: 0.0101 - acc: 1.0000 - val loss: 0.8915 - val acc: 0.7278 - 3s/epoch - 39ms/step
Epoch 299/1000
68/68 - 3s - loss: 0.0096 - acc: 0.9991 - val loss: 0.8314 - val acc: 0.7417 - 3s/epoch - 42ms/step
Epoch 300/1000
68/68 - 3s - loss: 0.0101 - acc: 0.9991 - val loss: 0.8328 - val acc: 0.7361 - 3s/epoch - 49ms/step
Epoch 301/1000
68/68 - 4s - loss: 0.0071 - acc: 0.9991 - val loss: 0.8674 - val acc: 0.7278 - 4s/epoch - 54ms/step
Epoch 302/1000
68/68 - 3s - loss: 0.0075 - acc: 1.0000 - val loss: 0.9414 - val acc: 0.7111 - 3s/epoch - 48ms/step
Epoch 303/1000
68/68 - 3s - loss: 0.0066 - acc: 1.0000 - val loss: 0.7438 - val acc: 0.7833 - 3s/epoch - 38ms/step
Epoch 304/1000
68/68 - 3s - loss: 0.0056 - acc: 1.0000 - val loss: 0.9346 - val acc: 0.7139 - 3s/epoch - 38ms/step
Epoch 305/1000
68/68 - 3s - loss: 0.0083 - acc: 0.9991 - val loss: 0.9677 - val acc: 0.7028 - 3s/epoch - 38ms/step
Epoch 306/1000
68/68 - 3s - loss: 0.0107 - acc: 0.9972 - val loss: 1.1261 - val acc: 0.6667 - 3s/epoch - 39ms/step
Epoch 307/1000
68/68 - 3s - loss: 0.0079 - acc: 0.9991 - val loss: 1.2377 - val acc: 0.6361 - 3s/epoch - 37ms/step
Epoch 308/1000
68/68 - 3s - loss: 0.0049 - acc: 1.0000 - val loss: 0.9565 - val acc: 0.7056 - 3s/epoch - 37ms/step
Epoch 309/1000
68/68 - 3s - loss: 0.0101 - acc: 0.9981 - val loss: 1.0162 - val acc: 0.6944 - 3s/epoch - 37ms/step
Epoch 310/1000
68/68 - 3s - loss: 0.0077 - acc: 1.0000 - val loss: 1.0139 - val acc: 0.6778 - 3s/epoch - 41ms/step
Epoch 311/1000
68/68 - 3s - loss: 0.0098 - acc: 0.9972 - val loss: 1.0417 - val acc: 0.6972 - 3s/epoch - 39ms/step
Epoch 312/1000
68/68 - 3s - loss: 0.0076 - acc: 0.9981 - val loss: 0.7214 - val acc: 0.7778 - 3s/epoch - 38ms/step
Epoch 313/1000
68/68 - 3s - loss: 0.0102 - acc: 0.9981 - val loss: 0.8958 - val acc: 0.7167 - 3s/epoch - 39ms/step
Epoch 314/1000
68/68 - 3s - loss: 0.0078 - acc: 1.0000 - val loss: 0.9284 - val acc: 0.7139 - 3s/epoch - 39ms/step
Epoch 315/1000
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68/68 - 3s - loss: 0.0111 - acc: 0.9972 - val loss: 1.0519 - val acc: 0.7028 - 3s/epoch - 38ms/step
Epoch 316/1000
68/68 - 3s - loss: 0.0221 - acc: 0.9944 - val loss: 0.9870 - val acc: 0.6861 - 3s/epoch - 48ms/step
Epoch 317/1000
68/68 - 3s - loss: 0.0110 - acc: 0.9991 - val loss: 0.9423 - val acc: 0.7139 - 3s/epoch - 39ms/step
Epoch 318/1000
68/68 - 3s - loss: 0.0089 - acc: 1.0000 - val loss: 0.9657 - val acc: 0.7056 - 3s/epoch - 38ms/step
Epoch 319/1000
68/68 - 3s - loss: 0.0072 - acc: 1.0000 - val loss: 0.9795 - val acc: 0.6944 - 3s/epoch - 37ms/step
Epoch 320/1000
68/68 - 3s - loss: 0.0062 - acc: 1.0000 - val loss: 0.7656 - val acc: 0.7583 - 3s/epoch - 40ms/step
Epoch 321/1000
68/68 - 3s - loss: 0.0108 - acc: 0.9991 - val loss: 1.0399 - val acc: 0.6694 - 3s/epoch - 38ms/step
Epoch 322/1000
68/68 - 2s - loss: 0.0098 - acc: 0.9963 - val loss: 1.0250 - val acc: 0.6972 - 2s/epoch - 36ms/step
Epoch 323/1000
68/68 - 3s - loss: 0.0204 - acc: 0.9944 - val loss: 1.2812 - val acc: 0.6389 - 3s/epoch - 38ms/step
Epoch 324/1000
68/68 - 3s - loss: 0.0217 - acc: 0.9963 - val loss: 1.1063 - val acc: 0.6750 - 3s/epoch - 49ms/step
Epoch 325/1000
68/68 - 3s - loss: 0.0157 - acc: 0.9981 - val loss: 1.1558 - val acc: 0.6611 - 3s/epoch - 38ms/step
Epoch 326/1000
68/68 - 3s - loss: 0.0159 - acc: 0.9991 - val loss: 0.9579 - val acc: 0.6917 - 3s/epoch - 38ms/step
Epoch 327/1000
68/68 - 3s - loss: 0.0095 - acc: 0.9991 - val loss: 0.8091 - val acc: 0.7472 - 3s/epoch - 38ms/step
Epoch 328/1000
68/68 - 3s - loss: 0.0121 - acc: 0.9972 - val loss: 0.9257 - val acc: 0.7278 - 3s/epoch - 39ms/step
Epoch 329/1000
68/68 - 3s - loss: 0.0112 - acc: 0.9991 - val loss: 1.0027 - val acc: 0.6861 - 3s/epoch - 38ms/step
Epoch 330/1000
68/68 - 3s - loss: 0.0107 - acc: 0.9981 - val loss: 0.8347 - val acc: 0.7472 - 3s/epoch - 50ms/step
Epoch 331/1000
68/68 - 4s - loss: 0.0129 - acc: 0.9963 - val loss: 0.9801 - val acc: 0.6944 - 4s/epoch - 59ms/step
Epoch 332/1000
68/68 - 3s - loss: 0.0095 - acc: 1.0000 - val loss: 0.9078 - val acc: 0.7250 - 3s/epoch - 49ms/step
Epoch 333/1000
68/68 - 3s - loss: 0.0093 - acc: 0.9981 - val loss: 0.8680 - val acc: 0.7500 - 3s/epoch - 45ms/step
Epoch 334/1000
68/68 - 3s - loss: 0.0084 - acc: 1.0000 - val loss: 1.0459 - val acc: 0.6861 - 3s/epoch - 38ms/step
Epoch 335/1000
68/68 - 3s - loss: 0.0098 - acc: 0.9991 - val loss: 0.8911 - val acc: 0.7306 - 3s/epoch - 38ms/step
Epoch 336/1000
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68/68 - 2s - loss: 0.0093 - acc: 1.0000 - val loss: 0.8401 - val acc: 0.7222 - 2s/epoch - 37ms/step
Epoch 337/1000
68/68 - 3s - loss: 0.0068 - acc: 1.0000 - val loss: 0.8368 - val acc: 0.7472 - 3s/epoch - 38ms/step
Epoch 338/1000
68/68 - 3s - loss: 0.0090 - acc: 0.9991 - val loss: 1.0676 - val acc: 0.6750 - 3s/epoch - 38ms/step
Epoch 339/1000
68/68 - 2s - loss: 0.0173 - acc: 0.9954 - val loss: 0.9493 - val acc: 0.7167 - 2s/epoch - 36ms/step
Epoch 340/1000
68/68 - 3s - loss: 0.0150 - acc: 0.9981 - val loss: 1.1315 - val acc: 0.6806 - 3s/epoch - 37ms/step
Epoch 341/1000
68/68 - 3s - loss: 0.0099 - acc: 0.9981 - val loss: 1.2918 - val acc: 0.6472 - 3s/epoch - 48ms/step
Epoch 342/1000
68/68 - 3s - loss: 0.0093 - acc: 0.9991 - val loss: 0.9438 - val acc: 0.7056 - 3s/epoch - 40ms/step
Epoch 343/1000
68/68 - 3s - loss: 0.0076 - acc: 0.9991 - val loss: 0.9432 - val acc: 0.7167 - 3s/epoch - 38ms/step
Epoch 344/1000
68/68 - 3s - loss: 0.0089 - acc: 0.9991 - val loss: 0.8737 - val acc: 0.7444 - 3s/epoch - 38ms/step
Epoch 345/1000
68/68 - 3s - loss: 0.0074 - acc: 1.0000 - val loss: 0.8067 - val acc: 0.7639 - 3s/epoch - 40ms/step
Epoch 346/1000
68/68 - 3s - loss: 0.0078 - acc: 0.9991 - val loss: 0.8198 - val acc: 0.7556 - 3s/epoch - 38ms/step
Epoch 347/1000
68/68 - 3s - loss: 0.0074 - acc: 1.0000 - val loss: 0.9480 - val acc: 0.7167 - 3s/epoch - 50ms/step
Epoch 348/1000
68/68 - 3s - loss: 0.0064 - acc: 1.0000 - val loss: 0.8946 - val acc: 0.7444 - 3s/epoch - 49ms/step
Epoch 349/1000
68/68 - 4s - loss: 0.0066 - acc: 0.9991 - val loss: 0.7846 - val acc: 0.7583 - 4s/epoch - 52ms/step
Epoch 350/1000
68/68 - 5s - loss: 0.0065 - acc: 1.0000 - val loss: 0.7478 - val acc: 0.7833 - 5s/epoch - 67ms/step
Epoch 351/1000
68/68 - 4s - loss: 0.0077 - acc: 0.9981 - val loss: 0.7338 - val acc: 0.7611 - 4s/epoch - 63ms/step
Epoch 352/1000
68/68 - 3s - loss: 0.0100 - acc: 0.9981 - val loss: 1.1289 - val acc: 0.6444 - 3s/epoch - 47ms/step
Epoch 353/1000
68/68 - 3s - loss: 0.0060 - acc: 1.0000 - val loss: 1.0365 - val acc: 0.6917 - 3s/epoch - 47ms/step
Epoch 354/1000
68/68 - 3s - loss: 0.0108 - acc: 0.9981 - val loss: 0.9620 - val acc: 0.7083 - 3s/epoch - 38ms/step
Epoch 355/1000
68/68 - 3s - loss: 0.0145 - acc: 0.9972 - val loss: 1.1517 - val acc: 0.6694 - 3s/epoch - 50ms/step
Epoch 356/1000
68/68 - 3s - loss: 0.0087 - acc: 0.9991 - val loss: 1.0518 - val acc: 0.6889 - 3s/epoch - 42ms/step
Epoch 357/1000
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68/68 - 3s - loss: 0.0059 - acc: 0.9991 - val loss: 0.8769 - val acc: 0.7278 - 3s/epoch - 47ms/step
Epoch 358/1000
68/68 - 3s - loss: 0.0061 - acc: 1.0000 - val loss: 0.8160 - val acc: 0.7444 - 3s/epoch - 46ms/step
Epoch 359/1000
68/68 - 3s - loss: 0.0067 - acc: 1.0000 - val loss: 0.7672 - val acc: 0.7833 - 3s/epoch - 39ms/step
Epoch 360/1000
68/68 - 3s - loss: 0.0081 - acc: 0.9991 - val loss: 0.7248 - val acc: 0.7667 - 3s/epoch - 43ms/step
Epoch 361/1000
68/68 - 3s - loss: 0.0120 - acc: 0.9981 - val loss: 0.9650 - val acc: 0.7028 - 3s/epoch - 42ms/step
Epoch 362/1000
68/68 - 3s - loss: 0.0116 - acc: 0.9981 - val loss: 0.7598 - val acc: 0.7583 - 3s/epoch - 39ms/step
Epoch 363/1000
68/68 - 3s - loss: 0.0132 - acc: 0.9981 - val loss: 0.7873 - val acc: 0.7472 - 3s/epoch - 46ms/step
Epoch 364/1000
68/68 - 3s - loss: 0.0179 - acc: 0.9944 - val loss: 0.9047 - val acc: 0.7306 - 3s/epoch - 42ms/step
Epoch 365/1000
68/68 - 3s - loss: 0.0242 - acc: 0.9926 - val loss: 1.1051 - val acc: 0.7139 - 3s/epoch - 41ms/step
Epoch 366/1000
68/68 - 3s - loss: 0.0150 - acc: 0.9972 - val loss: 0.8374 - val acc: 0.7389 - 3s/epoch - 40ms/step
Epoch 367/1000
68/68 - 3s - loss: 0.0135 - acc: 0.9972 - val loss: 1.0526 - val acc: 0.7056 - 3s/epoch - 39ms/step
Epoch 368/1000
68/68 - 3s - loss: 0.0169 - acc: 0.9963 - val loss: 0.8665 - val acc: 0.7306 - 3s/epoch - 40ms/step
Epoch 369/1000
68/68 - 3s - loss: 0.0078 - acc: 1.0000 - val loss: 0.8207 - val acc: 0.7444 - 3s/epoch - 39ms/step
Epoch 370/1000
68/68 - 3s - loss: 0.0073 - acc: 0.9972 - val loss: 0.8703 - val acc: 0.7278 - 3s/epoch - 41ms/step
Epoch 371/1000
68/68 - 3s - loss: 0.0062 - acc: 0.9991 - val loss: 0.8558 - val acc: 0.7417 - 3s/epoch - 43ms/step
Epoch 372/1000
68/68 - 3s - loss: 0.0078 - acc: 1.0000 - val loss: 0.9159 - val acc: 0.7250 - 3s/epoch - 48ms/step
Epoch 373/1000
68/68 - 3s - loss: 0.0065 - acc: 0.9991 - val loss: 0.7517 - val acc: 0.7611 - 3s/epoch - 44ms/step
Epoch 374/1000
68/68 - 3s - loss: 0.0083 - acc: 0.9991 - val loss: 1.0685 - val acc: 0.6917 - 3s/epoch - 38ms/step
Epoch 375/1000
68/68 - 3s - loss: 0.0107 - acc: 0.9991 - val loss: 0.7590 - val acc: 0.7583 - 3s/epoch - 40ms/step
Epoch 376/1000
68/68 - 3s - loss: 0.0065 - acc: 0.9991 - val loss: 0.9581 - val acc: 0.7083 - 3s/epoch - 45ms/step
Epoch 377/1000
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68/68 - 3s - loss: 0.0073 - acc: 1.0000 - val loss: 0.9815 - val acc: 0.7000 - 3s/epoch - 40ms/step
Epoch 378/1000
68/68 - 3s - loss: 0.0041 - acc: 1.0000 - val loss: 0.7970 - val acc: 0.7306 - 3s/epoch - 39ms/step
Epoch 379/1000
68/68 - 3s - loss: 0.0051 - acc: 1.0000 - val loss: 0.8040 - val acc: 0.7472 - 3s/epoch - 39ms/step
Epoch 380/1000
68/68 - 3s - loss: 0.0047 - acc: 1.0000 - val loss: 0.9511 - val acc: 0.7028 - 3s/epoch - 38ms/step
Epoch 381/1000
68/68 - 3s - loss: 0.0053 - acc: 1.0000 - val loss: 0.8784 - val acc: 0.7111 - 3s/epoch - 39ms/step
Epoch 382/1000
68/68 - 3s - loss: 0.0089 - acc: 0.9981 - val loss: 0.8094 - val acc: 0.7583 - 3s/epoch - 38ms/step
Epoch 383/1000
68/68 - 3s - loss: 0.0075 - acc: 1.0000 - val loss: 1.3166 - val acc: 0.6250 - 3s/epoch - 41ms/step
Epoch 384/1000
68/68 - 3s - loss: 0.0056 - acc: 1.0000 - val loss: 0.8731 - val acc: 0.7194 - 3s/epoch - 40ms/step
Epoch 385/1000
68/68 - 3s - loss: 0.0048 - acc: 1.0000 - val loss: 0.8579 - val acc: 0.7556 - 3s/epoch - 40ms/step
Epoch 386/1000
68/68 - 3s - loss: 0.0033 - acc: 1.0000 - val loss: 0.9395 - val acc: 0.7194 - 3s/epoch - 38ms/step
Epoch 387/1000
68/68 - 3s - loss: 0.0104 - acc: 0.9972 - val loss: 0.7651 - val acc: 0.7722 - 3s/epoch - 40ms/step
Epoch 388/1000
68/68 - 3s - loss: 0.0161 - acc: 0.9954 - val loss: 0.9718 - val acc: 0.7194 - 3s/epoch - 38ms/step
Epoch 389/1000
68/68 - 3s - loss: 0.0111 - acc: 0.9991 - val loss: 1.0360 - val acc: 0.6667 - 3s/epoch - 41ms/step
Epoch 390/1000
68/68 - 3s - loss: 0.0066 - acc: 1.0000 - val loss: 0.9260 - val acc: 0.7194 - 3s/epoch - 39ms/step
Epoch 391/1000
68/68 - 3s - loss: 0.0072 - acc: 0.9991 - val loss: 0.8683 - val acc: 0.7389 - 3s/epoch - 39ms/step
Epoch 392/1000
68/68 - 3s - loss: 0.0079 - acc: 0.9991 - val loss: 0.9299 - val acc: 0.7056 - 3s/epoch - 37ms/step
Epoch 393/1000
68/68 - 3s - loss: 0.0049 - acc: 1.0000 - val loss: 1.0417 - val acc: 0.6861 - 3s/epoch - 37ms/step
Epoch 394/1000
68/68 - 3s - loss: 0.0059 - acc: 0.9991 - val loss: 0.8045 - val acc: 0.7389 - 3s/epoch - 41ms/step
Epoch 395/1000
68/68 - 3s - loss: 0.0058 - acc: 1.0000 - val loss: 0.8202 - val acc: 0.7444 - 3s/epoch - 46ms/step
Epoch 396/1000
68/68 - 3s - loss: 0.0125 - acc: 0.9963 - val loss: 1.2782 - val acc: 0.6500 - 3s/epoch - 39ms/step
Epoch 397/1000
68/68 - 3s - loss: 0.0174 - acc: 0.9972 - val loss: 0.7506 - val acc: 0.7611 - 3s/epoch - 39ms/step
Epoch 398/1000
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68/68 - 3s - loss: 0.0086 - acc: 1.0000 - val loss: 0.9270 - val acc: 0.7194 - 3s/epoch - 39ms/step
Epoch 399/1000
68/68 - 3s - loss: 0.0126 - acc: 0.9963 - val loss: 0.8166 - val acc: 0.7694 - 3s/epoch - 40ms/step
Epoch 400/1000
68/68 - 3s - loss: 0.0122 - acc: 0.9972 - val loss: 1.1689 - val acc: 0.6917 - 3s/epoch - 37ms/step
Epoch 401/1000
68/68 - 3s - loss: 0.0094 - acc: 0.9981 - val loss: 0.9385 - val acc: 0.7222 - 3s/epoch - 38ms/step
Epoch 402/1000
68/68 - 3s - loss: 0.0061 - acc: 1.0000 - val loss: 1.1061 - val acc: 0.6667 - 3s/epoch - 40ms/step
Epoch 403/1000
68/68 - 3s - loss: 0.0056 - acc: 1.0000 - val loss: 0.9615 - val acc: 0.7139 - 3s/epoch - 46ms/step
Epoch 404/1000
68/68 - 3s - loss: 0.0062 - acc: 0.9991 - val loss: 1.1127 - val acc: 0.6806 - 3s/epoch - 37ms/step
Epoch 405/1000
68/68 - 3s - loss: 0.0056 - acc: 0.9991 - val loss: 1.0153 - val acc: 0.7028 - 3s/epoch - 41ms/step
Epoch 406/1000
68/68 - 3s - loss: 0.0065 - acc: 0.9991 - val loss: 0.8642 - val acc: 0.7222 - 3s/epoch - 39ms/step
Epoch 407/1000
68/68 - 3s - loss: 0.0045 - acc: 1.0000 - val loss: 0.9757 - val acc: 0.6861 - 3s/epoch - 38ms/step
Epoch 408/1000
68/68 - 3s - loss: 0.0037 - acc: 1.0000 - val loss: 1.0122 - val acc: 0.7028 - 3s/epoch - 37ms/step
Epoch 409/1000
68/68 - 2s - loss: 0.0047 - acc: 0.9991 - val loss: 0.8926 - val acc: 0.7361 - 2s/epoch - 36ms/step
Epoch 410/1000
68/68 - 2s - loss: 0.0037 - acc: 1.0000 - val loss: 0.8210 - val acc: 0.7500 - 2s/epoch - 36ms/step
Epoch 411/1000
68/68 - 2s - loss: 0.0037 - acc: 1.0000 - val loss: 0.9016 - val acc: 0.7306 - 2s/epoch - 36ms/step
Epoch 412/1000
68/68 - 3s - loss: 0.0034 - acc: 1.0000 - val loss: 0.9024 - val acc: 0.7333 - 3s/epoch - 37ms/step
Epoch 413/1000
68/68 - 2s - loss: 0.0039 - acc: 1.0000 - val loss: 0.9098 - val acc: 0.7389 - 2s/epoch - 36ms/step
Epoch 414/1000
68/68 - 2s - loss: 0.0073 - acc: 0.9981 - val loss: 0.8758 - val acc: 0.7611 - 2s/epoch - 36ms/step
Epoch 415/1000
68/68 - 2s - loss: 0.0122 - acc: 0.9963 - val loss: 1.0973 - val acc: 0.6861 - 2s/epoch - 36ms/step
Epoch 416/1000
68/68 - 3s - loss: 0.0054 - acc: 1.0000 - val loss: 1.0208 - val acc: 0.7028 - 3s/epoch - 38ms/step
Epoch 417/1000
68/68 - 3s - loss: 0.0055 - acc: 1.0000 - val loss: 0.9623 - val acc: 0.7083 - 3s/epoch - 40ms/step
Epoch 418/1000
68/68 - 3s - loss: 0.0045 - acc: 1.0000 - val loss: 1.0193 - val acc: 0.6889 - 3s/epoch - 39ms/step
Epoch 419/1000
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68/68 - 3s - loss: 0.0032 - acc: 1.0000 - val loss: 0.9962 - val acc: 0.7139 - 3s/epoch - 46ms/step
Epoch 420/1000
68/68 - 3s - loss: 0.0046 - acc: 0.9991 - val loss: 0.9343 - val acc: 0.7139 - 3s/epoch - 42ms/step
Epoch 421/1000
68/68 - 3s - loss: 0.0082 - acc: 0.9991 - val loss: 1.6656 - val acc: 0.5972 - 3s/epoch - 38ms/step
Epoch 422/1000
68/68 - 3s - loss: 0.0096 - acc: 0.9981 - val loss: 0.9582 - val acc: 0.7000 - 3s/epoch - 38ms/step
Epoch 423/1000
68/68 - 3s - loss: 0.0051 - acc: 1.0000 - val loss: 0.7549 - val acc: 0.7750 - 3s/epoch - 38ms/step
Epoch 424/1000
68/68 - 3s - loss: 0.0094 - acc: 0.9972 - val loss: 1.4763 - val acc: 0.6167 - 3s/epoch - 42ms/step
Epoch 425/1000
68/68 - 3s - loss: 0.0146 - acc: 0.9963 - val loss: 1.4955 - val acc: 0.6278 - 3s/epoch - 46ms/step
Epoch 426/1000
68/68 - 3s - loss: 0.0296 - acc: 0.9926 - val loss: 1.5076 - val acc: 0.6333 - 3s/epoch - 39ms/step
Epoch 427/1000
68/68 - 3s - loss: 0.0218 - acc: 0.9954 - val loss: 1.0343 - val acc: 0.7083 - 3s/epoch - 39ms/step
Epoch 428/1000
68/68 - 3s - loss: 0.0125 - acc: 0.9991 - val loss: 1.0525 - val acc: 0.7278 - 3s/epoch - 37ms/step
Epoch 429/1000
68/68 - 3s - loss: 0.0174 - acc: 0.9954 - val loss: 1.2427 - val acc: 0.6833 - 3s/epoch - 38ms/step
Epoch 430/1000
68/68 - 3s - loss: 0.0165 - acc: 0.9981 - val loss: 0.9379 - val acc: 0.7278 - 3s/epoch - 38ms/step
Epoch 431/1000
68/68 - 3s - loss: 0.0094 - acc: 0.9981 - val loss: 0.9042 - val acc: 0.7472 - 3s/epoch - 38ms/step
Epoch 432/1000
68/68 - 4s - loss: 0.0085 - acc: 0.9972 - val loss: 1.1364 - val acc: 0.6861 - 4s/epoch - 55ms/step
Epoch 433/1000
68/68 - 3s - loss: 0.0075 - acc: 0.9991 - val loss: 0.8095 - val acc: 0.7500 - 3s/epoch - 38ms/step
Epoch 434/1000
68/68 - 3s - loss: 0.0074 - acc: 0.9981 - val loss: 0.9533 - val acc: 0.7111 - 3s/epoch - 42ms/step
Epoch 435/1000
68/68 - 2s - loss: 0.0055 - acc: 1.0000 - val loss: 0.8636 - val acc: 0.7361 - 2s/epoch - 37ms/step
Epoch 436/1000
68/68 - 2s - loss: 0.0067 - acc: 0.9991 - val loss: 0.8028 - val acc: 0.7667 - 2s/epoch - 36ms/step
Epoch 437/1000
68/68 - 3s - loss: 0.0065 - acc: 1.0000 - val loss: 0.7824 - val acc: 0.7583 - 3s/epoch - 43ms/step
Epoch 438/1000
68/68 - 2s - loss: 0.0049 - acc: 1.0000 - val loss: 0.7736 - val acc: 0.7750 - 2s/epoch - 37ms/step
Epoch 439/1000
68/68 - 3s - loss: 0.0080 - acc: 0.9981 - val loss: 0.8025 - val acc: 0.7472 - 3s/epoch - 37ms/step
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Epoch 440/1000
68/68 - 3s - loss: 0.0048 - acc: 0.9991 - val loss: 0.8441 - val acc: 0.7306 - 3s/epoch - 38ms/step
Epoch 441/1000
68/68 - 3s - loss: 0.0086 - acc: 0.9991 - val loss: 0.7607 - val acc: 0.7750 - 3s/epoch - 40ms/step
Epoch 442/1000
68/68 - 3s - loss: 0.0049 - acc: 0.9991 - val loss: 0.6927 - val acc: 0.7972 - 3s/epoch - 38ms/step
Epoch 443/1000
68/68 - 2s - loss: 0.0087 - acc: 0.9991 - val loss: 0.9004 - val acc: 0.7250 - 2s/epoch - 36ms/step
Epoch 444/1000
68/68 - 2s - loss: 0.0056 - acc: 1.0000 - val loss: 1.0280 - val acc: 0.7000 - 2s/epoch - 36ms/step
Epoch 445/1000
68/68 - 3s - loss: 0.0042 - acc: 0.9991 - val loss: 0.9368 - val acc: 0.7306 - 3s/epoch - 41ms/step
Epoch 446/1000
68/68 - 3s - loss: 0.0034 - acc: 1.0000 - val loss: 0.9875 - val acc: 0.7139 - 3s/epoch - 41ms/step
Epoch 447/1000
68/68 - 3s - loss: 0.0060 - acc: 1.0000 - val loss: 0.8216 - val acc: 0.7639 - 3s/epoch - 39ms/step
Epoch 448/1000
68/68 - 3s - loss: 0.0062 - acc: 1.0000 - val loss: 0.8554 - val acc: 0.7500 - 3s/epoch - 45ms/step
Epoch 449/1000
68/68 - 3s - loss: 0.0040 - acc: 0.9991 - val loss: 0.8307 - val acc: 0.7556 - 3s/epoch - 41ms/step
Epoch 450/1000
68/68 - 3s - loss: 0.0069 - acc: 0.9981 - val loss: 0.8832 - val acc: 0.7444 - 3s/epoch - 39ms/step
Epoch 451/1000
68/68 - 3s - loss: 0.0038 - acc: 1.0000 - val loss: 0.9143 - val acc: 0.7472 - 3s/epoch - 38ms/step
Epoch 452/1000
68/68 - 3s - loss: 0.0095 - acc: 0.9972 - val loss: 0.7897 - val acc: 0.7750 - 3s/epoch - 40ms/step
Epoch 453/1000
68/68 - 3s - loss: 0.0081 - acc: 0.9972 - val loss: 1.0012 - val acc: 0.7250 - 3s/epoch - 44ms/step
Epoch 454/1000
68/68 - 3s - loss: 0.0106 - acc: 0.9972 - val loss: 1.0945 - val acc: 0.7139 - 3s/epoch - 39ms/step
Epoch 455/1000
68/68 - 3s - loss: 0.0094 - acc: 0.9991 - val loss: 0.9033 - val acc: 0.7556 - 3s/epoch - 39ms/step
Epoch 456/1000
68/68 - 3s - loss: 0.0044 - acc: 1.0000 - val loss: 0.8693 - val acc: 0.7556 - 3s/epoch - 37ms/step
Epoch 457/1000
68/68 - 3s - loss: 0.0034 - acc: 1.0000 - val loss: 0.8174 - val acc: 0.7639 - 3s/epoch - 37ms/step
Epoch 458/1000
68/68 - 2s - loss: 0.0044 - acc: 0.9991 - val loss: 1.1663 - val acc: 0.6750 - 2s/epoch - 36ms/step
Epoch 459/1000
68/68 - 3s - loss: 0.0069 - acc: 0.9981 - val loss: 0.8031 - val acc: 0.7417 - 3s/epoch - 37ms/step
Epoch 460/1000
68/68 - 2s - loss: 0.0052 - acc: 0.9991 - val loss: 0.9133 - val acc: 0.7194 - 2s/epoch - 37ms/step
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Epoch 461/1000
68/68 - 2s - loss: 0.0070 - acc: 0.9991 - val loss: 0.9214 - val acc: 0.7278 - 2s/epoch - 37ms/step
Epoch 462/1000
68/68 - 2s - loss: 0.0056 - acc: 0.9991 - val loss: 0.8357 - val acc: 0.7583 - 2s/epoch - 37ms/step
Epoch 463/1000
68/68 - 3s - loss: 0.0115 - acc: 0.9981 - val loss: 1.1258 - val acc: 0.7000 - 3s/epoch - 37ms/step
Epoch 464/1000
68/68 - 2s - loss: 0.0061 - acc: 1.0000 - val loss: 1.1106 - val acc: 0.6917 - 2s/epoch - 37ms/step
Epoch 465/1000
68/68 - 3s - loss: 0.0041 - acc: 1.0000 - val loss: 0.9647 - val acc: 0.7333 - 3s/epoch - 37ms/step
Epoch 466/1000
68/68 - 2s - loss: 0.0036 - acc: 1.0000 - val loss: 0.7235 - val acc: 0.8028 - 2s/epoch - 37ms/step
Epoch 467/1000
68/68 - 2s - loss: 0.0030 - acc: 1.0000 - val loss: 0.9498 - val acc: 0.7278 - 2s/epoch - 36ms/step
Epoch 468/1000
68/68 - 2s - loss: 0.0032 - acc: 1.0000 - val loss: 0.8103 - val acc: 0.7778 - 2s/epoch - 36ms/step
Epoch 469/1000
68/68 - 3s - loss: 0.0033 - acc: 1.0000 - val loss: 0.8187 - val acc: 0.7694 - 3s/epoch - 43ms/step
Epoch 470/1000
68/68 - 3s - loss: 0.0016 - acc: 1.0000 - val loss: 0.8115 - val acc: 0.7833 - 3s/epoch - 39ms/step
Epoch 471/1000
68/68 - 3s - loss: 0.0030 - acc: 1.0000 - val loss: 0.8803 - val acc: 0.7583 - 3s/epoch - 41ms/step
Epoch 472/1000
68/68 - 3s - loss: 0.0043 - acc: 0.9991 - val loss: 0.7871 - val acc: 0.7639 - 3s/epoch - 38ms/step
Epoch 473/1000
68/68 - 3s - loss: 0.0050 - acc: 0.9991 - val loss: 0.8325 - val acc: 0.7611 - 3s/epoch - 37ms/step
Epoch 474/1000
68/68 - 3s - loss: 0.0069 - acc: 0.9981 - val loss: 1.1887 - val acc: 0.6750 - 3s/epoch - 37ms/step
Epoch 475/1000
68/68 - 3s - loss: 0.0052 - acc: 1.0000 - val loss: 1.2099 - val acc: 0.6528 - 3s/epoch - 37ms/step
Epoch 476/1000
68/68 - 3s - loss: 0.0145 - acc: 0.9972 - val loss: 1.1462 - val acc: 0.6861 - 3s/epoch - 38ms/step
Epoch 477/1000
68/68 - 3s - loss: 0.0199 - acc: 0.9972 - val loss: 0.9964 - val acc: 0.7111 - 3s/epoch - 37ms/step
Epoch 478/1000
68/68 - 3s - loss: 0.0103 - acc: 0.9991 - val_loss: 0.7966 - val_acc: 0.7444 - 3s/epoch - 46ms/step
Epoch 479/1000
68/68 - 3s - loss: 0.0112 - acc: 0.9963 - val loss: 0.7098 - val acc: 0.8000 - 3s/epoch - 37ms/step
Epoch 480/1000
68/68 - 3s - loss: 0.0056 - acc: 0.9991 - val loss: 0.8387 - val acc: 0.7417 - 3s/epoch - 44ms/step
Epoch 481/1000
68/68 - 3s - loss: 0.0036 - acc: 1.0000 - val loss: 0.9144 - val acc: 0.7222 - 3s/epoch - 47ms/step
```

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Epoch 482/1000
68/68 - 3s - loss: 0.0077 - acc: 0.9981 - val loss: 0.7246 - val acc: 0.7694 - 3s/epoch - 38ms/step
Epoch 483/1000
68/68 - 3s - loss: 0.0036 - acc: 1.0000 - val loss: 0.8078 - val acc: 0.7611 - 3s/epoch - 38ms/step
Epoch 484/1000
68/68 - 3s - loss: 0.0052 - acc: 0.9991 - val loss: 0.8186 - val acc: 0.7556 - 3s/epoch - 37ms/step
Epoch 485/1000
68/68 - 2s - loss: 0.0057 - acc: 0.9981 - val loss: 0.9807 - val acc: 0.6917 - 2s/epoch - 36ms/step
Epoch 486/1000
68/68 - 2s - loss: 0.0064 - acc: 0.9991 - val loss: 1.0349 - val acc: 0.7167 - 2s/epoch - 36ms/step
Epoch 487/1000
68/68 - 3s - loss: 0.0155 - acc: 0.9954 - val loss: 0.8941 - val acc: 0.7528 - 3s/epoch - 40ms/step
Epoch 488/1000
68/68 - 3s - loss: 0.0076 - acc: 0.9981 - val loss: 1.0670 - val acc: 0.6944 - 3s/epoch - 49ms/step
Epoch 489/1000
68/68 - 3s - loss: 0.0055 - acc: 1.0000 - val loss: 0.9236 - val acc: 0.7333 - 3s/epoch - 42ms/step
Epoch 490/1000
68/68 - 3s - loss: 0.0052 - acc: 0.9991 - val loss: 0.9661 - val acc: 0.7111 - 3s/epoch - 37ms/step
Epoch 491/1000
68/68 - 3s - loss: 0.0048 - acc: 1.0000 - val loss: 0.8453 - val acc: 0.7500 - 3s/epoch - 43ms/step
Epoch 492/1000
68/68 - 3s - loss: 0.0145 - acc: 0.9954 - val loss: 0.9533 - val acc: 0.6889 - 3s/epoch - 39ms/step
Epoch 493/1000
68/68 - 3s - loss: 0.0132 - acc: 0.9981 - val loss: 0.8004 - val acc: 0.7778 - 3s/epoch - 42ms/step
Epoch 494/1000
68/68 - 3s - loss: 0.0105 - acc: 0.9972 - val loss: 0.7469 - val acc: 0.7861 - 3s/epoch - 39ms/step
Epoch 495/1000
68/68 - 2s - loss: 0.0113 - acc: 0.9981 - val loss: 1.3168 - val acc: 0.6583 - 2s/epoch - 36ms/step
Epoch 496/1000
68/68 - 2s - loss: 0.0103 - acc: 0.9991 - val loss: 1.1997 - val acc: 0.6722 - 2s/epoch - 36ms/step
Epoch 497/1000
68/68 - 3s - loss: 0.0064 - acc: 0.9991 - val loss: 0.9863 - val acc: 0.7361 - 3s/epoch - 38ms/step
Epoch 498/1000
68/68 - 3s - loss: 0.0068 - acc: 0.9981 - val loss: 0.9406 - val acc: 0.7139 - 3s/epoch - 37ms/step
Epoch 499/1000
68/68 - 3s - loss: 0.0064 - acc: 0.9991 - val_loss: 1.1685 - val_acc: 0.6833 - 3s/epoch - 37ms/step
Epoch 500/1000
68/68 - 3s - loss: 0.0060 - acc: 0.9991 - val loss: 0.8170 - val acc: 0.7500 - 3s/epoch - 38ms/step
Epoch 501/1000
68/68 - 2s - loss: 0.0055 - acc: 0.9991 - val loss: 1.0637 - val acc: 0.6972 - 2s/epoch - 37ms/step
Epoch 502/1000
68/68 - 2s - loss: 0.0090 - acc: 0.9991 - val loss: 0.7609 - val acc: 0.7667 - 2s/epoch - 36ms/step
```

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Epoch 503/1000
68/68 - 3s - loss: 0.0057 - acc: 1.0000 - val loss: 1.0207 - val acc: 0.7194 - 3s/epoch - 39ms/step
Epoch 504/1000
68/68 - 3s - loss: 0.0038 - acc: 1.0000 - val loss: 0.9753 - val acc: 0.7056 - 3s/epoch - 39ms/step
Epoch 505/1000
68/68 - 3s - loss: 0.0047 - acc: 1.0000 - val loss: 1.0070 - val acc: 0.7222 - 3s/epoch - 46ms/step
Epoch 506/1000
68/68 - 3s - loss: 0.0038 - acc: 1.0000 - val loss: 0.9539 - val acc: 0.7333 - 3s/epoch - 38ms/step
Epoch 507/1000
68/68 - 3s - loss: 0.0065 - acc: 0.9991 - val loss: 0.9752 - val acc: 0.7333 - 3s/epoch - 39ms/step
Epoch 508/1000
68/68 - 2s - loss: 0.0036 - acc: 1.0000 - val loss: 0.9136 - val acc: 0.7417 - 2s/epoch - 37ms/step
Epoch 509/1000
68/68 - 3s - loss: 0.0032 - acc: 1.0000 - val loss: 0.8781 - val acc: 0.7556 - 3s/epoch - 37ms/step
Epoch 510/1000
68/68 - 3s - loss: 0.0021 - acc: 1.0000 - val loss: 0.9464 - val acc: 0.7528 - 3s/epoch - 46ms/step
Epoch 511/1000
68/68 - 2s - loss: 0.0025 - acc: 1.0000 - val loss: 0.9791 - val acc: 0.7472 - 2s/epoch - 37ms/step
Epoch 512/1000
68/68 - 3s - loss: 0.0039 - acc: 1.0000 - val loss: 0.9088 - val acc: 0.7583 - 3s/epoch - 39ms/step
Epoch 513/1000
68/68 - 3s - loss: 0.0074 - acc: 0.9981 - val loss: 0.9228 - val acc: 0.7194 - 3s/epoch - 39ms/step
Epoch 514/1000
68/68 - 3s - loss: 0.0077 - acc: 0.9991 - val loss: 1.1007 - val acc: 0.7000 - 3s/epoch - 39ms/step
Epoch 515/1000
68/68 - 3s - loss: 0.0068 - acc: 0.9991 - val loss: 0.8136 - val acc: 0.7778 - 3s/epoch - 39ms/step
Epoch 516/1000
68/68 - 3s - loss: 0.0032 - acc: 1.0000 - val loss: 0.8888 - val acc: 0.7417 - 3s/epoch - 45ms/step
Epoch 517/1000
68/68 - 3s - loss: 0.0041 - acc: 0.9991 - val loss: 0.8549 - val acc: 0.7583 - 3s/epoch - 46ms/step
Epoch 518/1000
68/68 - 3s - loss: 0.0030 - acc: 1.0000 - val loss: 0.9421 - val acc: 0.7306 - 3s/epoch - 37ms/step
Epoch 519/1000
68/68 - 3s - loss: 0.0029 - acc: 1.0000 - val loss: 0.7822 - val acc: 0.7667 - 3s/epoch - 43ms/step
Epoch 520/1000
68/68 - 3s - loss: 0.0019 - acc: 1.0000 - val loss: 0.8408 - val acc: 0.7556 - 3s/epoch - 39ms/step
Epoch 521/1000
68/68 - 3s - loss: 0.0029 - acc: 1.0000 - val loss: 0.8786 - val acc: 0.7306 - 3s/epoch - 39ms/step
Epoch 522/1000
68/68 - 2s - loss: 0.0028 - acc: 1.0000 - val loss: 0.7824 - val acc: 0.7694 - 2s/epoch - 36ms/step
Epoch 523/1000
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68/68 - 2s - loss: 0.0023 - acc: 1.0000 - val loss: 0.9570 - val acc: 0.7333 - 2s/epoch - 37ms/step
Epoch 524/1000
68/68 - 2s - loss: 0.0080 - acc: 0.9981 - val loss: 1.0151 - val acc: 0.7167 - 2s/epoch - 36ms/step
Epoch 525/1000
68/68 - 2s - loss: 0.0052 - acc: 0.9991 - val loss: 0.7827 - val acc: 0.7694 - 2s/epoch - 36ms/step
Epoch 526/1000
68/68 - 2s - loss: 0.0049 - acc: 0.9981 - val loss: 0.8742 - val acc: 0.7417 - 2s/epoch - 36ms/step
Epoch 527/1000
68/68 - 2s - loss: 0.0094 - acc: 0.9981 - val loss: 1.1513 - val acc: 0.6833 - 2s/epoch - 36ms/step
Epoch 528/1000
68/68 - 2s - loss: 0.0047 - acc: 1.0000 - val loss: 1.0104 - val acc: 0.7417 - 2s/epoch - 36ms/step
Epoch 529/1000
68/68 - 3s - loss: 0.0048 - acc: 0.9981 - val loss: 0.9138 - val acc: 0.7556 - 3s/epoch - 39ms/step
Epoch 530/1000
68/68 - 3s - loss: 0.0058 - acc: 0.9981 - val loss: 1.1647 - val acc: 0.7111 - 3s/epoch - 40ms/step
Epoch 531/1000
68/68 - 2s - loss: 0.0040 - acc: 1.0000 - val loss: 0.9259 - val acc: 0.7556 - 2s/epoch - 36ms/step
Epoch 532/1000
68/68 - 2s - loss: 0.0033 - acc: 1.0000 - val loss: 0.7789 - val acc: 0.7778 - 2s/epoch - 36ms/step
Epoch 533/1000
68/68 - 2s - loss: 0.0033 - acc: 1.0000 - val loss: 0.8700 - val acc: 0.7583 - 2s/epoch - 36ms/step
Epoch 534/1000
68/68 - 2s - loss: 0.0048 - acc: 0.9991 - val loss: 0.9229 - val acc: 0.7444 - 2s/epoch - 36ms/step
Epoch 535/1000
68/68 - 3s - loss: 0.0065 - acc: 0.9981 - val loss: 1.2158 - val acc: 0.6750 - 3s/epoch - 40ms/step
Epoch 536/1000
68/68 - 3s - loss: 0.0087 - acc: 0.9981 - val loss: 0.9601 - val acc: 0.7278 - 3s/epoch - 37ms/step
Epoch 537/1000
68/68 - 2s - loss: 0.0092 - acc: 0.9981 - val loss: 1.6911 - val acc: 0.6083 - 2s/epoch - 36ms/step
Epoch 538/1000
68/68 - 2s - loss: 0.0081 - acc: 0.9981 - val loss: 0.9562 - val acc: 0.7361 - 2s/epoch - 36ms/step
Epoch 539/1000
68/68 - 2s - loss: 0.0046 - acc: 0.9991 - val loss: 0.6953 - val acc: 0.7722 - 2s/epoch - 36ms/step
Epoch 540/1000
68/68 - 3s - loss: 0.0037 - acc: 1.0000 - val loss: 0.7663 - val acc: 0.7611 - 3s/epoch - 37ms/step
Epoch 541/1000
68/68 - 3s - loss: 0.0031 - acc: 1.0000 - val loss: 0.8750 - val acc: 0.7250 - 3s/epoch - 38ms/step
Epoch 542/1000
68/68 - 3s - loss: 0.0053 - acc: 0.9981 - val loss: 1.1178 - val acc: 0.7139 - 3s/epoch - 39ms/step
Epoch 543/1000
68/68 - 3s - loss: 0.0175 - acc: 0.9944 - val loss: 1.1696 - val acc: 0.7028 - 3s/epoch - 37ms/step
Epoch 544/1000
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68/68 - 3s - loss: 0.0138 - acc: 0.9972 - val loss: 1.1985 - val acc: 0.6722 - 3s/epoch - 40ms/step
Epoch 545/1000
68/68 - 3s - loss: 0.0096 - acc: 0.9972 - val loss: 1.0664 - val acc: 0.7111 - 3s/epoch - 41ms/step
Epoch 546/1000
68/68 - 3s - loss: 0.0068 - acc: 1.0000 - val loss: 0.9145 - val acc: 0.7556 - 3s/epoch - 39ms/step
Epoch 547/1000
68/68 - 3s - loss: 0.0072 - acc: 0.9991 - val loss: 1.0184 - val acc: 0.7056 - 3s/epoch - 38ms/step
Epoch 548/1000
68/68 - 3s - loss: 0.0080 - acc: 0.9981 - val loss: 1.0390 - val acc: 0.7194 - 3s/epoch - 37ms/step
Epoch 549/1000
68/68 - 3s - loss: 0.0040 - acc: 1.0000 - val loss: 1.0221 - val acc: 0.7167 - 3s/epoch - 38ms/step
Epoch 550/1000
68/68 - 3s - loss: 0.0047 - acc: 1.0000 - val loss: 1.1600 - val acc: 0.7111 - 3s/epoch - 37ms/step
Epoch 551/1000
68/68 - 3s - loss: 0.0043 - acc: 1.0000 - val loss: 1.0037 - val acc: 0.7333 - 3s/epoch - 37ms/step
Epoch 552/1000
68/68 - 3s - loss: 0.0018 - acc: 1.0000 - val loss: 0.9440 - val acc: 0.7417 - 3s/epoch - 37ms/step
Epoch 553/1000
68/68 - 2s - loss: 0.0037 - acc: 0.9991 - val loss: 0.8425 - val acc: 0.7778 - 2s/epoch - 36ms/step
Epoch 554/1000
68/68 - 3s - loss: 0.0026 - acc: 1.0000 - val loss: 0.8720 - val acc: 0.7583 - 3s/epoch - 39ms/step
Epoch 555/1000
68/68 - 3s - loss: 0.0017 - acc: 1.0000 - val loss: 0.8811 - val acc: 0.7694 - 3s/epoch - 37ms/step
Epoch 556/1000
68/68 - 2s - loss: 0.0013 - acc: 1.0000 - val loss: 0.9093 - val acc: 0.7611 - 2s/epoch - 36ms/step
Epoch 557/1000
68/68 - 3s - loss: 0.0029 - acc: 1.0000 - val loss: 0.8186 - val acc: 0.7694 - 3s/epoch - 39ms/step
Epoch 558/1000
68/68 - 3s - loss: 0.0020 - acc: 1.0000 - val loss: 0.8786 - val acc: 0.7583 - 3s/epoch - 39ms/step
Epoch 559/1000
68/68 - 3s - loss: 0.0022 - acc: 1.0000 - val loss: 0.9677 - val acc: 0.7250 - 3s/epoch - 37ms/step
Epoch 560/1000
68/68 - 3s - loss: 0.0017 - acc: 1.0000 - val loss: 0.9362 - val acc: 0.7528 - 3s/epoch - 39ms/step
Epoch 561/1000
68/68 - 3s - loss: 0.0029 - acc: 1.0000 - val loss: 0.8547 - val acc: 0.7750 - 3s/epoch - 38ms/step
Epoch 562/1000
68/68 - 3s - loss: 0.0018 - acc: 1.0000 - val loss: 0.8704 - val acc: 0.7583 - 3s/epoch - 38ms/step
Epoch 563/1000
68/68 - 3s - loss: 0.0029 - acc: 1.0000 - val loss: 0.9006 - val acc: 0.7472 - 3s/epoch - 39ms/step
Epoch 564/1000
68/68 - 3s - loss: 0.0020 - acc: 1.0000 - val loss: 0.8656 - val acc: 0.7611 - 3s/epoch - 37ms/step
Epoch 565/1000
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68/68 - 3s - loss: 0.0032 - acc: 1.0000 - val loss: 0.8008 - val acc: 0.7833 - 3s/epoch - 37ms/step
Epoch 566/1000
68/68 - 3s - loss: 0.0015 - acc: 1.0000 - val loss: 0.8335 - val acc: 0.7806 - 3s/epoch - 39ms/step
Epoch 567/1000
68/68 - 3s - loss: 0.0017 - acc: 1.0000 - val loss: 0.9798 - val acc: 0.7389 - 3s/epoch - 38ms/step
Epoch 568/1000
68/68 - 3s - loss: 0.0019 - acc: 1.0000 - val loss: 1.0012 - val acc: 0.7194 - 3s/epoch - 38ms/step
Epoch 569/1000
68/68 - 3s - loss: 0.0106 - acc: 0.9963 - val loss: 1.0442 - val acc: 0.7361 - 3s/epoch - 39ms/step
Epoch 570/1000
68/68 - 3s - loss: 0.0079 - acc: 0.9981 - val loss: 0.9996 - val acc: 0.7361 - 3s/epoch - 39ms/step
Epoch 571/1000
68/68 - 4s - loss: 0.0150 - acc: 0.9954 - val loss: 1.1782 - val acc: 0.6917 - 4s/epoch - 56ms/step
Epoch 572/1000
68/68 - 4s - loss: 0.0116 - acc: 0.9981 - val loss: 0.8998 - val acc: 0.7500 - 4s/epoch - 54ms/step
Epoch 573/1000
68/68 - 3s - loss: 0.0109 - acc: 0.9972 - val loss: 0.8449 - val acc: 0.7583 - 3s/epoch - 48ms/step
Epoch 574/1000
68/68 - 3s - loss: 0.0130 - acc: 0.9972 - val loss: 1.0154 - val acc: 0.7306 - 3s/epoch - 39ms/step
Epoch 575/1000
68/68 - 3s - loss: 0.0099 - acc: 0.9972 - val loss: 0.8937 - val acc: 0.7500 - 3s/epoch - 37ms/step
Epoch 576/1000
68/68 - 3s - loss: 0.0065 - acc: 0.9991 - val_loss: 0.7960 - val_acc: 0.7611 - 3s/epoch - 40ms/step
Epoch 577/1000
68/68 - 3s - loss: 0.0046 - acc: 1.0000 - val loss: 0.8961 - val acc: 0.7500 - 3s/epoch - 37ms/step
Epoch 578/1000
68/68 - 3s - loss: 0.0064 - acc: 0.9991 - val loss: 1.1651 - val acc: 0.7000 - 3s/epoch - 38ms/step
Epoch 579/1000
68/68 - 3s - loss: 0.0056 - acc: 0.9991 - val loss: 1.0645 - val acc: 0.7333 - 3s/epoch - 38ms/step
Epoch 580/1000
68/68 - 3s - loss: 0.0053 - acc: 0.9991 - val loss: 0.8058 - val acc: 0.7639 - 3s/epoch - 39ms/step
Epoch 581/1000
68/68 - 3s - loss: 0.0059 - acc: 0.9981 - val loss: 1.1472 - val acc: 0.6972 - 3s/epoch - 38ms/step
Epoch 582/1000
68/68 - 3s - loss: 0.0026 - acc: 1.0000 - val loss: 0.9711 - val acc: 0.7389 - 3s/epoch - 39ms/step
Epoch 583/1000
68/68 - 3s - loss: 0.0029 - acc: 1.0000 - val loss: 0.8789 - val acc: 0.7750 - 3s/epoch - 38ms/step
Epoch 584/1000
68/68 - 3s - loss: 0.0020 - acc: 1.0000 - val loss: 1.0053 - val acc: 0.7472 - 3s/epoch - 37ms/step
Epoch 585/1000
68/68 - 3s - loss: 0.0091 - acc: 0.9972 - val loss: 1.0006 - val acc: 0.7306 - 3s/epoch - 37ms/step
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Epoch 586/1000 68/68 - 3s - loss: 0.0076 - acc: 0.9991 - val loss: 0.7997 - val acc: 0.7944 - 3s/epoch - 46ms/step Epoch 587/1000 68/68 - 2s - loss: 0.0072 - acc: 0.9981 - val loss: 1.3325 - val acc: 0.6694 - 2s/epoch - 36ms/step Epoch 588/1000 68/68 - 3s - loss: 0.0052 - acc: 0.9991 - val loss: 0.9240 - val acc: 0.7528 - 3s/epoch - 37ms/step Epoch 589/1000 68/68 - 3s - loss: 0.0028 - acc: 1.0000 - val loss: 0.8278 - val acc: 0.7806 - 3s/epoch - 37ms/step Epoch 590/1000 68/68 - 3s - loss: 0.0025 - acc: 1.0000 - val loss: 1.0966 - val acc: 0.7361 - 3s/epoch - 37ms/step Epoch 591/1000 68/68 - 3s - loss: 0.0019 - acc: 1.0000 - val loss: 0.9395 - val acc: 0.7444 - 3s/epoch - 37ms/step Epoch 592/1000 68/68 - 3s - loss: 0.0032 - acc: 1.0000 - val loss: 1.0298 - val acc: 0.7222 - 3s/epoch - 38ms/step Epoch 593/1000 68/68 - 3s - loss: 0.0049 - acc: 0.9991 - val loss: 1.0030 - val acc: 0.7444 - 3s/epoch - 39ms/step Epoch 594/1000 68/68 - 3s - loss: 0.0035 - acc: 0.9991 - val loss: 1.0784 - val acc: 0.7222 - 3s/epoch - 40ms/step Epoch 595/1000 68/68 - 3s - loss: 0.0037 - acc: 1.0000 - val loss: 0.9497 - val acc: 0.7639 - 3s/epoch - 38ms/step Epoch 596/1000 68/68 - 3s - loss: 0.0046 - acc: 1.0000 - val loss: 1.0509 - val acc: 0.7444 - 3s/epoch - 38ms/step Epoch 597/1000 68/68 - 3s - loss: 0.0023 - acc: 1.0000 - val loss: 1.0818 - val acc: 0.7222 - 3s/epoch - 39ms/step Epoch 598/1000 68/68 - 3s - loss: 0.0051 - acc: 0.9981 - val loss: 1.2375 - val acc: 0.6917 - 3s/epoch - 39ms/step Epoch 599/1000 68/68 - 3s - loss: 0.0053 - acc: 0.9991 - val loss: 0.9141 - val acc: 0.7472 - 3s/epoch - 39ms/step Epoch 600/1000 68/68 - 3s - loss: 0.0082 - acc: 0.9981 - val loss: 0.9642 - val acc: 0.7722 - 3s/epoch - 40ms/step Epoch 601/1000 68/68 - 3s - loss: 0.0078 - acc: 0.9991 - val loss: 1.0814 - val acc: 0.7278 - 3s/epoch - 43ms/step Epoch 602/1000 68/68 - 3s - loss: 0.0053 - acc: 0.9991 - val loss: 0.9635 - val acc: 0.7389 - 3s/epoch - 38ms/step Epoch 603/1000 68/68 - 3s - loss: 0.0068 - acc: 0.9991 - val loss: 0.8853 - val acc: 0.7528 - 3s/epoch - 39ms/step Epoch 604/1000 68/68 - 3s - loss: 0.0072 - acc: 0.9981 - val loss: 1.0518 - val acc: 0.7250 - 3s/epoch - 41ms/step Epoch 605/1000 68/68 - 3s - loss: 0.0029 - acc: 1.0000 - val loss: 1.1267 - val acc: 0.7139 - 3s/epoch - 41ms/step Epoch 606/1000 68/68 - 3s - loss: 0.0025 - acc: 1.0000 - val loss: 0.9773 - val acc: 0.7389 - 3s/epoch - 38ms/step Epoch 607/1000 68/68 - 3s - loss: 0.0032 - acc: 1.0000 - val loss: 1.0008 - val acc: 0.7306 - 3s/epoch - 39ms/step Epoch 608/1000 68/68 - 3s - loss: 0.0022 - acc: 1.0000 - val loss: 0.9687 - val acc: 0.7361 - 3s/epoch - 39ms/step Epoch 609/1000 68/68 - 3s - loss: 0.0030 - acc: 1.0000 - val loss: 1.1779 - val acc: 0.6917 - 3s/epoch - 42ms/step Epoch 610/1000 68/68 - 3s - loss: 0.0041 - acc: 0.9991 - val loss: 0.9129 - val acc: 0.7333 - 3s/epoch - 42ms/step Epoch 611/1000 68/68 - 3s - loss: 0.0032 - acc: 1.0000 - val loss: 0.9721 - val acc: 0.7222 - 3s/epoch - 42ms/step Epoch 612/1000 68/68 - 3s - loss: 0.0020 - acc: 1.0000 - val loss: 0.9894 - val acc: 0.7306 - 3s/epoch - 42ms/step Epoch 613/1000 68/68 - 3s - loss: 0.0043 - acc: 0.9981 - val loss: 1.0021 - val acc: 0.7333 - 3s/epoch - 41ms/step Epoch 614/1000 68/68 - 3s - loss: 0.0045 - acc: 1.0000 - val loss: 1.1602 - val acc: 0.7000 - 3s/epoch - 43ms/step Epoch 615/1000 68/68 - 3s - loss: 0.0036 - acc: 0.9981 - val loss: 0.9841 - val acc: 0.7194 - 3s/epoch - 41ms/step Epoch 616/1000 68/68 - 3s - loss: 0.0136 - acc: 0.9963 - val loss: 1.0412 - val acc: 0.7111 - 3s/epoch - 38ms/step Epoch 617/1000 68/68 - 3s - loss: 0.0071 - acc: 0.9991 - val loss: 1.2635 - val acc: 0.6778 - 3s/epoch - 38ms/step Epoch 618/1000 68/68 - 3s - loss: 0.0211 - acc: 0.9926 - val loss: 0.8957 - val acc: 0.7444 - 3s/epoch - 40ms/step Epoch 619/1000 68/68 - 3s - loss: 0.0106 - acc: 0.9972 - val loss: 0.8771 - val acc: 0.7500 - 3s/epoch - 40ms/step Epoch 620/1000 68/68 - 3s - loss: 0.0088 - acc: 0.9981 - val loss: 0.9258 - val acc: 0.7222 - 3s/epoch - 39ms/step Epoch 621/1000 68/68 - 3s - loss: 0.0074 - acc: 0.9981 - val loss: 1.2035 - val acc: 0.7083 - 3s/epoch - 37ms/step Epoch 622/1000 68/68 - 3s - loss: 0.0054 - acc: 0.9991 - val loss: 1.0206 - val acc: 0.7194 - 3s/epoch - 37ms/step Epoch 623/1000 68/68 - 3s - loss: 0.0042 - acc: 0.9991 - val loss: 0.9076 - val acc: 0.7389 - 3s/epoch - 38ms/step Epoch 624/1000 68/68 - 3s - loss: 0.0068 - acc: 0.9981 - val loss: 0.8376 - val acc: 0.7861 - 3s/epoch - 38ms/step Epoch 625/1000 68/68 - 3s - loss: 0.0123 - acc: 0.9972 - val loss: 1.0443 - val acc: 0.7444 - 3s/epoch - 42ms/step Epoch 626/1000 68/68 - 3s - loss: 0.0153 - acc: 0.9926 - val loss: 1.1065 - val acc: 0.7278 - 3s/epoch - 47ms/step Epoch 627/1000 68/68 - 3s - loss: 0.0100 - acc: 0.9972 - val loss: 1.0365 - val acc: 0.7222 - 3s/epoch - 48ms/step Epoch 628/1000 68/68 - 3s - loss: 0.0046 - acc: 1.0000 - val loss: 0.9631 - val acc: 0.7333 - 3s/epoch - 47ms/step Epoch 629/1000 68/68 - 4s - loss: 0.0029 - acc: 1.0000 - val loss: 0.9257 - val acc: 0.7333 - 4s/epoch - 53ms/step Epoch 630/1000 68/68 - 3s - loss: 0.0036 - acc: 0.9991 - val loss: 0.9212 - val acc: 0.7556 - 3s/epoch - 48ms/step Epoch 631/1000 68/68 - 3s - loss: 0.0055 - acc: 0.9991 - val loss: 0.8368 - val acc: 0.7639 - 3s/epoch - 42ms/step Epoch 632/1000 68/68 - 3s - loss: 0.0081 - acc: 0.9981 - val loss: 1.0000 - val acc: 0.7361 - 3s/epoch - 51ms/step Epoch 633/1000 68/68 - 3s - loss: 0.0057 - acc: 0.9991 - val loss: 0.8556 - val acc: 0.7528 - 3s/epoch - 38ms/step Epoch 634/1000 68/68 - 3s - loss: 0.0041 - acc: 0.9991 - val loss: 0.8241 - val acc: 0.7639 - 3s/epoch - 37ms/step Epoch 635/1000 68/68 - 3s - loss: 0.0031 - acc: 1.0000 - val_loss: 0.8654 - val_acc: 0.7472 - 3s/epoch - 37ms/step Epoch 636/1000 68/68 - 3s - loss: 0.0038 - acc: 0.9991 - val loss: 0.8184 - val acc: 0.7639 - 3s/epoch - 38ms/step Epoch 637/1000 68/68 - 3s - loss: 0.0039 - acc: 0.9991 - val loss: 1.1174 - val acc: 0.7306 - 3s/epoch - 51ms/step Epoch 638/1000 68/68 - 3s - loss: 0.0031 - acc: 0.9991 - val loss: 1.1919 - val acc: 0.7028 - 3s/epoch - 45ms/step Epoch 639/1000 68/68 - 3s - loss: 0.0092 - acc: 0.9963 - val loss: 1.0501 - val acc: 0.7028 - 3s/epoch - 38ms/step Epoch 640/1000 68/68 - 3s - loss: 0.0059 - acc: 0.9981 - val loss: 0.8714 - val acc: 0.7389 - 3s/epoch - 39ms/step Epoch 641/1000 68/68 - 2s - loss: 0.0053 - acc: 0.9991 - val loss: 0.8517 - val acc: 0.7472 - 2s/epoch - 37ms/step Epoch 642/1000 68/68 - 3s - loss: 0.0036 - acc: 1.0000 - val loss: 0.8455 - val acc: 0.7500 - 3s/epoch - 38ms/step Epoch 643/1000 68/68 - 3s - loss: 0.0028 - acc: 0.9991 - val loss: 0.9977 - val acc: 0.7194 - 3s/epoch - 38ms/step Epoch 644/1000 68/68 - 3s - loss: 0.0032 - acc: 0.9991 - val loss: 1.0059 - val acc: 0.7194 - 3s/epoch - 41ms/step Epoch 645/1000 68/68 - 3s - loss: 0.0038 - acc: 0.9991 - val loss: 0.9789 - val acc: 0.7361 - 3s/epoch - 48ms/step Epoch 646/1000 68/68 - 3s - loss: 0.0024 - acc: 1.0000 - val loss: 0.9437 - val acc: 0.7333 - 3s/epoch - 38ms/step Epoch 647/1000 68/68 - 3s - loss: 0.0026 - acc: 1.0000 - val loss: 1.0362 - val acc: 0.7333 - 3s/epoch - 39ms/step Epoch 648/1000 68/68 - 4s - loss: 0.0027 - acc: 1.0000 - val loss: 0.8853 - val acc: 0.7722 - 4s/epoch - 57ms/step

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Epoch 649/1000
68/68 - 3s - loss: 0.0030 - acc: 1.0000 - val loss: 0.8975 - val acc: 0.7556 - 3s/epoch - 50ms/step
Epoch 650/1000
68/68 - 3s - loss: 0.0023 - acc: 1.0000 - val loss: 1.0294 - val acc: 0.7333 - 3s/epoch - 37ms/step
Epoch 651/1000
68/68 - 5s - loss: 0.0030 - acc: 1.0000 - val loss: 1.0125 - val acc: 0.7528 - 5s/epoch - 69ms/step
Epoch 652/1000
68/68 - 3s - loss: 0.0052 - acc: 0.9981 - val loss: 0.8403 - val acc: 0.7750 - 3s/epoch - 46ms/step
Epoch 653/1000
68/68 - 3s - loss: 0.0023 - acc: 1.0000 - val loss: 0.9642 - val acc: 0.7583 - 3s/epoch - 37ms/step
Epoch 654/1000
68/68 - 3s - loss: 0.0018 - acc: 1.0000 - val loss: 1.0646 - val acc: 0.7306 - 3s/epoch - 39ms/step
Epoch 655/1000
68/68 - 3s - loss: 0.0017 - acc: 1.0000 - val loss: 0.9801 - val acc: 0.7361 - 3s/epoch - 38ms/step
Epoch 656/1000
68/68 - 3s - loss: 9.2989e-04 - acc: 1.0000 - val loss: 0.9265 - val acc: 0.7472 - 3s/epoch - 41ms/step
Epoch 657/1000
68/68 - 4s - loss: 0.0020 - acc: 1.0000 - val loss: 0.9762 - val acc: 0.7333 - 4s/epoch - 63ms/step
Epoch 658/1000
68/68 - 3s - loss: 0.0019 - acc: 1.0000 - val loss: 0.9932 - val acc: 0.7361 - 3s/epoch - 46ms/step
Epoch 659/1000
68/68 - 3s - loss: 0.0012 - acc: 1.0000 - val loss: 0.9521 - val acc: 0.7583 - 3s/epoch - 41ms/step
Epoch 660/1000
68/68 - 3s - loss: 0.0023 - acc: 0.9991 - val loss: 0.9385 - val acc: 0.7472 - 3s/epoch - 39ms/step
Epoch 661/1000
68/68 - 3s - loss: 0.0045 - acc: 0.9991 - val loss: 1.0797 - val acc: 0.7417 - 3s/epoch - 38ms/step
Epoch 662/1000
68/68 - 5s - loss: 0.0024 - acc: 1.0000 - val loss: 1.0408 - val acc: 0.7306 - 5s/epoch - 69ms/step
Epoch 663/1000
68/68 - 4s - loss: 0.0024 - acc: 1.0000 - val loss: 0.8693 - val acc: 0.7583 - 4s/epoch - 63ms/step
Epoch 664/1000
68/68 - 3s - loss: 0.0022 - acc: 1.0000 - val loss: 1.0250 - val acc: 0.7194 - 3s/epoch - 43ms/step
Epoch 665/1000
68/68 - 3s - loss: 0.0017 - acc: 1.0000 - val loss: 0.9690 - val acc: 0.7389 - 3s/epoch - 44ms/step
Epoch 666/1000
68/68 - 4s - loss: 0.0011 - acc: 1.0000 - val loss: 0.9352 - val acc: 0.7417 - 4s/epoch - 52ms/step
Epoch 667/1000
68/68 - 3s - loss: 0.0048 - acc: 0.9991 - val loss: 0.8875 - val acc: 0.7694 - 3s/epoch - 45ms/step
Epoch 668/1000
68/68 - 3s - loss: 0.0126 - acc: 0.9972 - val loss: 1.3451 - val acc: 0.6639 - 3s/epoch - 39ms/step
Epoch 669/1000
68/68 - 3s - loss: 0.0124 - acc: 0.9972 - val loss: 0.9995 - val acc: 0.7583 - 3s/epoch - 43ms/step
```

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Epoch 670/1000
68/68 - 3s - loss: 0.0059 - acc: 0.9991 - val loss: 0.8792 - val acc: 0.7694 - 3s/epoch - 38ms/step
Epoch 671/1000
68/68 - 3s - loss: 0.0063 - acc: 0.9991 - val loss: 1.4333 - val acc: 0.6722 - 3s/epoch - 37ms/step
Epoch 672/1000
68/68 - 3s - loss: 0.0037 - acc: 1.0000 - val loss: 1.1209 - val acc: 0.7139 - 3s/epoch - 38ms/step
Epoch 673/1000
68/68 - 3s - loss: 0.0026 - acc: 1.0000 - val loss: 1.0217 - val acc: 0.7333 - 3s/epoch - 45ms/step
Epoch 674/1000
68/68 - 3s - loss: 0.0015 - acc: 1.0000 - val loss: 0.9517 - val acc: 0.7417 - 3s/epoch - 40ms/step
Epoch 675/1000
68/68 - 3s - loss: 0.0020 - acc: 1.0000 - val loss: 1.0257 - val acc: 0.7333 - 3s/epoch - 43ms/step
Epoch 676/1000
68/68 - 3s - loss: 0.0043 - acc: 1.0000 - val loss: 1.0575 - val acc: 0.7222 - 3s/epoch - 40ms/step
Epoch 677/1000
68/68 - 3s - loss: 0.0029 - acc: 1.0000 - val loss: 0.9934 - val acc: 0.7333 - 3s/epoch - 44ms/step
Epoch 678/1000
68/68 - 3s - loss: 0.0034 - acc: 1.0000 - val loss: 0.9587 - val acc: 0.7361 - 3s/epoch - 39ms/step
Epoch 679/1000
68/68 - 3s - loss: 0.0036 - acc: 1.0000 - val loss: 1.0055 - val acc: 0.6972 - 3s/epoch - 37ms/step
Epoch 680/1000
68/68 - 4s - loss: 0.0031 - acc: 1.0000 - val loss: 1.0223 - val acc: 0.7111 - 4s/epoch - 52ms/step
Epoch 681/1000
68/68 - 3s - loss: 0.0038 - acc: 0.9991 - val loss: 0.9614 - val acc: 0.7528 - 3s/epoch - 37ms/step
Epoch 682/1000
68/68 - 3s - loss: 0.0045 - acc: 0.9981 - val loss: 1.1012 - val acc: 0.7278 - 3s/epoch - 37ms/step
Epoch 683/1000
68/68 - 2s - loss: 0.0045 - acc: 0.9981 - val loss: 0.9046 - val acc: 0.7528 - 2s/epoch - 36ms/step
Epoch 684/1000
68/68 - 3s - loss: 0.0037 - acc: 1.0000 - val loss: 1.0157 - val acc: 0.7250 - 3s/epoch - 37ms/step
Epoch 685/1000
68/68 - 3s - loss: 0.0065 - acc: 0.9991 - val loss: 1.3336 - val acc: 0.6778 - 3s/epoch - 37ms/step
Epoch 686/1000
68/68 - 3s - loss: 0.0038 - acc: 1.0000 - val loss: 0.9965 - val acc: 0.7139 - 3s/epoch - 39ms/step
Epoch 687/1000
68/68 - 3s - loss: 0.0026 - acc: 1.0000 - val loss: 0.9537 - val acc: 0.7278 - 3s/epoch - 48ms/step
Epoch 688/1000
68/68 - 4s - loss: 0.0035 - acc: 1.0000 - val loss: 0.9928 - val acc: 0.7333 - 4s/epoch - 52ms/step
Epoch 689/1000
68/68 - 3s - loss: 0.0046 - acc: 0.9991 - val loss: 1.2483 - val acc: 0.6861 - 3s/epoch - 48ms/step
Epoch 690/1000
68/68 - 3s - loss: 0.0044 - acc: 0.9991 - val loss: 0.9340 - val acc: 0.7361 - 3s/epoch - 42ms/step
```

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Epoch 691/1000
68/68 - 3s - loss: 0.0022 - acc: 1.0000 - val loss: 0.8666 - val acc: 0.7528 - 3s/epoch - 42ms/step
Epoch 692/1000
68/68 - 3s - loss: 0.0019 - acc: 1.0000 - val loss: 0.9677 - val acc: 0.7333 - 3s/epoch - 50ms/step
Epoch 693/1000
68/68 - 3s - loss: 0.0065 - acc: 0.9981 - val loss: 1.1319 - val acc: 0.7167 - 3s/epoch - 38ms/step
Epoch 694/1000
68/68 - 3s - loss: 0.0055 - acc: 0.9991 - val loss: 1.1521 - val acc: 0.7000 - 3s/epoch - 37ms/step
Epoch 695/1000
68/68 - 3s - loss: 0.0042 - acc: 1.0000 - val loss: 1.2643 - val acc: 0.6917 - 3s/epoch - 39ms/step
Epoch 696/1000
68/68 - 3s - loss: 0.0054 - acc: 0.9991 - val loss: 1.3682 - val acc: 0.6694 - 3s/epoch - 45ms/step
Epoch 697/1000
68/68 - 3s - loss: 0.0069 - acc: 0.9963 - val loss: 0.8978 - val acc: 0.7306 - 3s/epoch - 39ms/step
Epoch 698/1000
68/68 - 3s - loss: 0.0080 - acc: 0.9972 - val_loss: 0.9516 - val_acc: 0.7639 - 3s/epoch - 47ms/step
Epoch 699/1000
68/68 - 3s - loss: 0.0035 - acc: 1.0000 - val loss: 0.9060 - val acc: 0.7556 - 3s/epoch - 40ms/step
Epoch 700/1000
68/68 - 3s - loss: 0.0042 - acc: 0.9991 - val loss: 0.8839 - val acc: 0.7500 - 3s/epoch - 40ms/step
Epoch 701/1000
68/68 - 3s - loss: 0.0042 - acc: 1.0000 - val loss: 0.9137 - val acc: 0.7556 - 3s/epoch - 38ms/step
Epoch 702/1000
68/68 - 3s - loss: 0.0045 - acc: 0.9981 - val loss: 1.1014 - val acc: 0.7222 - 3s/epoch - 43ms/step
Epoch 703/1000
68/68 - 3s - loss: 0.0033 - acc: 0.9991 - val loss: 1.0895 - val acc: 0.7222 - 3s/epoch - 37ms/step
Epoch 704/1000
68/68 - 3s - loss: 0.0073 - acc: 0.9981 - val loss: 0.9938 - val acc: 0.7111 - 3s/epoch - 42ms/step
Epoch 705/1000
68/68 - 3s - loss: 0.0026 - acc: 1.0000 - val loss: 0.9964 - val acc: 0.7361 - 3s/epoch - 39ms/step
Epoch 706/1000
68/68 - 3s - loss: 0.0059 - acc: 0.9991 - val loss: 1.3707 - val acc: 0.6556 - 3s/epoch - 50ms/step
Epoch 707/1000
68/68 - 4s - loss: 0.0073 - acc: 0.9972 - val loss: 1.0329 - val acc: 0.7250 - 4s/epoch - 57ms/step
Epoch 708/1000
68/68 - 3s - loss: 0.0066 - acc: 0.9991 - val loss: 1.2820 - val acc: 0.6833 - 3s/epoch - 51ms/step
Epoch 709/1000
68/68 - 3s - loss: 0.0048 - acc: 0.9991 - val loss: 0.9916 - val acc: 0.7194 - 3s/epoch - 46ms/step
Epoch 710/1000
68/68 - 3s - loss: 0.0028 - acc: 1.0000 - val loss: 1.0642 - val acc: 0.7333 - 3s/epoch - 38ms/step
Epoch 711/1000
68/68 - 3s - loss: 0.0061 - acc: 0.9991 - val loss: 1.1966 - val acc: 0.6889 - 3s/epoch - 38ms/step
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Epoch 712/1000
68/68 - 3s - loss: 0.0023 - acc: 1.0000 - val loss: 0.9954 - val acc: 0.7333 - 3s/epoch - 42ms/step
Epoch 713/1000
68/68 - 3s - loss: 0.0024 - acc: 1.0000 - val loss: 0.9322 - val acc: 0.7583 - 3s/epoch - 48ms/step
Epoch 714/1000
68/68 - 3s - loss: 0.0025 - acc: 1.0000 - val loss: 0.9073 - val acc: 0.7500 - 3s/epoch - 42ms/step
Epoch 715/1000
68/68 - 3s - loss: 0.0043 - acc: 0.9991 - val loss: 0.8859 - val acc: 0.7889 - 3s/epoch - 38ms/step
Epoch 716/1000
68/68 - 3s - loss: 0.0018 - acc: 1.0000 - val loss: 0.8741 - val acc: 0.7806 - 3s/epoch - 37ms/step
Epoch 717/1000
68/68 - 3s - loss: 0.0017 - acc: 1.0000 - val loss: 0.9185 - val acc: 0.7750 - 3s/epoch - 37ms/step
Epoch 718/1000
68/68 - 3s - loss: 0.0016 - acc: 1.0000 - val loss: 1.0082 - val acc: 0.7389 - 3s/epoch - 37ms/step
Epoch 719/1000
68/68 - 3s - loss: 9.6119e-04 - acc: 1.0000 - val loss: 0.9597 - val acc: 0.7500 - 3s/epoch - 41ms/step
Epoch 720/1000
68/68 - 3s - loss: 0.0053 - acc: 0.9972 - val loss: 1.0710 - val acc: 0.7472 - 3s/epoch - 37ms/step
Epoch 721/1000
68/68 - 3s - loss: 0.0014 - acc: 1.0000 - val loss: 0.9401 - val acc: 0.7556 - 3s/epoch - 39ms/step
Epoch 722/1000
68/68 - 3s - loss: 0.0047 - acc: 0.9991 - val loss: 1.2289 - val acc: 0.6806 - 3s/epoch - 43ms/step
Epoch 723/1000
68/68 - 3s - loss: 0.0030 - acc: 0.9991 - val loss: 1.2394 - val acc: 0.6722 - 3s/epoch - 38ms/step
Epoch 724/1000
68/68 - 3s - loss: 0.0103 - acc: 0.9963 - val loss: 1.0943 - val acc: 0.6972 - 3s/epoch - 41ms/step
Epoch 725/1000
68/68 - 3s - loss: 0.0087 - acc: 0.9981 - val loss: 0.9799 - val acc: 0.7472 - 3s/epoch - 46ms/step
Epoch 726/1000
68/68 - 3s - loss: 0.0080 - acc: 0.9991 - val loss: 0.9810 - val acc: 0.7361 - 3s/epoch - 41ms/step
Epoch 727/1000
68/68 - 3s - loss: 0.0112 - acc: 0.9991 - val loss: 0.9492 - val acc: 0.7500 - 3s/epoch - 40ms/step
Epoch 728/1000
68/68 - 3s - loss: 0.0181 - acc: 0.9944 - val loss: 1.3311 - val acc: 0.6778 - 3s/epoch - 43ms/step
Epoch 729/1000
68/68 - 3s - loss: 0.0115 - acc: 0.9972 - val loss: 1.2285 - val acc: 0.7139 - 3s/epoch - 38ms/step
Epoch 730/1000
68/68 - 2s - loss: 0.0085 - acc: 0.9972 - val loss: 0.9590 - val acc: 0.7556 - 2s/epoch - 36ms/step
Epoch 731/1000
68/68 - 3s - loss: 0.0155 - acc: 0.9944 - val loss: 0.8312 - val acc: 0.7833 - 3s/epoch - 37ms/step
Epoch 732/1000
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68/68 - 3s - loss: 0.0124 - acc: 0.9954 - val loss: 0.7990 - val acc: 0.7722 - 3s/epoch - 49ms/step
Epoch 733/1000
68/68 - 3s - loss: 0.0106 - acc: 0.9972 - val loss: 1.0985 - val acc: 0.7083 - 3s/epoch - 43ms/step
Epoch 734/1000
68/68 - 3s - loss: 0.0091 - acc: 0.9972 - val loss: 1.1986 - val acc: 0.6861 - 3s/epoch - 40ms/step
Epoch 735/1000
68/68 - 3s - loss: 0.0032 - acc: 1.0000 - val loss: 1.0926 - val acc: 0.6972 - 3s/epoch - 47ms/step
Epoch 736/1000
68/68 - 3s - loss: 0.0065 - acc: 0.9981 - val loss: 1.1329 - val acc: 0.7083 - 3s/epoch - 44ms/step
Epoch 737/1000
68/68 - 3s - loss: 0.0021 - acc: 1.0000 - val loss: 0.9199 - val acc: 0.7528 - 3s/epoch - 46ms/step
Epoch 738/1000
68/68 - 3s - loss: 0.0034 - acc: 1.0000 - val loss: 0.8427 - val acc: 0.7778 - 3s/epoch - 46ms/step
Epoch 739/1000
68/68 - 3s - loss: 0.0056 - acc: 0.9981 - val loss: 0.8105 - val acc: 0.7806 - 3s/epoch - 47ms/step
Epoch 740/1000
68/68 - 3s - loss: 0.0024 - acc: 1.0000 - val loss: 0.8293 - val acc: 0.7778 - 3s/epoch - 38ms/step
Epoch 741/1000
68/68 - 3s - loss: 0.0025 - acc: 1.0000 - val loss: 0.8478 - val acc: 0.7861 - 3s/epoch - 38ms/step
Epoch 742/1000
68/68 - 3s - loss: 0.0046 - acc: 0.9991 - val loss: 0.8756 - val acc: 0.7472 - 3s/epoch - 45ms/step
Epoch 743/1000
68/68 - 3s - loss: 0.0041 - acc: 0.9991 - val loss: 0.9504 - val acc: 0.7417 - 3s/epoch - 41ms/step
Epoch 744/1000
68/68 - 3s - loss: 0.0037 - acc: 0.9991 - val loss: 0.9071 - val acc: 0.7583 - 3s/epoch - 44ms/step
Epoch 745/1000
68/68 - 3s - loss: 0.0051 - acc: 0.9981 - val loss: 0.7998 - val acc: 0.7917 - 3s/epoch - 40ms/step
Epoch 746/1000
68/68 - 3s - loss: 0.0029 - acc: 0.9991 - val loss: 0.8753 - val acc: 0.7611 - 3s/epoch - 38ms/step
Epoch 747/1000
68/68 - 3s - loss: 0.0016 - acc: 1.0000 - val loss: 0.8396 - val acc: 0.7667 - 3s/epoch - 40ms/step
Epoch 748/1000
68/68 - 3s - loss: 0.0017 - acc: 1.0000 - val loss: 0.8481 - val acc: 0.7750 - 3s/epoch - 39ms/step
Epoch 749/1000
68/68 - 3s - loss: 0.0070 - acc: 0.9972 - val loss: 0.8723 - val acc: 0.7833 - 3s/epoch - 48ms/step
Epoch 750/1000
68/68 - 3s - loss: 0.0030 - acc: 0.9991 - val loss: 0.8219 - val acc: 0.8028 - 3s/epoch - 45ms/step
Epoch 751/1000
68/68 - 3s - loss: 0.0028 - acc: 1.0000 - val loss: 0.7724 - val acc: 0.8028 - 3s/epoch - 41ms/step
Epoch 752/1000
68/68 - 3s - loss: 0.0020 - acc: 1.0000 - val loss: 0.9990 - val acc: 0.7444 - 3s/epoch - 42ms/step
Epoch 753/1000
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68/68 - 3s - loss: 0.0022 - acc: 1.0000 - val loss: 0.8011 - val acc: 0.7861 - 3s/epoch - 49ms/step
Epoch 754/1000
68/68 - 3s - loss: 0.0014 - acc: 1.0000 - val loss: 0.8759 - val acc: 0.7667 - 3s/epoch - 38ms/step
Epoch 755/1000
68/68 - 3s - loss: 0.0016 - acc: 1.0000 - val loss: 0.9911 - val acc: 0.7444 - 3s/epoch - 38ms/step
Epoch 756/1000
68/68 - 3s - loss: 0.0035 - acc: 0.9991 - val loss: 1.0226 - val acc: 0.7306 - 3s/epoch - 38ms/step
Epoch 757/1000
68/68 - 3s - loss: 0.0011 - acc: 1.0000 - val loss: 0.8511 - val acc: 0.7611 - 3s/epoch - 38ms/step
Epoch 758/1000
68/68 - 3s - loss: 0.0023 - acc: 0.9991 - val loss: 0.7901 - val acc: 0.7917 - 3s/epoch - 51ms/step
Epoch 759/1000
68/68 - 3s - loss: 0.0015 - acc: 1.0000 - val loss: 0.7838 - val acc: 0.8000 - 3s/epoch - 39ms/step
Epoch 760/1000
68/68 - 3s - loss: 0.0113 - acc: 0.9954 - val loss: 0.9624 - val acc: 0.7444 - 3s/epoch - 38ms/step
Epoch 761/1000
68/68 - 3s - loss: 0.0054 - acc: 0.9991 - val loss: 1.1205 - val acc: 0.7250 - 3s/epoch - 39ms/step
Epoch 762/1000
68/68 - 4s - loss: 0.0062 - acc: 0.9972 - val loss: 1.3837 - val acc: 0.6639 - 4s/epoch - 54ms/step
Epoch 763/1000
68/68 - 3s - loss: 0.0077 - acc: 0.9981 - val loss: 0.7748 - val acc: 0.7889 - 3s/epoch - 42ms/step
Epoch 764/1000
68/68 - 3s - loss: 0.0020 - acc: 1.0000 - val loss: 0.8366 - val acc: 0.7750 - 3s/epoch - 38ms/step
Epoch 765/1000
68/68 - 3s - loss: 0.0018 - acc: 1.0000 - val loss: 0.9137 - val acc: 0.7667 - 3s/epoch - 38ms/step
Epoch 766/1000
68/68 - 3s - loss: 0.0015 - acc: 1.0000 - val loss: 0.9402 - val acc: 0.7556 - 3s/epoch - 38ms/step
Epoch 767/1000
68/68 - 3s - loss: 0.0015 - acc: 1.0000 - val loss: 0.8603 - val acc: 0.7722 - 3s/epoch - 38ms/step
Epoch 768/1000
68/68 - 3s - loss: 0.0019 - acc: 1.0000 - val loss: 0.8192 - val acc: 0.7722 - 3s/epoch - 38ms/step
Epoch 769/1000
68/68 - 4s - loss: 0.0017 - acc: 1.0000 - val loss: 0.9184 - val acc: 0.7500 - 4s/epoch - 53ms/step
Epoch 770/1000
68/68 - 3s - loss: 0.0025 - acc: 0.9991 - val loss: 0.8079 - val acc: 0.7722 - 3s/epoch - 51ms/step
Epoch 771/1000
68/68 - 3s - loss: 0.0029 - acc: 0.9991 - val loss: 1.0497 - val acc: 0.7278 - 3s/epoch - 39ms/step
Epoch 772/1000
68/68 - 3s - loss: 0.0033 - acc: 1.0000 - val loss: 0.9377 - val acc: 0.7500 - 3s/epoch - 48ms/step
Epoch 773/1000
68/68 - 3s - loss: 0.0036 - acc: 0.9991 - val loss: 0.8776 - val acc: 0.7528 - 3s/epoch - 43ms/step
Epoch 774/1000
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68/68 - 4s - loss: 0.0081 - acc: 0.9981 - val loss: 1.0643 - val acc: 0.7222 - 4s/epoch - 54ms/step
Epoch 775/1000
68/68 - 3s - loss: 0.0029 - acc: 1.0000 - val loss: 0.8841 - val acc: 0.7639 - 3s/epoch - 40ms/step
Epoch 776/1000
68/68 - 3s - loss: 0.0022 - acc: 1.0000 - val loss: 0.8596 - val acc: 0.7667 - 3s/epoch - 40ms/step
Epoch 777/1000
68/68 - 3s - loss: 0.0043 - acc: 0.9981 - val loss: 0.9829 - val acc: 0.7361 - 3s/epoch - 39ms/step
Epoch 778/1000
68/68 - 3s - loss: 0.0034 - acc: 1.0000 - val loss: 0.8999 - val acc: 0.7444 - 3s/epoch - 38ms/step
Epoch 779/1000
68/68 - 3s - loss: 0.0108 - acc: 0.9972 - val loss: 0.8946 - val acc: 0.7472 - 3s/epoch - 39ms/step
Epoch 780/1000
68/68 - 3s - loss: 0.0066 - acc: 0.9981 - val loss: 1.0556 - val acc: 0.7278 - 3s/epoch - 38ms/step
Epoch 781/1000
68/68 - 3s - loss: 0.0049 - acc: 0.9991 - val loss: 1.0757 - val acc: 0.7222 - 3s/epoch - 37ms/step
Epoch 782/1000
68/68 - 3s - loss: 0.0100 - acc: 0.9963 - val loss: 1.4390 - val acc: 0.6694 - 3s/epoch - 37ms/step
Epoch 783/1000
68/68 - 3s - loss: 0.0051 - acc: 0.9991 - val loss: 1.1632 - val acc: 0.7111 - 3s/epoch - 39ms/step
Epoch 784/1000
68/68 - 3s - loss: 0.0097 - acc: 0.9972 - val loss: 0.8605 - val acc: 0.7722 - 3s/epoch - 48ms/step
Epoch 785/1000
68/68 - 3s - loss: 0.0053 - acc: 0.9991 - val loss: 0.9552 - val acc: 0.7667 - 3s/epoch - 40ms/step
Epoch 786/1000
68/68 - 3s - loss: 0.0117 - acc: 0.9963 - val loss: 1.1478 - val acc: 0.7167 - 3s/epoch - 41ms/step
Epoch 787/1000
68/68 - 3s - loss: 0.0079 - acc: 0.9972 - val loss: 1.4689 - val acc: 0.6778 - 3s/epoch - 41ms/step
Epoch 788/1000
68/68 - 3s - loss: 0.0050 - acc: 0.9991 - val loss: 1.1021 - val acc: 0.7222 - 3s/epoch - 41ms/step
Epoch 789/1000
68/68 - 3s - loss: 0.0030 - acc: 0.9991 - val loss: 1.0959 - val acc: 0.7222 - 3s/epoch - 39ms/step
Epoch 790/1000
68/68 - 3s - loss: 0.0086 - acc: 0.9972 - val loss: 1.4356 - val acc: 0.6694 - 3s/epoch - 41ms/step
Epoch 791/1000
68/68 - 3s - loss: 0.0063 - acc: 0.9981 - val loss: 0.8966 - val acc: 0.7583 - 3s/epoch - 41ms/step
Epoch 792/1000
68/68 - 3s - loss: 0.0036 - acc: 1.0000 - val loss: 0.8866 - val acc: 0.7639 - 3s/epoch - 38ms/step
Epoch 793/1000
68/68 - 3s - loss: 0.0029 - acc: 0.9991 - val loss: 1.1218 - val acc: 0.7278 - 3s/epoch - 38ms/step
Epoch 794/1000
68/68 - 3s - loss: 0.0060 - acc: 0.9981 - val loss: 0.9046 - val acc: 0.7528 - 3s/epoch - 43ms/step
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Epoch 795/1000
68/68 - 3s - loss: 0.0035 - acc: 1.0000 - val loss: 0.9563 - val acc: 0.7556 - 3s/epoch - 40ms/step
Epoch 796/1000
68/68 - 3s - loss: 0.0051 - acc: 0.9991 - val loss: 0.9235 - val acc: 0.7750 - 3s/epoch - 37ms/step
Epoch 797/1000
68/68 - 3s - loss: 0.0067 - acc: 0.9981 - val loss: 0.8260 - val acc: 0.7611 - 3s/epoch - 42ms/step
Epoch 798/1000
68/68 - 3s - loss: 0.0046 - acc: 0.9991 - val loss: 0.9322 - val acc: 0.7583 - 3s/epoch - 41ms/step
Epoch 799/1000
68/68 - 3s - loss: 0.0013 - acc: 1.0000 - val loss: 0.9671 - val acc: 0.7500 - 3s/epoch - 38ms/step
Epoch 800/1000
68/68 - 2s - loss: 0.0056 - acc: 0.9981 - val loss: 0.9969 - val acc: 0.7389 - 2s/epoch - 37ms/step
Epoch 801/1000
68/68 - 54s - loss: 0.0019 - acc: 1.0000 - val loss: 1.0060 - val acc: 0.7444 - 54s/epoch - 794ms/step
Epoch 802/1000
68/68 - 2s - loss: 0.0023 - acc: 1.0000 - val loss: 1.0116 - val acc: 0.7528 - 2s/epoch - 35ms/step
Epoch 803/1000
68/68 - 2s - loss: 0.0020 - acc: 1.0000 - val loss: 1.0129 - val acc: 0.7528 - 2s/epoch - 36ms/step
Epoch 804/1000
68/68 - 3s - loss: 0.0021 - acc: 1.0000 - val loss: 0.9042 - val acc: 0.7639 - 3s/epoch - 41ms/step
Epoch 805/1000
68/68 - 2s - loss: 0.0019 - acc: 1.0000 - val loss: 0.9459 - val acc: 0.7611 - 2s/epoch - 36ms/step
Epoch 806/1000
68/68 - 3s - loss: 0.0012 - acc: 1.0000 - val loss: 0.9328 - val acc: 0.7556 - 3s/epoch - 38ms/step
Epoch 807/1000
68/68 - 2s - loss: 0.0017 - acc: 0.9991 - val loss: 1.0134 - val acc: 0.7194 - 2s/epoch - 36ms/step
Epoch 808/1000
68/68 - 2s - loss: 0.0012 - acc: 1.0000 - val loss: 0.9072 - val acc: 0.7639 - 2s/epoch - 35ms/step
Epoch 809/1000
68/68 - 2s - loss: 0.0013 - acc: 1.0000 - val loss: 0.9103 - val acc: 0.7611 - 2s/epoch - 35ms/step
Epoch 810/1000
68/68 - 2s - loss: 0.0016 - acc: 1.0000 - val loss: 0.8595 - val acc: 0.7583 - 2s/epoch - 35ms/step
Epoch 811/1000
68/68 - 2s - loss: 0.0035 - acc: 0.9991 - val loss: 0.7435 - val acc: 0.7889 - 2s/epoch - 35ms/step
Epoch 812/1000
68/68 - 2s - loss: 0.0012 - acc: 1.0000 - val loss: 0.8047 - val acc: 0.7833 - 2s/epoch - 35ms/step
Epoch 813/1000
68/68 - 2s - loss: 0.0037 - acc: 0.9991 - val loss: 1.1054 - val acc: 0.7167 - 2s/epoch - 36ms/step
Epoch 814/1000
68/68 - 2s - loss: 0.0013 - acc: 1.0000 - val loss: 0.9630 - val acc: 0.7583 - 2s/epoch - 36ms/step
Epoch 815/1000
68/68 - 2s - loss: 0.0027 - acc: 1.0000 - val loss: 0.9111 - val acc: 0.7611 - 2s/epoch - 35ms/step
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Epoch 816/1000
68/68 - 2s - loss: 0.0014 - acc: 1.0000 - val loss: 0.9168 - val acc: 0.7667 - 2s/epoch - 35ms/step
Epoch 817/1000
68/68 - 2s - loss: 0.0019 - acc: 1.0000 - val loss: 0.8487 - val acc: 0.7806 - 2s/epoch - 35ms/step
Epoch 818/1000
68/68 - 2s - loss: 9.7093e-04 - acc: 1.0000 - val loss: 0.9045 - val acc: 0.7583 - 2s/epoch - 35ms/step
Epoch 819/1000
68/68 - 3s - loss: 0.0012 - acc: 1.0000 - val loss: 0.9280 - val acc: 0.7556 - 3s/epoch - 38ms/step
Epoch 820/1000
68/68 - 789s - loss: 9.7204e-04 - acc: 1.0000 - val loss: 0.8872 - val acc: 0.7528 - 789s/epoch - 12s/step
Epoch 821/1000
68/68 - 2s - loss: 0.0011 - acc: 1.0000 - val loss: 0.9247 - val acc: 0.7583 - 2s/epoch - 35ms/step
Epoch 822/1000
68/68 - 2s - loss: 9.3683e-04 - acc: 1.0000 - val loss: 0.9180 - val acc: 0.7639 - 2s/epoch - 36ms/step
Epoch 823/1000
68/68 - 2s - loss: 0.0011 - acc: 1.0000 - val loss: 0.8721 - val acc: 0.7694 - 2s/epoch - 35ms/step
Epoch 824/1000
68/68 - 2s - loss: 0.0012 - acc: 1.0000 - val loss: 0.8776 - val acc: 0.7722 - 2s/epoch - 35ms/step
Epoch 825/1000
68/68 - 2s - loss: 0.0027 - acc: 1.0000 - val loss: 1.5864 - val acc: 0.6667 - 2s/epoch - 35ms/step
Epoch 826/1000
68/68 - 2s - loss: 0.0021 - acc: 1.0000 - val loss: 0.9363 - val acc: 0.7528 - 2s/epoch - 35ms/step
Epoch 827/1000
68/68 - 2s - loss: 0.0021 - acc: 1.0000 - val loss: 1.0494 - val acc: 0.7333 - 2s/epoch - 35ms/step
Epoch 828/1000
68/68 - 2s - loss: 0.0059 - acc: 0.9991 - val loss: 0.9118 - val acc: 0.7778 - 2s/epoch - 35ms/step
Epoch 829/1000
68/68 - 2s - loss: 0.0058 - acc: 0.9981 - val loss: 0.8532 - val acc: 0.7778 - 2s/epoch - 35ms/step
Epoch 830/1000
68/68 - 2s - loss: 0.0035 - acc: 1.0000 - val loss: 0.9430 - val acc: 0.7472 - 2s/epoch - 35ms/step
Epoch 831/1000
68/68 - 2s - loss: 0.0053 - acc: 0.9981 - val loss: 1.0266 - val acc: 0.7278 - 2s/epoch - 35ms/step
Epoch 832/1000
68/68 - 3s - loss: 0.0030 - acc: 0.9991 - val loss: 1.1896 - val acc: 0.7056 - 3s/epoch - 38ms/step
Epoch 833/1000
68/68 - 2s - loss: 0.0081 - acc: 0.9981 - val loss: 1.0325 - val acc: 0.7306 - 2s/epoch - 36ms/step
Epoch 834/1000
68/68 - 2s - loss: 0.0106 - acc: 0.9972 - val loss: 1.1520 - val acc: 0.6972 - 2s/epoch - 35ms/step
Epoch 835/1000
68/68 - 2s - loss: 0.0073 - acc: 0.9981 - val loss: 0.9812 - val acc: 0.7611 - 2s/epoch - 35ms/step
Epoch 836/1000
68/68 - 2s - loss: 0.0059 - acc: 0.9991 - val loss: 0.9896 - val acc: 0.7500 - 2s/epoch - 35ms/step
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Epoch 837/1000
68/68 - 2s - loss: 0.0125 - acc: 0.9972 - val loss: 1.5748 - val acc: 0.6361 - 2s/epoch - 35ms/step
Epoch 838/1000
68/68 - 2s - loss: 0.0055 - acc: 0.9981 - val loss: 1.0125 - val acc: 0.7306 - 2s/epoch - 35ms/step
Epoch 839/1000
68/68 - 1042s - loss: 0.0052 - acc: 0.9991 - val loss: 1.1749 - val acc: 0.7111 - 1042s/epoch - 15s/step
Epoch 840/1000
68/68 - 2s - loss: 0.0061 - acc: 0.9981 - val loss: 1.1022 - val acc: 0.7278 - 2s/epoch - 35ms/step
Epoch 841/1000
68/68 - 421s - loss: 0.0036 - acc: 0.9991 - val loss: 0.8952 - val acc: 0.7472 - 421s/epoch - 6s/step
Epoch 842/1000
68/68 - 2s - loss: 0.0021 - acc: 1.0000 - val loss: 0.8869 - val acc: 0.7528 - 2s/epoch - 35ms/step
Epoch 843/1000
68/68 - 2s - loss: 0.0041 - acc: 1.0000 - val loss: 1.0040 - val acc: 0.7389 - 2s/epoch - 36ms/step
Epoch 844/1000
68/68 - 2s - loss: 0.0041 - acc: 0.9991 - val loss: 0.9592 - val acc: 0.7444 - 2s/epoch - 35ms/step
Epoch 845/1000
68/68 - 3s - loss: 0.0035 - acc: 0.9991 - val loss: 0.8531 - val acc: 0.7722 - 3s/epoch - 37ms/step
Epoch 846/1000
68/68 - 2s - loss: 0.0042 - acc: 0.9981 - val loss: 1.0769 - val acc: 0.7167 - 2s/epoch - 36ms/step
Epoch 847/1000
68/68 - 2s - loss: 0.0025 - acc: 1.0000 - val loss: 0.9643 - val acc: 0.7500 - 2s/epoch - 34ms/step
Epoch 848/1000
68/68 - 2s - loss: 0.0025 - acc: 1.0000 - val loss: 1.1233 - val acc: 0.7111 - 2s/epoch - 35ms/step
Epoch 849/1000
68/68 - 2s - loss: 0.0028 - acc: 0.9991 - val loss: 0.9502 - val acc: 0.7444 - 2s/epoch - 35ms/step
Epoch 850/1000
68/68 - 3s - loss: 0.0029 - acc: 1.0000 - val loss: 1.1220 - val acc: 0.7111 - 3s/epoch - 39ms/step
Epoch 851/1000
68/68 - 2s - loss: 0.0016 - acc: 1.0000 - val loss: 0.8684 - val acc: 0.7500 - 2s/epoch - 35ms/step
Epoch 852/1000
68/68 - 2s - loss: 0.0060 - acc: 0.9991 - val loss: 0.7922 - val acc: 0.8056 - 2s/epoch - 35ms/step
Epoch 853/1000
68/68 - 2s - loss: 0.0011 - acc: 1.0000 - val loss: 0.8877 - val acc: 0.7583 - 2s/epoch - 35ms/step
Epoch 854/1000
68/68 - 2s - loss: 0.0024 - acc: 1.0000 - val loss: 0.9922 - val acc: 0.7389 - 2s/epoch - 35ms/step
Epoch 855/1000
68/68 - 2s - loss: 0.0017 - acc: 1.0000 - val loss: 1.0267 - val acc: 0.7306 - 2s/epoch - 36ms/step
Epoch 856/1000
68/68 - 2s - loss: 0.0012 - acc: 1.0000 - val loss: 1.0264 - val acc: 0.7444 - 2s/epoch - 35ms/step
Epoch 857/1000
68/68 - 2s - loss: 0.0026 - acc: 0.9991 - val loss: 1.0399 - val acc: 0.7333 - 2s/epoch - 35ms/step
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Epoch 858/1000
68/68 - 2s - loss: 0.0138 - acc: 0.9972 - val loss: 0.7932 - val acc: 0.7833 - 2s/epoch - 35ms/step
Epoch 859/1000
68/68 - 2s - loss: 0.0033 - acc: 0.9991 - val loss: 1.0611 - val acc: 0.7472 - 2s/epoch - 35ms/step
Epoch 860/1000
68/68 - 2s - loss: 0.0032 - acc: 0.9991 - val loss: 0.9038 - val acc: 0.7611 - 2s/epoch - 35ms/step
Epoch 861/1000
68/68 - 977s - loss: 0.0016 - acc: 1.0000 - val loss: 0.9148 - val acc: 0.7611 - 977s/epoch - 14s/step
Epoch 862/1000
68/68 - 2s - loss: 0.0025 - acc: 0.9991 - val loss: 0.9343 - val acc: 0.7472 - 2s/epoch - 35ms/step
Epoch 863/1000
68/68 - 957s - loss: 0.0066 - acc: 0.9981 - val loss: 1.1468 - val acc: 0.7250 - 957s/epoch - 14s/step
Epoch 864/1000
68/68 - 2s - loss: 0.0052 - acc: 0.9981 - val loss: 1.1487 - val acc: 0.7083 - 2s/epoch - 35ms/step
Epoch 865/1000
68/68 - 658s - loss: 0.0048 - acc: 0.9981 - val loss: 0.9324 - val acc: 0.7889 - 658s/epoch - 10s/step
Epoch 866/1000
68/68 - 2s - loss: 0.0165 - acc: 0.9944 - val loss: 1.1663 - val acc: 0.7333 - 2s/epoch - 36ms/step
Epoch 867/1000
68/68 - 3s - loss: 0.0032 - acc: 1.0000 - val loss: 0.9143 - val acc: 0.7556 - 3s/epoch - 39ms/step
Epoch 868/1000
68/68 - 2s - loss: 0.0042 - acc: 0.9991 - val loss: 0.9446 - val acc: 0.7417 - 2s/epoch - 36ms/step
Epoch 869/1000
68/68 - 2s - loss: 0.0058 - acc: 0.9972 - val loss: 1.1952 - val acc: 0.7083 - 2s/epoch - 35ms/step
Epoch 870/1000
68/68 - 2s - loss: 0.0057 - acc: 0.9981 - val loss: 0.8274 - val acc: 0.7694 - 2s/epoch - 35ms/step
Epoch 871/1000
68/68 - 2s - loss: 0.0036 - acc: 0.9991 - val loss: 0.9313 - val acc: 0.7500 - 2s/epoch - 35ms/step
Epoch 872/1000
68/68 - 2s - loss: 0.0028 - acc: 1.0000 - val loss: 1.0315 - val acc: 0.7472 - 2s/epoch - 35ms/step
Epoch 873/1000
68/68 - 2s - loss: 0.0040 - acc: 0.9991 - val loss: 1.0194 - val acc: 0.7278 - 2s/epoch - 35ms/step
Epoch 874/1000
68/68 - 2s - loss: 0.0021 - acc: 1.0000 - val loss: 0.9732 - val acc: 0.7472 - 2s/epoch - 35ms/step
Epoch 875/1000
68/68 - 2s - loss: 0.0032 - acc: 0.9991 - val loss: 0.8187 - val acc: 0.7722 - 2s/epoch - 35ms/step
Epoch 876/1000
68/68 - 2s - loss: 0.0045 - acc: 0.9972 - val loss: 0.9707 - val acc: 0.7472 - 2s/epoch - 35ms/step
Epoch 877/1000
68/68 - 2s - loss: 0.0065 - acc: 0.9981 - val loss: 1.0968 - val acc: 0.7278 - 2s/epoch - 35ms/step
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Epoch 878/1000
68/68 - 2s - loss: 0.0045 - acc: 0.9981 - val loss: 1.2343 - val acc: 0.7000 - 2s/epoch - 35ms/step
Epoch 879/1000
68/68 - 2s - loss: 0.0071 - acc: 0.9972 - val loss: 0.8566 - val acc: 0.7639 - 2s/epoch - 35ms/step
Epoch 880/1000
68/68 - 2s - loss: 0.0030 - acc: 0.9991 - val loss: 1.0203 - val acc: 0.7250 - 2s/epoch - 35ms/step
Epoch 881/1000
68/68 - 2s - loss: 0.0031 - acc: 1.0000 - val loss: 0.8070 - val acc: 0.7861 - 2s/epoch - 35ms/step
Epoch 882/1000
68/68 - 2s - loss: 0.0049 - acc: 0.9991 - val loss: 0.7559 - val acc: 0.8167 - 2s/epoch - 35ms/step
Epoch 883/1000
68/68 - 2s - loss: 0.0057 - acc: 0.9991 - val loss: 0.7599 - val acc: 0.7806 - 2s/epoch - 35ms/step
Epoch 884/1000
68/68 - 2s - loss: 0.0036 - acc: 0.9991 - val loss: 0.9268 - val acc: 0.7528 - 2s/epoch - 35ms/step
Epoch 885/1000
68/68 - 1056s - loss: 0.0046 - acc: 0.9981 - val loss: 0.8300 - val acc: 0.7556 - 1056s/epoch - 16s/step
Epoch 886/1000
68/68 - 2s - loss: 0.0038 - acc: 0.9991 - val loss: 0.8932 - val acc: 0.7667 - 2s/epoch - 36ms/step
Epoch 887/1000
68/68 - 740s - loss: 0.0016 - acc: 1.0000 - val loss: 0.8701 - val acc: 0.7778 - 740s/epoch - 11s/step
Epoch 888/1000
68/68 - 3s - loss: 0.0053 - acc: 0.9981 - val loss: 0.8390 - val acc: 0.7750 - 3s/epoch - 44ms/step
Epoch 889/1000
68/68 - 3s - loss: 0.0017 - acc: 1.0000 - val loss: 0.7469 - val acc: 0.7889 - 3s/epoch - 41ms/step
Epoch 890/1000
68/68 - 3s - loss: 0.0130 - acc: 0.9963 - val loss: 1.0922 - val acc: 0.7500 - 3s/epoch - 37ms/step
Epoch 891/1000
68/68 - 2s - loss: 0.0033 - acc: 0.9991 - val loss: 0.9040 - val acc: 0.7639 - 2s/epoch - 36ms/step
Epoch 892/1000
68/68 - 2s - loss: 0.0070 - acc: 0.9981 - val loss: 0.9190 - val acc: 0.7611 - 2s/epoch - 36ms/step
Epoch 893/1000
68/68 - 2s - loss: 0.0055 - acc: 0.9981 - val loss: 0.8540 - val acc: 0.7750 - 2s/epoch - 36ms/step
Epoch 894/1000
68/68 - 2s - loss: 0.0020 - acc: 1.0000 - val loss: 0.8695 - val acc: 0.7861 - 2s/epoch - 36ms/step
Epoch 895/1000
68/68 - 3s - loss: 0.0034 - acc: 1.0000 - val loss: 0.7880 - val acc: 0.7917 - 3s/epoch - 41ms/step
Epoch 896/1000
68/68 - 3s - loss: 0.0047 - acc: 0.9991 - val loss: 0.9580 - val acc: 0.7528 - 3s/epoch - 39ms/step
Epoch 897/1000
68/68 - 3s - loss: 0.0048 - acc: 0.9981 - val loss: 0.7645 - val acc: 0.7833 - 3s/epoch - 42ms/step
Epoch 898/1000
68/68 - 3s - loss: 0.0046 - acc: 0.9991 - val loss: 1.1076 - val acc: 0.7167 - 3s/epoch - 37ms/step
```

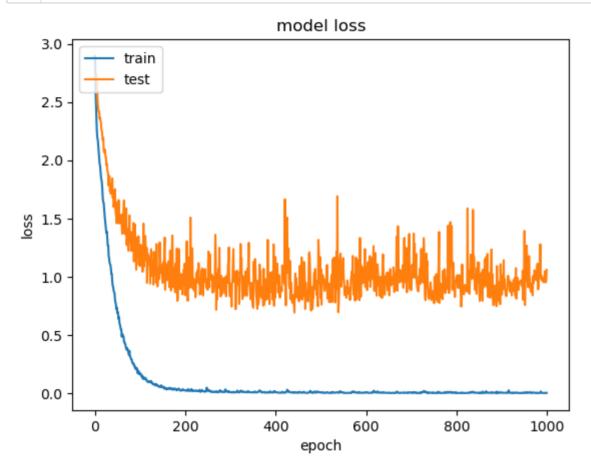
```
Epoch 899/1000
68/68 - 3s - loss: 0.0088 - acc: 0.9981 - val loss: 0.8936 - val acc: 0.7528 - 3s/epoch - 39ms/step
Epoch 900/1000
68/68 - 3s - loss: 0.0049 - acc: 0.9991 - val loss: 0.9874 - val acc: 0.7361 - 3s/epoch - 37ms/step
Epoch 901/1000
68/68 - 2s - loss: 0.0029 - acc: 1.0000 - val loss: 0.8465 - val acc: 0.7556 - 2s/epoch - 36ms/step
Epoch 902/1000
68/68 - 2s - loss: 0.0035 - acc: 0.9981 - val loss: 1.0099 - val acc: 0.7500 - 2s/epoch - 36ms/step
Epoch 903/1000
68/68 - 2s - loss: 0.0034 - acc: 1.0000 - val loss: 0.8935 - val acc: 0.7639 - 2s/epoch - 36ms/step
Epoch 904/1000
68/68 - 3s - loss: 0.0032 - acc: 0.9991 - val loss: 0.9929 - val acc: 0.7389 - 3s/epoch - 37ms/step
Epoch 905/1000
68/68 - 2s - loss: 0.0029 - acc: 0.9991 - val loss: 1.1419 - val acc: 0.7111 - 2s/epoch - 36ms/step
Epoch 906/1000
68/68 - 2s - loss: 0.0021 - acc: 1.0000 - val loss: 0.9025 - val acc: 0.7667 - 2s/epoch - 36ms/step
Epoch 907/1000
68/68 - 2s - loss: 0.0030 - acc: 0.9991 - val loss: 0.9794 - val acc: 0.7472 - 2s/epoch - 36ms/step
Epoch 908/1000
68/68 - 2s - loss: 0.0030 - acc: 1.0000 - val loss: 0.8964 - val acc: 0.7528 - 2s/epoch - 36ms/step
Epoch 909/1000
68/68 - 2s - loss: 0.0037 - acc: 0.9981 - val loss: 0.8650 - val acc: 0.7611 - 2s/epoch - 36ms/step
Epoch 910/1000
68/68 - 3s - loss: 0.0036 - acc: 0.9981 - val loss: 0.8413 - val acc: 0.7528 - 3s/epoch - 37ms/step
Epoch 911/1000
68/68 - 2s - loss: 0.0015 - acc: 1.0000 - val loss: 0.8323 - val acc: 0.7778 - 2s/epoch - 36ms/step
Epoch 912/1000
68/68 - 2s - loss: 0.0023 - acc: 0.9991 - val loss: 0.8875 - val acc: 0.7667 - 2s/epoch - 36ms/step
Epoch 913/1000
68/68 - 2s - loss: 0.0033 - acc: 0.9981 - val loss: 0.8926 - val acc: 0.7667 - 2s/epoch - 36ms/step
Epoch 914/1000
68/68 - 3s - loss: 0.0021 - acc: 0.9991 - val loss: 1.0056 - val acc: 0.7444 - 3s/epoch - 37ms/step
Epoch 915/1000
68/68 - 2s - loss: 0.0110 - acc: 0.9954 - val loss: 1.0083 - val acc: 0.7528 - 2s/epoch - 36ms/step
Epoch 916/1000
68/68 - 2s - loss: 0.0250 - acc: 0.9944 - val loss: 0.9753 - val acc: 0.7333 - 2s/epoch - 37ms/step
Epoch 917/1000
68/68 - 3s - loss: 0.0056 - acc: 0.9981 - val loss: 0.9738 - val acc: 0.7583 - 3s/epoch - 37ms/step
Epoch 918/1000
68/68 - 2s - loss: 0.0041 - acc: 0.9991 - val loss: 0.9328 - val acc: 0.7778 - 2s/epoch - 36ms/step
Epoch 919/1000
68/68 - 2s - loss: 0.0066 - acc: 0.9972 - val loss: 0.8724 - val acc: 0.7806 - 2s/epoch - 36ms/step
```

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Epoch 920/1000
68/68 - 2s - loss: 0.0034 - acc: 1.0000 - val loss: 0.9546 - val acc: 0.7500 - 2s/epoch - 36ms/step
Epoch 921/1000
68/68 - 2s - loss: 0.0026 - acc: 0.9991 - val loss: 0.8997 - val acc: 0.7750 - 2s/epoch - 36ms/step
Epoch 922/1000
68/68 - 2s - loss: 0.0013 - acc: 1.0000 - val loss: 0.8813 - val acc: 0.7722 - 2s/epoch - 36ms/step
Epoch 923/1000
68/68 - 2s - loss: 0.0017 - acc: 1.0000 - val loss: 0.8398 - val acc: 0.7750 - 2s/epoch - 36ms/step
Epoch 924/1000
68/68 - 2s - loss: 0.0017 - acc: 1.0000 - val loss: 0.8854 - val acc: 0.7750 - 2s/epoch - 36ms/step
Epoch 925/1000
68/68 - 2s - loss: 0.0042 - acc: 0.9991 - val loss: 0.9419 - val acc: 0.7639 - 2s/epoch - 36ms/step
Epoch 926/1000
68/68 - 2s - loss: 0.0015 - acc: 1.0000 - val loss: 0.9502 - val acc: 0.7694 - 2s/epoch - 36ms/step
Epoch 927/1000
68/68 - 2s - loss: 0.0044 - acc: 0.9991 - val loss: 0.9727 - val acc: 0.7583 - 2s/epoch - 36ms/step
Epoch 928/1000
68/68 - 2s - loss: 0.0021 - acc: 0.9991 - val loss: 0.8766 - val acc: 0.7722 - 2s/epoch - 36ms/step
Epoch 929/1000
68/68 - 2s - loss: 7.9521e-04 - acc: 1.0000 - val loss: 0.8928 - val acc: 0.7639 - 2s/epoch - 36ms/step
Epoch 930/1000
68/68 - 2s - loss: 0.0020 - acc: 0.9991 - val loss: 0.9919 - val acc: 0.7444 - 2s/epoch - 36ms/step
Epoch 931/1000
68/68 - 2s - loss: 0.0025 - acc: 0.9991 - val loss: 0.8348 - val acc: 0.7639 - 2s/epoch - 36ms/step
Epoch 932/1000
68/68 - 2s - loss: 0.0048 - acc: 0.9981 - val loss: 1.0734 - val acc: 0.7389 - 2s/epoch - 36ms/step
Epoch 933/1000
68/68 - 2s - loss: 0.0063 - acc: 0.9972 - val loss: 0.8120 - val acc: 0.7917 - 2s/epoch - 36ms/step
Epoch 934/1000
68/68 - 2s - loss: 0.0028 - acc: 0.9991 - val loss: 0.8768 - val acc: 0.7861 - 2s/epoch - 36ms/step
Epoch 935/1000
68/68 - 3s - loss: 0.0032 - acc: 0.9991 - val loss: 0.9804 - val acc: 0.7583 - 3s/epoch - 37ms/step
Epoch 936/1000
68/68 - 2s - loss: 0.0014 - acc: 1.0000 - val loss: 0.9905 - val acc: 0.7528 - 2s/epoch - 36ms/step
Epoch 937/1000
68/68 - 3s - loss: 0.0016 - acc: 1.0000 - val loss: 0.9119 - val acc: 0.7639 - 3s/epoch - 39ms/step
Epoch 938/1000
68/68 - 2s - loss: 0.0021 - acc: 0.9991 - val loss: 0.8878 - val acc: 0.7667 - 2s/epoch - 36ms/step
Epoch 939/1000
68/68 - 2s - loss: 0.0023 - acc: 1.0000 - val loss: 0.9580 - val acc: 0.7611 - 2s/epoch - 36ms/step
Epoch 940/1000
```

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68/68 - 2s - loss: 5.7538e-04 - acc: 1.0000 - val loss: 0.9405 - val acc: 0.7583 - 2s/epoch - 36ms/step
Epoch 941/1000
68/68 - 2s - loss: 5.9924e-04 - acc: 1.0000 - val loss: 0.9553 - val acc: 0.7639 - 2s/epoch - 36ms/step
Epoch 942/1000
68/68 - 2s - loss: 0.0011 - acc: 1.0000 - val loss: 0.9508 - val acc: 0.7694 - 2s/epoch - 36ms/step
Epoch 943/1000
68/68 - 2s - loss: 0.0027 - acc: 0.9991 - val loss: 0.9686 - val acc: 0.7611 - 2s/epoch - 36ms/step
Epoch 944/1000
68/68 - 2s - loss: 9.7515e-04 - acc: 1.0000 - val loss: 0.9592 - val acc: 0.7667 - 2s/epoch - 36ms/step
Epoch 945/1000
68/68 - 2s - loss: 0.0017 - acc: 1.0000 - val loss: 0.9260 - val acc: 0.7528 - 2s/epoch - 36ms/step
Epoch 946/1000
68/68 - 2s - loss: 0.0010 - acc: 1.0000 - val loss: 0.9168 - val acc: 0.7639 - 2s/epoch - 37ms/step
Epoch 947/1000
68/68 - 3s - loss: 0.0040 - acc: 0.9991 - val loss: 1.0530 - val acc: 0.7667 - 3s/epoch - 37ms/step
Epoch 948/1000
68/68 - 2s - loss: 0.0025 - acc: 0.9991 - val loss: 0.8014 - val acc: 0.8028 - 2s/epoch - 36ms/step
Epoch 949/1000
68/68 - 2s - loss: 0.0028 - acc: 0.9991 - val loss: 0.9052 - val acc: 0.7861 - 2s/epoch - 36ms/step
Epoch 950/1000
68/68 - 2s - loss: 0.0010 - acc: 1.0000 - val loss: 0.9122 - val acc: 0.7750 - 2s/epoch - 36ms/step
Epoch 951/1000
68/68 - 2s - loss: 0.0049 - acc: 0.9981 - val loss: 1.3937 - val acc: 0.6944 - 2s/epoch - 36ms/step
Epoch 952/1000
68/68 - 2s - loss: 0.0066 - acc: 0.9981 - val loss: 0.7573 - val acc: 0.8000 - 2s/epoch - 36ms/step
Epoch 953/1000
68/68 - 2s - loss: 0.0050 - acc: 0.9981 - val loss: 1.1448 - val acc: 0.7222 - 2s/epoch - 36ms/step
Epoch 954/1000
68/68 - 2s - loss: 0.0021 - acc: 1.0000 - val loss: 0.9802 - val acc: 0.7556 - 2s/epoch - 36ms/step
Epoch 955/1000
68/68 - 2s - loss: 0.0029 - acc: 1.0000 - val loss: 0.9654 - val acc: 0.7472 - 2s/epoch - 36ms/step
Epoch 956/1000
68/68 - 2s - loss: 0.0079 - acc: 0.9981 - val loss: 1.2675 - val acc: 0.7139 - 2s/epoch - 36ms/step
Epoch 957/1000
68/68 - 2s - loss: 0.0041 - acc: 0.9972 - val loss: 1.0372 - val acc: 0.7750 - 2s/epoch - 36ms/step
Epoch 958/1000
68/68 - 2s - loss: 0.0063 - acc: 0.9991 - val loss: 0.9608 - val acc: 0.7778 - 2s/epoch - 36ms/step
Epoch 959/1000
68/68 - 2s - loss: 0.0037 - acc: 0.9991 - val loss: 0.9099 - val acc: 0.7639 - 2s/epoch - 37ms/step
Epoch 960/1000
68/68 - 2s - loss: 0.0033 - acc: 0.9991 - val loss: 0.9578 - val acc: 0.7750 - 2s/epoch - 36ms/step
Epoch 961/1000
```

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68/68 - 3s - loss: 0.0048 - acc: 1.0000 - val loss: 1.1779 - val acc: 0.7194 - 3s/epoch - 39ms/step
Epoch 962/1000
68/68 - 3s - loss: 0.0075 - acc: 0.9972 - val loss: 1.0020 - val acc: 0.7583 - 3s/epoch - 37ms/step
Epoch 963/1000
68/68 - 2s - loss: 0.0100 - acc: 0.9963 - val loss: 0.9789 - val acc: 0.7528 - 2s/epoch - 36ms/step
Epoch 964/1000
68/68 - 2s - loss: 0.0040 - acc: 0.9991 - val loss: 0.8989 - val acc: 0.7889 - 2s/epoch - 36ms/step
Epoch 965/1000
68/68 - 2s - loss: 0.0018 - acc: 1.0000 - val loss: 0.8707 - val acc: 0.7861 - 2s/epoch - 36ms/step
Epoch 966/1000
68/68 - 2s - loss: 0.0015 - acc: 0.9991 - val loss: 0.8886 - val acc: 0.7972 - 2s/epoch - 36ms/step
Epoch 967/1000
68/68 - 2s - loss: 0.0025 - acc: 1.0000 - val loss: 0.9146 - val acc: 0.7889 - 2s/epoch - 36ms/step
Epoch 968/1000
68/68 - 2s - loss: 0.0068 - acc: 0.9981 - val loss: 0.9447 - val acc: 0.7750 - 2s/epoch - 36ms/step
Epoch 969/1000
68/68 - 2s - loss: 0.0048 - acc: 0.9991 - val loss: 0.8399 - val acc: 0.7833 - 2s/epoch - 36ms/step
Epoch 970/1000
68/68 - 2s - loss: 0.0047 - acc: 0.9991 - val loss: 1.0052 - val acc: 0.7583 - 2s/epoch - 37ms/step
Epoch 971/1000
68/68 - 2s - loss: 0.0063 - acc: 0.9972 - val loss: 0.9451 - val acc: 0.7639 - 2s/epoch - 36ms/step
Epoch 972/1000
68/68 - 2s - loss: 0.0048 - acc: 0.9991 - val loss: 0.9822 - val acc: 0.7611 - 2s/epoch - 36ms/step
Epoch 973/1000
68/68 - 2s - loss: 0.0038 - acc: 0.9991 - val loss: 1.0568 - val acc: 0.7722 - 2s/epoch - 36ms/step
Epoch 974/1000
68/68 - 2s - loss: 0.0021 - acc: 1.0000 - val loss: 1.0479 - val acc: 0.7639 - 2s/epoch - 36ms/step
Epoch 975/1000
68/68 - 2s - loss: 0.0018 - acc: 1.0000 - val loss: 0.9788 - val acc: 0.7806 - 2s/epoch - 36ms/step
Epoch 976/1000
68/68 - 2s - loss: 0.0012 - acc: 1.0000 - val loss: 1.0264 - val acc: 0.7611 - 2s/epoch - 36ms/step
Epoch 977/1000
68/68 - 2s - loss: 0.0039 - acc: 0.9991 - val loss: 0.9734 - val acc: 0.7722 - 2s/epoch - 36ms/step
Epoch 978/1000
68/68 - 3s - loss: 0.0011 - acc: 1.0000 - val loss: 0.9689 - val acc: 0.7694 - 3s/epoch - 41ms/step
Epoch 979/1000
68/68 - 2s - loss: 0.0026 - acc: 1.0000 - val loss: 1.0917 - val acc: 0.7417 - 2s/epoch - 35ms/step
Epoch 980/1000
68/68 - 2s - loss: 0.0021 - acc: 0.9991 - val loss: 1.1131 - val acc: 0.7306 - 2s/epoch - 36ms/step
Epoch 981/1000
68/68 - 2s - loss: 0.0023 - acc: 0.9991 - val loss: 0.8917 - val acc: 0.7944 - 2s/epoch - 36ms/step
Epoch 982/1000
```

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68/68 - 2s - loss: 0.0013 - acc: 1.0000 - val loss: 0.9205 - val acc: 0.7972 - 2s/epoch - 36ms/step
Epoch 983/1000
68/68 - 2s - loss: 0.0014 - acc: 1.0000 - val loss: 1.0164 - val acc: 0.7722 - 2s/epoch - 36ms/step
Epoch 984/1000
68/68 - 2s - loss: 5.8858e-04 - acc: 1.0000 - val loss: 0.9934 - val acc: 0.7750 - 2s/epoch - 37ms/step
Epoch 985/1000
68/68 - 3s - loss: 0.0024 - acc: 0.9991 - val loss: 1.0879 - val acc: 0.7583 - 3s/epoch - 38ms/step
Epoch 986/1000
68/68 - 3s - loss: 0.0038 - acc: 0.9991 - val loss: 1.2785 - val acc: 0.7111 - 3s/epoch - 38ms/step
Epoch 987/1000
68/68 - 2s - loss: 0.0151 - acc: 0.9963 - val loss: 0.9848 - val acc: 0.7611 - 2s/epoch - 36ms/step
Epoch 988/1000
68/68 - 2s - loss: 0.0082 - acc: 0.9981 - val loss: 1.0062 - val acc: 0.7639 - 2s/epoch - 36ms/step
Epoch 989/1000
68/68 - 2s - loss: 0.0034 - acc: 0.9991 - val loss: 1.0093 - val acc: 0.7806 - 2s/epoch - 36ms/step
Epoch 990/1000
68/68 - 2s - loss: 0.0018 - acc: 1.0000 - val loss: 0.9672 - val acc: 0.7972 - 2s/epoch - 36ms/step
Epoch 991/1000
68/68 - 2s - loss: 0.0021 - acc: 1.0000 - val loss: 0.9889 - val acc: 0.7806 - 2s/epoch - 36ms/step
Epoch 992/1000
68/68 - 2s - loss: 0.0017 - acc: 1.0000 - val loss: 0.9848 - val acc: 0.7861 - 2s/epoch - 36ms/step
Epoch 993/1000
68/68 - 2s - loss: 0.0015 - acc: 1.0000 - val loss: 0.9534 - val acc: 0.7833 - 2s/epoch - 36ms/step
Epoch 994/1000
68/68 - 2s - loss: 0.0013 - acc: 1.0000 - val loss: 0.9810 - val acc: 0.7722 - 2s/epoch - 36ms/step
Epoch 995/1000
68/68 - 2s - loss: 0.0010 - acc: 1.0000 - val loss: 0.9577 - val acc: 0.7750 - 2s/epoch - 36ms/step
Epoch 996/1000
68/68 - 3s - loss: 0.0026 - acc: 0.9991 - val loss: 1.0477 - val acc: 0.7500 - 3s/epoch - 38ms/step
Epoch 997/1000
68/68 - 2s - loss: 0.0019 - acc: 1.0000 - val loss: 0.9989 - val acc: 0.7667 - 2s/epoch - 36ms/step
Epoch 998/1000
68/68 - 2s - loss: 0.0025 - acc: 1.0000 - val loss: 0.9514 - val acc: 0.7694 - 2s/epoch - 36ms/step
Epoch 999/1000
68/68 - 3s - loss: 0.0013 - acc: 1.0000 - val loss: 0.9666 - val acc: 0.7583 - 3s/epoch - 37ms/step
Epoch 1000/1000
68/68 - 2s - loss: 0.0022 - acc: 0.9991 - val loss: 1.0597 - val acc: 0.7472 - 2s/epoch - 36ms/step
```

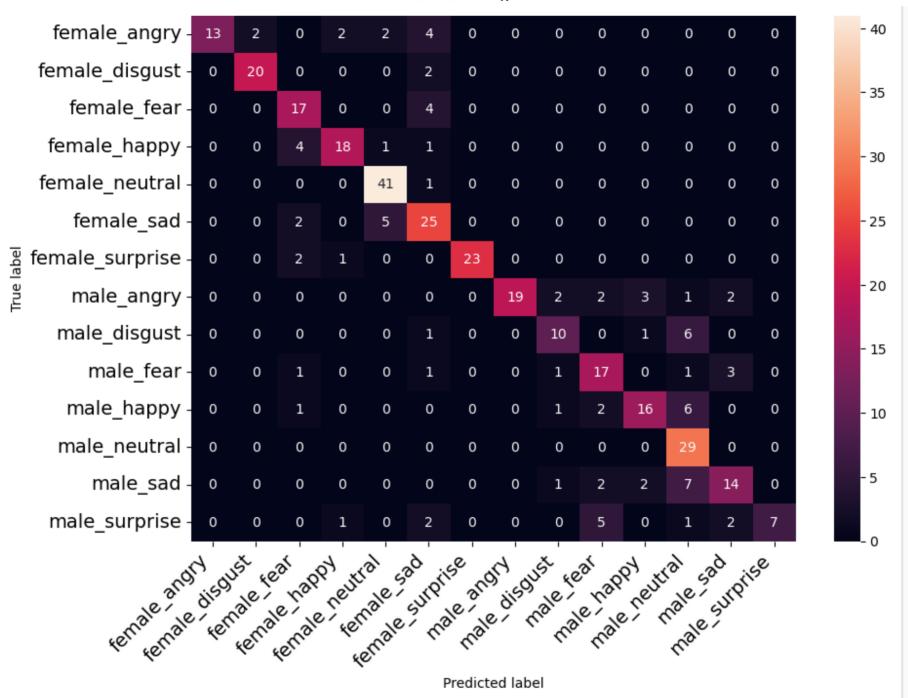


2022-10-20 18:26:20.614623: I tensorflow/core/grappler/optimizers/custom_graph_optimizer_registry.cc:114] Plu gin optimizer for device type GPU is enabled.

accuracy: 74.72%

23/23 - 0s - 281ms/epoch - 12ms/step

2022-10-20 18:26:20.970775: I tensorflow/core/grappler/optimizers/custom_graph_optimizer_registry.cc:114] Plu gin optimizer for device_type GPU is enabled.



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