Final term project

Team Name

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Import

```
In [55]: import keras
         from keras.models import Sequential
         from keras.layers import Dense, Dropout, Flatten
         from keras.layers import Conv2D, MaxPooling2D
         from tensorflow.keras import regularizers
         from tensorflow.keras.preprocessing.image import ImageDataGenerator
         from tensorflow.keras.layers import Input, Conv2D, MaxPooling2D,GlobalMaxPooling2D,
         Flatten, Dense, GlobalAveragePooling2D, Activation, MaxPool2D, AvgPool2D, Dropout, Conv1D, MaxPooling1D
         from keras.models import Model
         from keras import applications
         import tensorflow as tf
         from tadm import tadm
         from sklearn.model_selection import train_test_split
         import numpy as np # linear algebra
         import pandas as pd # data processing, CSV file I/O (e.g. pd.read_csv)
         import matplotlib.pyplot as plt
         import seaborn as sns
         import cv2
         import glob
         import os
         from sklearn.preprocessing import LabelEncoder
         from sklearn.preprocessing import OneHotEncoder
         from keras.utils import to_categorical
         from numpy import array
         from sklearn.preprocessing import LabelBinarizer
         from sklearn.preprocessing import OneHotEncoder
         from sklearn.compose import ColumnTransformer
         from sklearn import preprocessing
         from sklearn.utils import shuffle
```

data preparation

Project Overview

Based on the COVID-19 Cases dataset from open data toronto, this project will show detail about covid-19 by the Toronto public health. The details include demographic, geographic, and severity information for all confirmed and likely cases. The images for the X-ray is provided by kaggle. The Kaggle link is below: https://www.kaggle.com/praveengovi/coronahack-chest-xraydataset/)

Research question and problem framing

Based on this dataset, we are trying to predict the outcome based on age. This will allows people to know what age are getting more affected by COVID-19 and how to support them.

Who: The stakeholders will for this project will be people are creating a medicine for COVID-19, but also everyone will the community.

What: In this problem, we are trying to invesigate about COVID-19 and the affect on it

When: This problem needs to complete as soon as possible because this is affecting everyone daily life and health.

Where: The COVID-19 is affecting worldwide and it is a worldwide pandemic.

Types of features

The dataset that is being used are:

- id: This created a unique id for the cases that comes in.
- Outbreak Associated: This talks about where the outbreak is occuring in Toronto.
- Age Group: This feature is about age groups for COVID-19
- Neighbourhood Name: This feature talks about Toronto divided into 140 geographically distinct neighborhoods and can be used to understandwhere most cases are coming from
- FSA: This feature creates a unique code based on client postal code and help understand where thae case is occuring.
- Source of Infection: The feature talks aboutbefore symptoms start are potential acquisition sources, this include travels, close contact with a case, institutional setting, healthcare setting, community, pending, unknown/missing, and N/A.
- Classification:The feaure is about categorize the cases as confirmed according to standard criteria
- Episode Date: The feature talks about the date when the symptom occured.
- · Reported Date: The feature talks about date on which the case was reported to Toronto Public Health
- Client Gender: The feature that classifies people based on their assigned biological sex
- Outcome: This feature is include fatal(cases with a fatal outcome reported), resolved (case that is more than 14 days or the patient is recoved), Active (All other cases that is remaining)
- Currently Hospitalized: The feature talks about cases that are currently admitted to hospital
- · Currently in ICU: The feature is about cases that are currently admitted to the intensive care unit with no discharge date.
- Currently Intubated: The feature is about cases that were intubated.
- Ever Hospitalized:The feature is about cases that were hospitalized.
- Ever in ICU: This feature is the cases that were admitted to the intensive care unit (ICU).
- · Ever Intubated: This feature talks about cases that are currently intubated and that have been discharged.

In the Chest xray Corona Metadata.csv, it contains 6 features and 5910 unique values. While the Chest xray Corona dataset Summary.csv has 5 feature and 7 values.

Explore

```
In [78]: covid19 = pd.read_csv('C:/Users/Micky/Downloads/COVID19-cases.csv')
    train_df = pd.read_csv('C:/Users/Micky/Documents/GitHub/DL-final-project/Chest-xray/Chest_xray_Corona_Metadata.csv')
    test_img_dir = 'C:/Users/Micky/Documents/GitHub/DL-final-project/Chest-xray/Coronahack-Chest-XRay-Dataset/Coronahack-Chest-XRay-Dataset/test'
    train_img_dir = 'C:/Users/Micky/Documents//GitHub/DL-final-project/Chest-xray/Coronahack-Chest-XRay-Dataset/Coronahack-Chest-XRay-Dataset/test'

In [79]: covid19.shape

Out[79]: (14691, 17)

In [4]: covid19.head()
```

Out[4]:

	_id	Outbreak Associated		Neighbourhood Name	FSA	Source of Infection	Classification	Episode Date	Reported Date	Client Gender	Outcome	Currently Hospitalized	Currently in ICU		Eve Hospitalize
0	14692	Sporadic	50-59	Malvern	M1B	Institutional	CONFIRMED	2020- 03-25	2020-03- 27	MALE	RESOLVED	No	No	No	N
1	14693	Sporadic	20-29	Malvern	M1B	Community	CONFIRMED	2020- 03-20	2020-03- 28	MALE	RESOLVED	No	No	No	Y€
2	14694	Sporadic	60-69	Malvern	M1B	Travel	CONFIRMED	2020- 03-04	2020-03- 08	FEMALE	RESOLVED	No	No	No	Y€
3	14695	Outbreak Associated	50-59	Rouge	M1B	N/A - Outbreak associated	CONFIRMED	2020- 05-02	2020-05- 04	FEMALE	RESOLVED	No	No	No	N
4	14696	Sporadic	30-39	Rouge	M1B	Close contact	CONFIRMED	2020- 05-31	2020-06- 06	FEMALE	RESOLVED	No	No	No	N
4															>

In [5]: covid19.tail()

Out[5]:

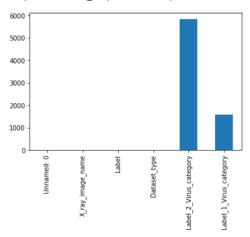
	_id	Outbreak Associated	Age Group	Neighbourhood Name	FSA	Source of Infection	Classification	Episode Date	Reported Date	Client Gender	Outcome	Currently Hospitalized	Currently in ICU	Currently Intubated	Hospit
14686	29378	Outbreak Associated	50-59	NaN	NaN	N/A - Outbreak associated	CONFIRMED	2020- 06-02	2020-06- 03	FEMALE	RESOLVED	No	No	No	
14687	29379	Outbreak Associated	50-59	NaN	NaN	N/A - Outbreak associated	CONFIRMED	2020- 06-11	2020-06- 15	FEMALE	RESOLVED	No	No	No	
14688	29380	Outbreak Associated	20-29	NaN	NaN	N/A - Outbreak associated	CONFIRMED	2020- 05-09	2020-05- 23	FEMALE	RESOLVED	No	No	No	
14689	29381	Outbreak Associated	40-49	NaN	NaN	N/A - Outbreak associated	CONFIRMED	2020- 06-18	2020-06- 19	FEMALE	RESOLVED	No	No	No	
14690	29382	Outbreak Associated	50-59	NaN	NaN	N/A - Outbreak associated	CONFIRMED	2020- 06-22	2020-06- 23	FEMALE	ACTIVE	Yes	No	No	

```
In [6]: covid19.describe()
Out[6]:
            count 14691.000000
           mean 22037.000000
                   4241.070737
              std
             min
                  14692.000000
                  18364.500000
            25%
                  22037.000000
                 25709.500000
            75%
                 29382.000000
 In [7]: covid19.head()
Out[7]:
                                        Neighbourhood FSA
                       Outbreak
                                   Age
                                                              Source of
                                                                                      Episode
Date
                                                                                               Reported
                                                                                                           Client
                                                                                                                                Currently
                                                                                                                                          Currently in ICU
                                                                                                                                                    Currently Intubated
                                                                                                                                                                     Eve
                                                                        Classification
                                                                                                                    Outcome
                 _id
                     Associated Group
                                                                                                                             Hospitalized
                                                 Name
                                                               Infection
                                                                                                   Date
                                                                                                          Gender
                                                                                                                                                              Hospitalize
                                                                                               2020-03-
27
                                                                                         2020-
                                                                         CONFIRMED
                                                                                                           MALE RESOLVED
           0 14692
                        Sporadic
                                 50-59
                                               Malvern M1B Institutional
                                                                                                                                                No
                                                                                                                                                          No
                                                                                                                                                                       Ν
                                                                                         2020-
                                                                                                2020-03-
           1 14693
                        Sporadic
                                 20-29
                                               Malvern M1B Community
                                                                         CONFIRMED
                                                                                                           MALE RESOLVED
                                                                                                                                                No
                                                                                                                                                          No
                                                                                                                                                                      Yε
                                                                                         03-20
                                                                                        2020-
                                                                                                2020-03-
           2 14694
                        Sporadic
                                  60-69
                                               Malvern M1B
                                                                  Travel
                                                                         CONFIRMED
                                                                                                         FEMALE RESOLVED
                                                                                                                                                          No
                                                                                                                                                                      Yε
                                                                                        03-04
                                                                  N/A
                       Outbreak
                                                                                         2020-
                                                                                                2020-05-
                                                Rouge M1B
                                                               Outbreak
                                                                         CONFIRMED
                                                                                                         FEMALE RESOLVED
           3 14695
                                 50-59
                                                                                                                                      Nο
                                                                                                                                                Nο
                                                                                                                                                          No
                                                                                                                                                                       Ν
                      Associated
                                                                                         05-02
                                                                                               2020-06-
06
                                                                  Close
                                                                                         2020-
           4 14696
                        Sporadic 30-39
                                                Rouge M1B
                                                                         CONFIRMED
                                                                                                         FEMALE RESOLVED
                                                                                                                                      No
                                                                                                                                                No
                                                                                                                                                          No
                                                                                                                                                                       Ν
                                                                 contact
                                                                                         05-31
In [34]:
In [35]: train_df.head(5)
Out[35]:
              Unnamed: 0 X_ray_image_name
                                              Label Dataset_type Label_2_Virus_category Label_1_Virus_category
           0
                            IM-0128-0001.jpeg
                                             Normal
                                                           TRAIN
                                                                                    NaN
                                                                                                          NaN
           1
                            IM-0127-0001.jpeg Normal
                                                           TRAIN
                                                                                   NaN
                                                                                                          NaN
                       2
                            IM-0125-0001.jpeg Normal
                                                           TRAIN
                                                                                    NaN
                                                                                                          NaN
           3
                       3
                            IM-0122-0001.jpeg Normal
                                                           TRAIN
                                                                                    NaN
                                                                                                          NaN
                            IM-0119-0001.jpeg Normal
                                                           TRAIN
                                                                                    NaN
                                                                                                          NaN
```

Missing Values

```
In [36]: missing_vals = train_df.isnull().sum()
missing_vals.plot(kind = 'bar')
```

Out[36]: <matplotlib.axes._subplots.AxesSubplot at 0x14cb4f1bbc8>



```
In [37]: train_df.dropna(how = 'all')
          train_df.isnull().sum()
Out[37]: Unnamed: 0
                                           0
                                           0
          X_ray_image_name
                                           0
          Label
          Dataset_type
                                           0
          Label_2_Virus_category
                                        5841
          Label_1_Virus_category
                                       1576
          dtype: int64
In [38]: train_data = train_df[train_df['Dataset_type'] == 'TRAIN']
    test_data = train_df[train_df['Dataset_type'] == 'TEST']
          assert train_data.shape[0] + test_data.shape[0] == train_df.shape[0]
          print(f"Shape of train data : {train data.shape}")
          print(f"Shape of test data : {test_data.shape}")
          test data.sample(10)
          Shape of train data: (5286, 6)
          Shape of test data: (624, 6)
Out[38]:
                                                          Label Dataset_type Label_2_Virus_category Label_1_Virus_category
                 Unnamed: 0
                                    X_ray_image_name
                       5507 NORMAL2-IM-0079-0001.jpeg
           5484
                                                                       TEST
                                                                                              NaN
                                                                                                                    NaN
                                                         Normal
           5295
                       5318
                                      IM-0010-0001.jpeg
                                                                       TEST
                                                                                              NaN
                                                                                                                    NaN
                                                         Normal
           5773
                       5796
                              person78_bacteria_386.jpeg Pnemonia
                                                                       TEST
                                                                                              NaN
                                                                                                                 bacteria
           5761
                                                                       TEST
                       5784
                              person81_bacteria_398.jpeg Pnemonia
                                                                                              NaN
                                                                                                                 bacteria
           5538
                                                                       TEST
                                                                                                                    Virus
                       5561
                              person1613_virus_2799.jpeg Pnemonia
                                                                                              NaN
           5514
                       5537 NORMAL2-IM-0343-0001.jpeg
                                                         Normal
                                                                       TEST
                                                                                              NaN
                                                                                                                    NaN
                                                                       TEST
                                                                                                                    NaN
           5444
                       5467 NORMAL2-IM-0221-0001.ipea
                                                                                              NaN
                                                         Normal
                                                                       TEST
           5837
                       5860
                                  person24_virus_58.jpeg Pnemonia
                                                                                              NaN
                                                                                                                    Virus
           5641
                       5664
                             person124_bacteria_589.jpeg Pnemonia
                                                                       TEST
                                                                                              NaN
                                                                                                                 bacteria
           5879
                       5902
                             person1668_virus_2882.jpeg Pnemonia
                                                                       TEST
                                                                                                                   Virus
                                                                                              NaN
 In [ ]: data_path = 'C:/UOFT/3546_TermProject/covid/DL-final-project/Chest_xray_seperate'
          data_dir_list = os.listdir(data_path)
          print(data_path)
```

Set Image Size and Epocs

```
In [ ]: img_rows=128
   img_cols=128
   num_channel=3
   num_epoch=40
```

Define the number of classes

```
In [ ]: num_classes = 2
   img_data_list=[]
```

```
In [ ]: def data_preperation():
            for dataset in data_dir_list:
                img_list=os.listdir(data_path+'/'+ dataset)
                print ('Loaded the images of dataset-'+'{}\n'.format(dataset))
                for img in img_list:
                     input_img=cv2.imread(data_path + '/'+ dataset + '/'+ img )
                    if ( num channel == 1):
                        input_img=cv2.cvtColor(input_img, cv2.COLOR_BGR2GRAY)
                    input_img_resize=cv2.resize(input_img,(128,128))
                    img_data_list.append(input_img_resize)
        def display_loss_accuracy(hist):
            train_loss=hist.history['loss']
            val_loss=hist.history['val_loss']
            train acc=hist.history['accuracy']
            val_acc=hist.history['val_accuracy']
            xc=range(num_epoch)
            plt.figure(1,figsize=(7,5))
            plt.plot(xc,train_loss)
            plt.plot(xc,val_loss)
            plt.xlabel('num of Epochs')
            plt.ylabel('loss')
            plt.title('train_loss vs val_loss')
            plt.grid(True)
            plt.legend(['train','val'])
            #print plt.style.available # use bmh, classic,ggplot for big pictures
            plt.style.use(['classic'])
            plt.figure(2,figsize=(7,5))
            plt.plot(xc,train_acc)
            plt.plot(xc,val acc)
            plt.xlabel('num of Epochs')
            plt.ylabel('accuracy')
            plt.title('train_acc vs val_acc')
            plt.grid(True)
            plt.legend(['train','val'],loc=4)
            #print plt.style.available # use bmh, classic,ggplot for big pictures
            plt.style.use(['classic'])
        def get_featuremaps(model, layer_idx, X_batch):
            get_activations = K.function([model.layers[0].input, K.learning_phase()],[model.layers[layer_idx].output,])
            activations = get_activations([X_batch,0])
            return activations
        def plot_featuremap_activations(activations):
            print (np.shape(activations))
            feature_maps = activations[0][0]
            print (np.shape(feature_maps))
            print (feature_maps.shape)
            fig=plt.figure(figsize=(16,16))
            plt.imshow(feature_maps[:,:,filter_num],cmap='gray')
            plt.savefig("featuremaps-layer-{}".format(layer_num) + "-filternum-{}".format(filter_num)+'.jpg')
            num_of_featuremaps=feature_maps.shape[2]
            fig=plt.figure(figsize=(16,16))
            plt.title("featuremaps-layer-{}".format(layer_num))
            subplot num=int(np.ceil(np.sqrt(num of featuremaps)))
            for i in range(int(num of featuremaps)):
                ax = fig.add_subplot(subplot_num, subplot_num, i+1)
                \verb|#ax.imshow| (output\_image[0,:,:,i], interpolation='nearest'|) | \verb|#to| see the first filter|
                ax.imshow(feature_maps[:,:,i],cmap='gray')
                plt.xticks([])
                plt.yticks([])
                plt.tight_layout()
            plt.show()
            fig.savefig("featuremaps-layer-{}".format(layer_num) + '.jpg')
        # Plotting the confusion matrix
        def plot_confusion_matrix(cm, classes,
                                   normalize=False,
                                   title='Confusion matrix',
                                   cmap=plt.cm.Blues):
            This function prints and plots the confusion matrix.
            Normalization can be applied by setting `normalize=True`.
            plt.figure()
            plt.imshow(cm, interpolation='nearest', cmap=cmap)
            plt.title(title)
            plt.colorbar()
            tick marks = np.arange(len(classes))
            plt.xticks(tick_marks, classes, rotation=45)
            plt.yticks(tick_marks, classes)
            if normalize:
                cm = cm.astype('float') / cm.sum(axis=1)[:, np.newaxis]
                print("Normalized confusion matrix")
            else:
```

```
print('Confusion matrix, without normalization')

print(cm)

thresh = cm.max() / 2.
for i, j in itertools.product(range(cm.shape[0]), range(cm.shape[1])):
    plt.text(j, i, cm[i, j],
        horizontalalignment="center",
        color="white" if cm[i, j] > thresh else "black")

plt.tight_layout()
plt.ylabel('True label')
plt.xlabel('Predicted label')
plt.show()
```

```
In [6]: data_preperation()
```

Loaded the images of dataset-NORMAL

Loaded the images of dataset-PNEUMONIA

```
In [7]: # Calling Data Preperation
        img_data = np.array(img_data_list)
        print(img_data.shape)
        img_data = img_data.astype('float32')
        img_data /= 255
        print (img_data.shape)
        # if num_channel==1:
                  img_data= np.expand_dims(img_data, axis=3)
                  print (img_data.shape)
        # else:
              if (K.image_data_format() == 'channels_first'):
                  img_data=np.rollaxis(img_data,3,1)
        print (img_data.shape)
        (5856, 128, 128, 3)
        (5856, 128, 128, 3)
        (5856, 128, 128, 3)
```

Assigining Labels

```
In [ ]: num_of_samples = img_data.shape[0]
    labels = np.ones((num_of_samples,),dtype='int64')

    labels[0:1582]=0
    labels[1583:5856]=1

    names = ['normal','pneumonia']
```

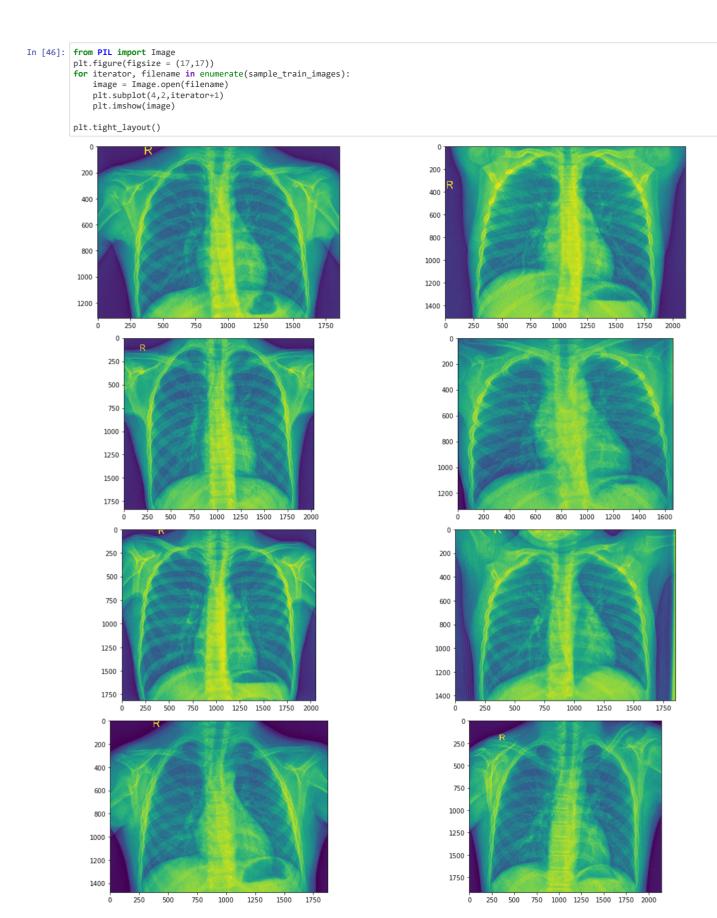
View Images

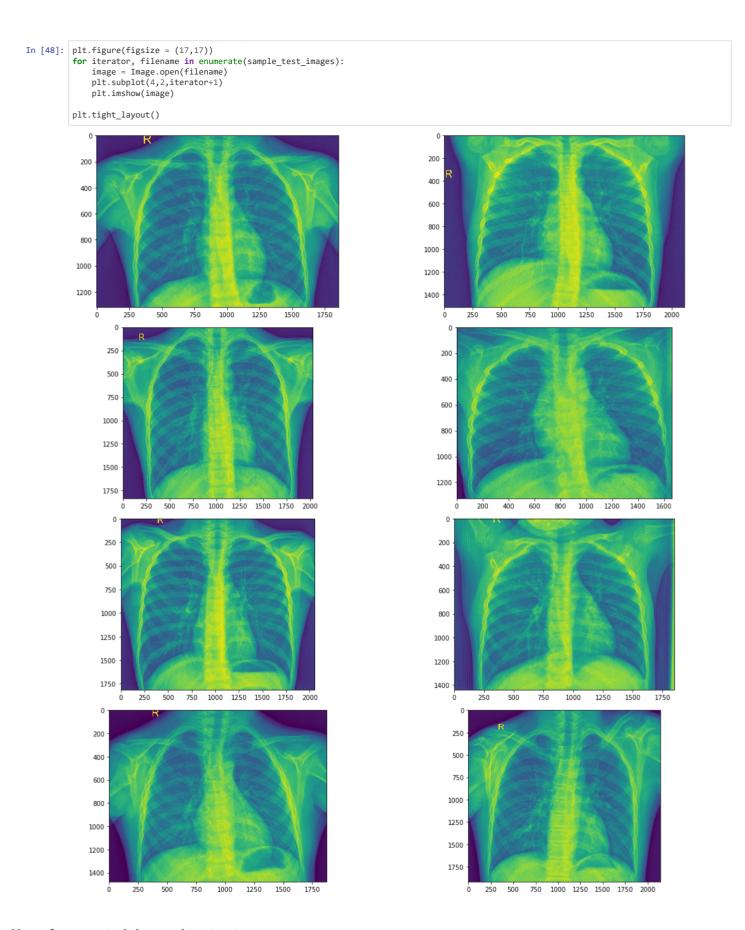
```
In [77]: assert os.path.isdir(test_img_dir) == True
    assert os.path.isdir(train_img_dir) == True

sample_train_images = list(os.walk(train_img_dir))[0][2][:8]
    sample_train_images = list(map(lambda x: os.path.join(train_img_dir, x), sample_train_images))

sample_test_images = list(os.walk(test_img_dir))[0][2][:8]
    sample_test_images = list(map(lambda x: os.path.join(test_img_dir, x), sample_test_images))
```

View images from Train





Use of proper training and test set

```
In [8]: # Drop all unwanted columns
        # covid19 = covid19.drop('Episode Date',axis = 1)
        # covid19 = covid19.drop('Reported Date', axis = 1)
        # Create empty data frame
        covid19_updated = pd.DataFrame()
        # Apply Label Binarizer
        lb = LabelBinarizer()
        covid19['Outbreak Associated']= lb.fit transform(covid19['Outbreak Associated'])
        covid19_updated = pd.concat([covid19_updated, covid19['Outbreak Associated']], axis=1)
        dummies1 = pd.get_dummies(covid19["Age Group"], prefix='Age_Group')
        covid19_updated = pd.concat([covid19_updated, dummies1], axis=1)
        dummies2 = pd.get_dummies(covid19["Neighbourhood Name"], prefix='Neighbourhood_Name')
        covid19_updated = pd.concat([covid19_updated, dummies2], axis=1)
        fsa_dummies = pd.get_dummies(covid19.FSA, prefix='FSA')
        covid19_updated = pd.concat([covid19_updated, fsa_dummies], axis=1)
        dummies3 = pd.get_dummies(covid19["Source of Infection"], prefix='Source_of_Infection')
        covid19_updated = pd.concat([covid19_updated, dummies3], axis=1)
        covid19['Classification'] = lb.fit_transform(covid19['Classification'])
        covid19_updated = pd.concat([covid19_updated, covid19['Classification']], axis=1)
        dummies4 = pd.get_dummies(covid19["Client Gender"], prefix='Client_Gender')
        covid19_updated = pd.concat([covid19_updated, dummies4], axis=1)
        covid19['Currently Hospitalized']= lb.fit transform(covid19['Currently Hospitalized'])
        covid19_updated = pd.concat([covid19_updated, covid19['Currently Hospitalized']], axis=1)
        covid19['Currently in ICU']= lb.fit_transform(covid19['Currently in ICU'])
        covid19_updated = pd.concat([covid19_updated, covid19['Currently in ICU']], axis=1)
        covid19['Currently Intubated']= lb.fit_transform(covid19['Currently Intubated'])
        covid19_updated = pd.concat([covid19_updated, covid19['Currently Intubated']], axis=1)
        covid19['Ever Hospitalized']= lb.fit_transform(covid19['Ever Hospitalized'])
        covid19_updated = pd.concat([covid19_updated, covid19['Ever Hospitalized']], axis=1)
        covid19['Ever in ICU']= lb.fit_transform(covid19['Ever in ICU'])
        covid19_updated = pd.concat([covid19_updated, covid19['Ever in ICU']], axis=1)
        covid19['Ever Intubated']= lb.fit_transform(covid19['Ever Intubated'])
        covid19_updated = pd.concat([covid19_updated, covid19['Ever Intubated']], axis=1)
        covid19_updated = pd.concat([covid19_updated, covid19['Outcome']], axis=1)
        covid19_updated.Outcome = pd.factorize(covid19_updated.Outcome)[0]
        covid19_updated.head()
        # covid19_updated.to_csv("drive/My Drive/Final_Project/out.csv")
```

Out[8]:

	Outbreak Associated	Age_Group_19 and younger	Age_Group_20- 29	Age_Group_30- 39	Age_Group_40- 49	Age_Group_50- 59	Age_Group_60- 69	Age_Group_70- 79	Age_Group_80- 89	Age_Group_90+	
0	1	0	0	0	0	1	0	0	0	0	
1	1	0	1	0	0	0	0	0	0	0	
2	1	0	0	0	0	0	1	0	0	0	
3	0	0	0	0	0	1	0	0	0	0	
4	1	0	0	1	0	0	0	0	0	0	

5 rows × 267 columns

```
In [9]: dataset = covid19_updated.values

X = dataset[:,0:261]
Y = dataset[:,261]

min_max_scaler = preprocessing.MinMaxScaler()
X_scale = min_max_scaler.fit_transform(X)

X_train, X_val_and_test, Y_train, Y_val_and_test = train_test_split(X_scale, Y, test_size=0.3)
X_val, X_test, Y_val, Y_test = train_test_split(X_val_and_test, Y_val_and_test, test_size=0.5)
print(X_train.shape, X_val.shape, X_test.shape, Y_train.shape, Y_val.shape, Y_test.shape)
```

(10283, 261) (2204, 261) (2204, 261) (10283,) (2204,) (2204,)

```
185/322 [=========>: 0.0056 - accuracy: 1.00 - ETA: 29s - loss: 0.0056 - accuracy: 1.00 - ETA: 29s - loss: 0.0056 - accuracy: 1.000 - ETA:
  36s - loss: 0.0055 - accuracy: 1.000 - ETA: 1:00 - loss: 0.0055 - accuracy: 1.00 - ETA: 1:02 - loss: 0.0408 - accuracy: 0.99 - ETA: 1:
02 - loss: 0.0349 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0561 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0499 - accuracy: 0.99 - ETA: 58s - loss: 0.0453 - accuracy: 0.9931 - ETA: 58s - loss: 0.0416 - accuracy: 0.993 - ETA: 1:01 - loss: 0.0385 - accuracy: 0.999 - ETA: 1:02
  - loss: 0.0360 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0338 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0433 - accuracy: 0.99 - ETA: 59s - 1
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- loss: 0.0180 - accuracy: 0.997 - ETA: 12s - loss: 0.0179 - accuracy: 0.997 - ETA: 12s - loss: 0.0179 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - accuracy: 0.997 - ET
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ss: 0.0177 - accuracy: 0.997 - ETA: 11s - loss: 0.0176 - accuracy: 0.997 - ETA: 11s - loss: 0.0176 - accuracy: 0.997 - ETA: 10s - loss: 0.0175 - accuracy: 0.997 - ETA: 10s - loss: 0.0182 - accuracy: 0.997 - ETA: 10s - loss: 0.0181 - accuracy: 0.997 - ETA: 9s - loss: 0.0181 - accuracy: 0.997 - ETA: 9s - loss: 0.0180 - accuracy: 0.99 - ETA: 9s - loss: 0.0180 - accuracy: 0.99 - ETA: 9s - loss: 0.0179 - accuracy: 0.99 - ETA: 9s - loss: 0.0179 - accuracy: 0.99 - ETA: 8s - loss: 0.0178 - accura cy: 0.99 - ETA: 8s - loss: 0.0178 - accuracy: 0.99 - ETA: 8s - loss: 0.0184 - accuracy: 0.99 - ETA: 8s - loss: 0.0184 - accuracy: 0.99 - ETA: 7s - loss: 0.0183 - accuracy: 0.99 - ETA: 7s - loss: 0.0183 - accuracy: 0.99 - ETA: 7s - loss: 0.0182 - accuracy: 0.99 - ETA: 7 s - loss: 0.0188 - accuracy: 0.99 - ETA: 6s - loss: 0.0194 - accuracy: 0.99 - ETA: 6s - loss: 0.0194 - accuracy: 0.99 - ETA: 6s - loss s: 0.0193 - accuracy: 0.99 - ETA: 6s - loss: 0.0193 - accuracy: 0.99 - ETA: 5s - loss: 0.0198 - accuracy: 0.99 - ETA: 5s - loss: 0.019 7 - accuracy: 0.99 - ETA: 5s - loss: 0.0197 - accuracy: 0.99 - ETA: 5s - loss: 0.0197 - accuracy: 0.99 - ETA: 5s - loss: 0.0196 - accu racy: 0.99 - ETA: 4s - loss: 0.0196 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0200 - accuracy: 0. 99 - ETA: 4s - loss: 0.0200 - accuracy: 0.99 - ETA: 3s - loss: 0.0200 - accuracy: 0.90 A: 3s - loss: 0.0199 - accuracy: 0.99 - ETA: 3s - loss: 0.0199 - accuracy: 0.99 - ETA: 2s - loss: 0.0199 - accuracy: 0.99 - ETA: 2s loss: 0.0198 - accuracy: 0.99 - ETA: 2s - loss: 0.0198 - accuracy: 0.99 - ETA: 2s - loss: 0.0198 - accuracy: 0.99 - ETA: 1s - loss: 0. 0197 - accuracy: 0.99 - ETA: 1s - loss: 0.0197 - accuracy: 0.99 - ETA: 1s - loss: 0.0202 - accuracy: 0.99 - ETA: 1s - loss: 0.0202 - a ccuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - 84s 262ms/step - loss: 0.0200 - accuracy: 0.9975 - val_loss: 0.0234 - val_accuracy: 0.9968

Epoch 2/50 186/322 [=========>>.....] - ETA: 0s - loss: 0.0054 - accuracy: 1.00 - ETA: 34s - loss: 0.0053 - accuracy: 1.000 - ETA: 49s - loss: 0.0052 - accuracy: 1.000 - ETA: 54s - loss: 0.0050 - accuracy: 1.000 - ETA: 57s - loss: 0.0049 - accuracy: 1.000 - ETA: 1: 12 - loss: 0.0047 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0046 - accuracy: 1.00 - ETA: 1:19 - loss: 0.0299 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:27 - loss: 0.0248 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0229 - accuracy: 0.99 - ETA: 1:22 loss: 0.0214 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0201 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0190 - accuracy: 0.99 - ETA: 1:16 - lo ss: 0.0181 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0172 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0268 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0246 - accuracy: 0.0237 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:17 - loss: 0.01 95 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0189 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0184 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0180 - accuracy: 0.99 - ETA: 1:29 - loss: 0.0175 - accuracy: 0.99 - ETA: 1:29 - loss: 0.0171 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0167 accuracy: 0.99 - ETA: 1:27 - loss: 0.0163 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0160 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0156 - ac curacy: 0.99 - ETA: 1:29 - loss: 0.0153 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0150 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0147 - accu racy: 0.99 - ETA: 1:36 - loss: 0.0144 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0142 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0139 - accura cy: 0.99 - ETA: 1:38 - loss: 0.0136 - accuracy: 0.99 - ETA: 1:38 - loss: 0.0134 - accuracy: 0.99 - ETA: 1:38 - loss: 0.0132 - accurac y: 0.99 - ETA: 1:40 - loss: 0.0130 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0128 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0126 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0164 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0162 - accuracy: 0.99 - ETA: 1:38 - loss: 0.0159 - accuracy: 0. 99 - ETA: 1:38 - loss: 0.0157 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0155 - accuracy: 0.99 - ETA: 1:36 - loss: 0.0152 - accuracy: 0.99 - ETA: 1:41 - loss: 0.0150 - accuracy: 0.99 - ETA: 1:41 - loss: 0.0148 - accuracy: 0.99 - ETA: 1:41 - loss: 0.0146 - accuracy: 0.99 -ETA: 1:44 - loss: 0.0145 - accuracy: 0.99 - ETA: 1:43 - loss: 0.0178 - accuracy: 0.99 - ETA: 1:42 - loss: 0.0176 - accuracy: 0.99 - ETA A: 1:41 - loss: 0.0173 - accuracy: 0.99 - ETA: 1:41 - loss: 0.0171 - accuracy: 0.99 - ETA: 1:41 - loss: 0.0169 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0167 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0165 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0191 - accuracy: 0.99 - ETA: 1: 39 - loss: 0.0189 - accuracy: 0.99 - ETA: 1:38 - loss: 0.0187 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0185 - accuracy: 0.99 - ETA: 1:36 - loss: 0.0183 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0181 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0179 - accuracy: 0.99 - ETA: 1:34 loss: 0.0178 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0176 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0174 - accuracy: 0.99 - ETA: 1:33 - lo ss: 0.0173 - accuracy: 0.99 - ETA: 1:33 - loss: 0.0171 - accuracy: 0.99 - ETA: 1:32 - loss: 0.0170 - accuracy: 0.99 - ETA: 1:31 - los s: 0.0168 - accuracy: 0.99 - ETA: 1:31 - loss: 0.0166 - accuracy: 0.99 - ETA: 1:30 - loss: 0.0165 - accuracy: 0.99 - ETA: 1:30 - loss: 0.0163 - accuracy: 0.99 - ETA: 1:30 - loss: 0.0183 - accuracy: 0.99 - ETA: 1:29 - loss: 0.0181 - accuracy: 0.99 - ETA: 1:29 - loss: 0. 0180 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0178 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0177 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0192 accuracy: 0.99 - ETA: 1:28 - loss: 0.0190 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0208 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0208 - accuracy: 0.99 - ETA: 1:27 - loss: 0.0236 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0223 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0236 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0236 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0236 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0236 - accuracy: 0.99 - ETA: 0.0236 - accurac curacy: 0.99 - ETA: 1:27 - loss: 0.0234 - accuracy: 0.99 - ETA: 1:26 - loss: 0.0233 - accuracy: 0.99 - ETA: 1:27 - loss: 0.0232 - accu racy: 0.99 - ETA: 1:26 - loss: 0.0231 - accuracy: 0.99 - ETA: 1:26 - loss: 0.0230 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0229 - accura y: 0.99 - ETA: 1:24 - loss: 0.0224 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0224 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:26 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:26 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:26 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:27 - 0.99 - ETA: 1:23 - loss: 0.0220 - accuracy: 0.99 - ETA: 1:22 - loss: 0.0219 - accuracy: 0.99 - ETA: 1:22 - loss: 0.0217 - accuracy: 0. 99 - ETA: 1:22 - loss: 0.0216 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0230 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0229 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0241 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0254 - accuracy: 0.99 -ETA: 1:21 - loss: 0.0253 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0252 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0263 - accuracy: 0.99 - ETA A: 1:19 - loss: 0.0262 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0261 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0260 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0271 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0269 - accuracy: 0.99 - ETA: 1: 16 - loss: 0.0268 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0265 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0275 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0273 - accuracy: 0.99 - ETA: 1:13 loss: 0.0272 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0271 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0281 - accuracy: 0.99 - ETA: 1:11 - lo ss: 0.0280 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0278 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:10 - los s: 0.0276 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0275 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0273 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0272 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0271 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0269 - accuracy: 0.99 - ETA: 1:06 - loss: 0. 0268 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0265 - accuracy: 0.99 - ETA: 1:05 - loss: 0.02 64 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0262 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0261 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0260 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0258 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0268 accuracy: 0.99 - ETA: 1:02 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0265 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0264 - ac curacy: 0.99 - ETA: 1:01 - loss: 0.0262 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0261 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0260 - accu racy: 0.99 - ETA: 1:00 - loss: 0.0270 - accuracy: 0.99 - ETA: 59s - loss: 0.0268 - accuracy: 0.9964 - ETA: 59s - loss: 0.0267 - accura cy: 0.996 - ETA: 58s - loss: 0.0266 - accuracy: 0.996 - ETA: 58s - loss: 0.0264 - accuracy: 0.996 - ETA: 58s - loss: 0.0263 - accurac y: 0.996 - ETA: 57s - loss: 0.0262 - accuracy: 0.996 - ETA: 57s - loss: 0.0261 - accuracy: 0.996 - ETA: 57s - loss: 0.0259 - accuracy: 0.996 - ETA: 56s - loss: 0.0258 - accuracy: 0.996 - ETA: 55s - loss: 0.0257 - accuracy: 0.996 - ETA: 55s - loss: 0.0256 - accuracy: 0. 996 - ETA: 55s - loss: 0.0254 - accuracy: 0.996 - ETA: 54s - loss: 0.0265 - accuracy: 0.996 - ETA: 54s - loss: 0.0263 - accuracy: 0.996 - ETA: 53s - loss: 0.0262 - accuracy: 0.996 - ETA: 53s - loss: 0.0260 - accuracy: 0.996 - ETA: 52s - loss: 0.0259 - accuracy: 0.996 - ETA: 52s - loss: 0.0258 - accuracy: 0.996 - ETA: 51s - loss: 0.0266 - accuracy: 0.996 -ETA: 51s - loss: 0.0265 - accuracy: 0.996 - ETA: 50s - loss: 0.0264 - accuracy: 0.996 - ETA: 50s - loss: 0.0263 - accuracy: 0.996 - ETA s - loss: 0.0260 - accuracy: 0.996 - ETA: 48s - loss: 0.0259 - accuracy: 0.996 - ETA: 48s - loss: 0.0258 - accuracy: 0.996 - ETA: 47s - loss: 0.0257 - accuracy: 0.996 - ETA: 475 - loss: 0.0256 - accuracy: 0.996 - ETA: 465 - loss: 0.0255 - accuracy: 0.996 - ETA: 465 loss: 0.0254 - accuracy: 0.996 - ETA: 46s - loss: 0.0253 - accuracy: 0.996 - ETA: 45s - loss: 0.0251 - accuracy: 0.996 - ETA: 45s - lo ss: 0.0250 - accuracy: 0.996 - ETA: 45s - loss: 0.0249 - accuracy: 0.996 - ETA: 44s - loss: 0.0248 - accuracy: 0.996 - ETA: 44s - los s: 0.0247 - accuracy: 0.996 - ETA: 43s - loss: 0.0246 - accuracy: 0.996 - ETA: 43s - loss: 0.0245 - accuracy: 0.996 - ETA: 43s - loss: 0.0244 - accuracy: 0.996 - ETA: 42s - loss: 0.0243 - accuracy: 0.996 - ETA: 42s - loss: 0.0242 - accuracy: 0.996 - ETA: 41s - loss: 0. 0241 - accuracy: 0.996 - ETA: 41s - loss: 0.0240 - accuracy: 0.996 - ETA: 40s - loss: 0.0239 - accuracy: 0.996 - ETA: 40s - loss: 0.02 38 - accuracy: 0.996 - ETA: 40s - loss: 0.0237 - accuracy: 0.996 - ETA: 39s - loss: 0.0236 - accuracy: 0.996 - ETA: 39s - loss: 0.0235 - accuracy: 0.996 - ETA: 38s - loss: 0.0234 - accuracy: 0.996 - ETA: 38s - loss: 0.0233 - accuracy: 0.996 - ETA: 38s - loss: 0.0232 accuracy: 0.996 - ETA: 37s - loss: 0.0232 - accuracy: 0.997 - ETA: 37s - loss: 0.0239 - accuracy: 0.997 - ETA: 36s - loss: 0.0229 - accuracy: 0.997 - ETA: 0.0229 - accuracy: 0.997 - ETA: 0.0229 - accuracy: 0.997 - ETA: 0.0229 - accuracy: 0.99 racy: 0.997 - ETA: 35s - loss: 0.0226 - accuracy: 0.997 - ETA: 35s - loss: 0.0225 - accuracy: 0.997 - ETA: 34s - loss: 0.0224 - accuracy: 0.997 - ETA: 34s - loss: 0.0233 - accuracy: 0.996 - ETA: 33s - loss: 0.0232 - accuracy: 0.997 - ETA: 33s - loss: 0.0231 - accuracy y: 0.997 - ETA: 33s - loss: 0.0230 - accuracy: 0.997 - ETA: 32s - loss: 0.0229 - accuracy: 0.997 - ETA: 32s - loss: 0.0229 - accuracy: 0.997 - ETA: 31s - loss: 0.0237 - accuracy: 0.996 - ETA: 31s - loss: 0.0236 - accuracy: 0.996 - ETA: 31s - loss: 0.0235 - accuracy: 0. 996 - ETA: 30s - loss: 0.0235 - accuracy: 0.996 - ETA: 30s - loss: 0.0234 - accuracy: 0.996 - ETA: 29s - loss: 0.0241 - accuracy: 0.99 6 - ETA: 29s - loss: 0.0240 - accuracy: 0.996 - ETA: 29s - loss: 0.0240 - accuracy: 0.996 - ETA: 28s - loss: 0.0239 - accuracy: 0.996 - ETA: 28s - loss: 0.0238 - accuracy: 0.996 - ETA: 27s - loss: 0.0237 - accuracy: 0.996 - ETA: 27s - loss: 0.0237 - accuracy: 0.996 -ETA: 27s - loss: 0.0236 - accuracy: 0.996 - ETA: 26s - loss: 0.0235 - accuracy: 0.996 - ETA: 26s - loss: 0.0234 - accuracy: 0.996 - ETA A: 26s - loss: 0.0234 - accuracy: 0.997 - ETA: 25s - loss: 0.0233 - accuracy: 0.997 - ETA: 25s - loss: 0.0232 - accuracy: 0.997 - ETA: 25s - loss: 0.0231 - accuracy: 0.997 - ETA: 24s - loss: 0.0231 - accuracy: 0.997 - ETA: 24s - loss: 0.0230 - accuracy: 0.997 - ETA: 23 s - loss: 0.0229 - accuracy: 0.997 - ETA: 23s - loss: 0.0229 - accuracy: 0.997 - ETA: 23s - loss: 0.0228 - accuracy: 0.997 - ETA: 22s - loss: 0.0227 - accuracy: 0.997 - ETA: 22s - loss: 0.0226 - accuracy: 0.997 - ETA: 22s - loss: 0.0226 - accuracy: 0.997 - ETA: 21s loss: 0.0225 - accuracy: 0.997 - ETA: 21s - loss: 0.0224 - accuracy: 0.997 - ETA: 20s - loss: 0.0224 - accuracy: 0.997 - ETA: 20s - lo ss: 0.0223 - accuracy: 0.997 - ETA: 20s - loss: 0.0222 - accuracy: 0.997 - ETA: 19s - loss: 0.0221 - accuracy: 0.997 - ETA: 19s - los s: 0.0228 - accuracy: 0.997 - ETA: 19s - loss: 0.0227 - accuracy: 0.997 - ETA: 18s - loss: 0.0227 - accuracy: 0.997 - ETA: 18s - loss: 0.0226 - accuracy: 0.997 - ETA: 18s - loss: 0.0233 - accuracy: 0.997 - ETA: 17s - loss: 0.0232 - accuracy: 0.997 - ETA: 17s - loss: 0. 0231 - accuracy: 0.997 - ETA: 17s - loss: 0.0231 - accuracy: 0.997 - ETA: 16s - loss: 0.0230 - accuracy: 0.997 - ETA: 16s - loss: 0.02 30 - accuracy: 0.997 - ETA: 15s - loss: 0.0229 - accuracy: 0.997 - ETA: 15s - loss: 0.0228 - accuracy: 0.997 - ETA: 15s - loss: 0.0228 - accuracy: 0.997 - ETA: 14s - loss: 0.0227 - accuracy: 0.997 - ETA: 14s - loss: 0.0226 - accuracy: 0.997 - ETA: 14s - loss: 0.0226 accuracy: 0.997 - ETA: 13s - loss: 0.0225 - accuracy: 0.997 - ETA: 13s - loss: 0.0224 - accuracy: 0.997 - ETA: 0 curacy: 0.997 - ETA: 12s - loss: 0.0223 - accuracy: 0.997 - ETA: 12s - loss: 0.0223 - accuracy: 0.997 - ETA: 12s - loss: 0.0222 - accu racy: 0.997 - ETA: 11s - loss: 0.0221 - accuracy: 0.997 - ETA: 11s - loss: 0.0221 - accuracy: 0.997 - ETA: 11s - loss: 0.0220 - accura cy: 0.997 - ETA: 10s - loss: 0.0219 - accuracy: 0.997 - ETA: 10s - loss: 0.0219 - accuracy: 0.997 - ETA: 10s - loss: 0.0218 - accuracy 9: 0.997 - ETA: 9s - loss: 0.0218 - accuracy: 0.997 - ETA: 8s - loss: 0.0217 - accuracy: 0.99 - ETA: 9s - loss: 0.0216 - accuracy: 0.99 - ETA: 8s - loss: 0.0216 - accuracy: 0.99 - accuracy: 0.99 - a 7s - loss: 0.0214 - accuracy: 0.99 - ETA: 7s - loss: 0.0213 - accuracy: 0.99 - ETA: 7s - loss: 0.0213 - accuracy: 0.99 - ETA: 6s - los s: 0.0212 - accuracy: 0.99 - ETA: 6s - loss: 0.0211 - accuracy: 0.99 - ETA: 6s - loss: 0.0211 - accuracy: 0.99 - ETA: 5s - loss: 0.021 0 - accuracy: 0.99 - ETA: 5s - loss: 0.0210 - accuracy: 0.99 - ETA: 5s - loss: 0.0209 - accuracy: 0.99 - ETA: 4s - loss: 0.0208 - accu racy: 0.99 - ETA: 4s - loss: 0.0208 - accuracy: 0.99 - ETA: 4s - loss: 0.0207 - accuracy: 0.99 - ETA: 3s - loss: 0.0207 - accuracy: 0. 99 - ETA: 3s - loss: 0.0206 - accuracy: 0.99 - ETA: 3s - loss: 0.0206 - accuracy: 0.99 - ETA: 2s - loss: 0.0205 - accuracy: 0.99 - ET A: 2s - loss: 0.0204 - accuracy: 0.99 - ETA: 2s - loss: 0.0204 - accuracy: 0.99 - ETA: 1s - loss: 0.0203 - accuracy: 0.99 - ETA: 1s loss: 0.0203 - accuracy: 0.99 - ETA: 1s - loss: 0.0202 - accuracy: 0.99 - ETA: 0s - loss: 0.0202 - accuracy: 0.99 - ETA: 0s - loss: 0. 0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - 107s 333ms/step - loss: 0. 0200 - accuracy: 0.9975 - val loss: 0.0255 - val accuracy: 0.9968 Epoch 3/50

94/322 [======>......] - ETA: 0s - loss: 0.0027 - accuracy: 1.00 - ETA: 41s - loss: 0.0027 - accuracy: 1.000 - ETA: 57s - loss: 0.0757 - accuracy: 0.989 - ETA: 57s - loss: 0.0575 - accuracy: 0.992 - ETA: 54s - loss: 0.0467 - accuracy: 0.993 - ETA: 53 s - loss: 0.0395 - accuracy: 0.994 - ETA: 1:00 - loss: 0.0345 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0306 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0500 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0454 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0595 - accuracy: 0.99 - ETA: 1:00 loss: 0.0551 - accuracy: 0.99 - ETA: 58s - loss: 0.0515 - accuracy: 0.9928 - ETA: 56s - loss: 0.0484 - accuracy: 0.993 - ETA: 57s - lo ss: 0.0456 - accuracy: 0.993 - ETA: 1:06 - loss: 0.0432 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0410 - accuracy: 0.99 - ETA: 1:05 - los s: 0.0391 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0373 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0357 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0343 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0330 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0318 - accuracy: 0.99 - ETA: 1:02 - loss: 0. 0307 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0297 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0288 - accuracy: 0.99 - ETA: 1:00 - loss: 0.02 79 - accuracy: 0.99 - ETA: 59s - loss: 0.0271 - accuracy: 0.9967 - ETA: 58s - loss: 0.0264 - accuracy: 0.996 - ETA: 57s - loss: 0.0256 - accuracy: 0.996 - ETA: 57s - loss: 0.0250 - accuracy: 0.997 - ETA: 57s - loss: 0.0243 - accuracy: 0.997 - ETA: 56s - loss: 0.0237 accuracy: 0.997 - ETA: 55s - loss: 0.0231 - accuracy: 0.997 - ETA: 55s - loss: 0.0226 - accuracy: 0.997 - ETA: 54s - loss: 0.0221 - ac curacy: 0.997 - ETA: 53s - loss: 0.0216 - accuracy: 0.997 - ETA: 53s - loss: 0.0211 - accuracy: 0.997 - ETA: 52s - loss: 0.0207 - accu racy: 0.997 - ETA: 53s - loss: 0.0202 - accuracy: 0.997 - ETA: 55s - loss: 0.0198 - accuracy: 0.997 - ETA: 54s - loss: 0.0194 - accuracy: 0.997 - ETA: 54s - loss: 0.0191 - accuracy: 0.997 - ETA: 54s - loss: 0.0184 - accuracy: 0.997 - ETA: 54s y: 0.997 - ETA: 54s - loss: 0.0180 - accuracy: 0.998 - ETA: 54s - loss: 0.0177 - accuracy: 0.998 - ETA: 55s - loss: 0.0174 - accuracy: 0.998 - ETA: 56s - loss: 0.0171 - accuracy: 0.998 - ETA: 58s - loss: 0.0168 - accuracy: 0.998 - ETA: 59s - loss: 0.0165 - accuracy: 0. 998 - ETA: 59s - loss: 0.0163 - accuracy: 0.998 - ETA: 59s - loss: 0.0160 - accuracy: 0.998 - ETA: 58s - loss: 0.0158 - accuracy: 0.99 8 - ETA: 58s - loss: 0.0155 - accuracy: 0.998 - ETA: 1:00 - loss: 0.0153 - accuracy: 0.99 - ETA: 59s - loss: 0.0151 - accuracy: 0.9984 - ETA: 59s - loss: 0.0149 - accuracy: 0.998 - ETA: 59s - loss: 0.0147 - accuracy: 0.998 - ETA: 59s - loss: 0.0145 - accuracy: 0.998 - ETA: 1:00 - loss: 0.0179 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0179 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0174 - accuracy: 0.99 - ETA: 1:00 - loss: 0. A: 59s - loss: 0.0172 - accuracy: 0.9980 - ETA: 59s - loss: 0.0170 - accuracy: 0.998 - ETA: 59s - loss: 0.0168 - accuracy: 0.998 - ET A: 59s - loss: 0.0166 - accuracy: 0.998 - ETA: 58s - loss: 0.0164 - accuracy: 0.998 - ETA: 58s - loss: 0.0163 - accuracy: 0.998 - ETA: 57s - loss: 0.0161 - accuracy: 0.998 - ETA: 57s - loss: 0.0159 - accuracy: 0.998 - ETA: 56s - loss: 0.0187 - accuracy: 0.997 - ETA: 56 s - loss: 0.0185 - accuracy: 0.997 - ETA: 56s - loss: 0.0183 - accuracy: 0.997 - ETA: 56s - loss: 0.0181 - accuracy: 0.997 - ETA: 56s - loss: 0.0179 - accuracy: 0.997 - ETA: 56s - loss: 0.0177 - accuracy: 0.998 - ETA: 55s - loss: 0.0176 - accuracy: 0.998 - ETA: 54s loss: 0.0174 - accuracy: 0.998 - ETA: 54s - loss: 0.0172 - accuracy: 0.998 - ETA: 54s - loss: 0.0171 - accuracy: 0.998 - ETA: 53s - lo ss: 0.0169 - accuracy: 0.998 - ETA: 53s - loss: 0.0168 - accuracy: 0.998 - ETA: 53s - loss: 0.0166 - accuracy: 0.998 - ETA: 53s - loss s: 0.0165 - accuracy: 0.998 - ETA: 53s - loss: 0.0163 - accuracy: 0.998 - ETA: 53s - loss: 0.0162 - accuracy: 0.998 - ETA: 53s - loss: 0.0160 - accuracy: 0.998 - ETA: 52s - loss: 0.0159 - accuracy: 0.998 - ETA: 52s - loss: 0.0158 - accuracy: 0.998 - ETA: 52s - loss: 0. 0156 - accuracy: 0.998 - ETA: 51s - loss: 0.0155 - accuracy: 0.998 - ETA: 51s - loss: 0.0154 - accuracy: 0.998 - ETA: 51s - loss: 0.01 73 - accuracy: 0.998 - ETA: 50s - loss: 0.0172 - accuracy: 0.998 - ETA: 50s - loss: 0.0171 - accuracy: 0.998 - ETA: 50s - loss: 0.0169 - accuracy: 0.998 - ETA: 49s - loss: 0.0168 - accuracy: 0.9 - ETA: 1:08 - loss: 0.0122 - accuracy: 1.00 - ETA: 1:05 - loss: 0.0122 - a ccuracy: 1.00 - ETA: 1:09 - loss: 0.0121 - accuracy: 1.00 - ETA: 1:12 - loss: 0.0279 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0263 - acc uracy: 0.99 - ETA: 1:11 - loss: 0.0250 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0238 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0227 - accur acy: 0.99 - ETA: 1:12 - loss: 0.0218 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0202 - accuracy 9: 0.99 - ETA: 1:18 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0281 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0271 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0271 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0261 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0253 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0245 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0261 - accuracy: 0.99 - ETA: 0.9 99 - ETA: 1:14 - loss: 0.0238 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0231 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0224 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0218 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0207 - accuracy: 0.99 -ETA: 1:08 - loss: 0.0202 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0192 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0238 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0284 - accuracy: 0.99 - ETA: 0.0284 - accuracy: 1:07 - loss: 0.0278 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0319 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0307 - - loss: 0.0291 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0286 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0281 - accuracy: 0.99 - ETA: 1:04 loss: 0.0276 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0272 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0268 - accuracy: 0.99 - ETA: 1:03 - lo ss: 0.0264 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0260 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0256 - accuracy: 0.99 - ETA: 1:02 - loss s: 0.0252 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0283 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0279 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0275 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0271 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:01 - loss: 0. 0294 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0290 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0287 - accuracy: 0.99 - ETA: 1:01 - loss: 0.02 83 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0280 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0273 - accuracy: 0.99 - ETA: 59s - loss: 0.0270 - accuracy: 0.9966 - ETA: 59s - loss: 0.0266 - accuracy: 0.996 - ETA: 59s - loss: 0.0263 accuracy: 0.996 - ETA: 59s - loss: 0.0260 - accuracy: 0.996 - ETA: 59s - loss: 0.0257 - accuracy: 0.996 - ETA: 58s - loss: 0.0254 - ac curacy: 0.996 - ETA: 58s - loss: 0.0251 - accuracy: 0.996 - ETA: 57s - loss: 0.0248 - accuracy: 0.996 - ETA: 57s - loss: 0.0246 - accu racy: 0.997 - ETA: 57s - loss: 0.0243 - accuracy: 0.997 - ETA: 56s - loss: 0.0240 - accuracy: 0.997 - ETA: 56s - loss: 0.0237 - accuracy: 0.997 - ETA: 55s - loss: 0.0237 - accuracy: 0.997 - ETA: 56s - loss: 0.0237 - accuracy: 0.997 - ETA: 54s - loss: 0.0230 - accuracy: 0.997 - ETA: 54s - accuracy: 0.997 - ETA: 54s - accuracy: 0. y: 0.997 - ETA: 54s - loss: 0.0227 - accuracy: 0.997 - ETA: 54s - loss: 0.0225 - accuracy: 0.997 - ETA: 54s - loss: 0.0223 - accuracy: 0.997 - ETA: 54s - loss: 0.0220 - accuracy: 0.997 - ETA: 54s - loss: 0.0218 - accuracy: 0.997 - ETA: 53s - loss: 0.0216 - accuracy: 0.997 - ETA: 54s - 997 - ETA: 53s - loss: 0.0214 - accuracy: 0.997 - ETA: 54s - loss: 0.0211 - accuracy: 0.997 - ETA: 54s - loss: 0.0209 - accuracy: 0.997 - ETA: 53s - loss: 0.0207 - accuracy: 0.997 - ETA: 53s - loss: 0.0207 - accuracy: 0.997 - ETA: 53s - loss: 0.0201 - accuracy: 0.997 - ETA: 53s - loss: 0.0200 - accuracy: 0.997 - ETA: 53s - loss: 0.0198 - accuracy: 0.997 -s - loss: 0.0188 - accuracy: 0.997 - ETA: 51s - loss: 0.0186 - accuracy: 0.997 - ETA: 51s - loss: 0.0184 - accuracy: 0.997 - ETA: 50s - loss: 0.0183 - accuracy: 0.997 - ETA: 51s - loss: 0.0181 - accuracy: 0.997 - ETA: 50s - loss: 0.0201 - accuracy: 0.997 - ETA: 50s loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0198 - accuracy: 0.997 - ETA: 49s - loss: 0.0196 - accuracy: 0.997 - ETA: 49s - lo ss: 0.0195 - accuracy: 0.997 - ETA: 49s - loss: 0.0193 - accuracy: 0.997 - ETA: 48s - loss: 0.0192 - accuracy: 0.997 - ETA: 49s - los s: 0.0190 - accuracy: 0.997 - ETA: 48s - loss: 0.0189 - accuracy: 0.997 - ETA: 48s - loss: 0.0187 - accuracy: 0.997 - ETA: 48s - loss: 0.0186 - accuracy: 0.997 - ETA: 48s - loss: 0.0185 - accuracy: 0.997 - ETA: 48s - loss: 0.0183 - accuracy: 0.997 - ETA: 49s - loss: 0. 0182 - accuracy: 0.997 - ETA: 49s - loss: 0.0181 - accuracy: 0.997 - ETA: 49s - loss: 0.0180 - accuracy: 0.997 - ETA: 49s - loss: 0.01 78 - accuracy: 0.997 - ETA: 49s - loss: 0.0177 - accuracy: 0.997 - ETA: 50s - loss: 0.0176 - accuracy: 0.998 - ETA: 51s - loss: 0.0175 - accuracy: 0.998 - ETA: 52s - loss: 0.0174 - accuracy: 0.998 - ETA: 51s - loss: 0.0172 - accuracy: 0.998 - ETA: 52s - loss: 0.0171 accuracy: 0.998 - ETA: 52s - loss: 0.0170 - accuracy: 0.998 - ETA: 51s - loss: 0.0169 - accuracy: 0.998 - ETA: 51s - loss: 0.0168 - accuracy: 0.998 - ETA: 51s - loss: 0.0168 - accuracy: 0.998 - ETA: 51s - loss: 0.0169 - accuracy: 0.998 - accuracy: 0.998 - accuracy: 0.998 - accuracy: 0. curacy: 0.998 - ETA: 51s - loss: 0.0167 - accuracy: 0.998 - ETA: 51s - loss: 0.0166 - accuracy: 0.998 - ETA: 50s - loss: 0.0165 - accu racy: 0.998 - ETA: 50s - loss: 0.0164 - accuracy: 0.998 - ETA: 50s - loss: 0.0163 - accuracy: 0.998 - ETA: 50s - loss: 0.0162 - accura cy: 0.998 - ETA: 50s - loss: 0.0161 - accuracy: 0.998 - ETA: 49s - loss: 0.0176 - accuracy: 0.997 - ETA: 49s - loss: 0.0175 - accuracy y: 0.998 - ETA: 49s - loss: 0.0174 - accuracy: 0.998 - ETA: 49s - loss: 0.0173 - accuracy: 0.998 - ETA: 48s - loss: 0.0172 - accuracy: 0.998 - ETA: 48s - loss: 0.0185 - accuracy: 0.997 - ETA: 48s - loss: 0.0184 - accuracy: 0.997 - ETA: 47s - loss: 0.0183 - accuracy: 0. 997 - ETA: 47s - loss: 0.0182 - accuracy: 0.997 - ETA: 47s - loss: 0.0181 - accuracy: 0.997 - ETA: 47s - loss: 0.0180 - accuracy: 0.99 7 - ETA: 46s - loss: 0.0179 - accuracy: 0.997 - ETA: 46s - loss: 0.0178 - accuracy: 0.997 - ETA: 46s - loss: 0.0177 - accuracy: 0.997 - ETA: 45s - loss: 0.0176 - accuracy: 0.997 - ETA: 45s - loss: 0.0175 - accuracy: 0.998 -ETA: 44s - loss: 0.0174 - accuracy: 0.998 - ETA: 44s - loss: 0.0173 - accuracy: 0.998 - ETA: 43s - loss: 0.0172 - accuracy: 0.998 - ETA A: 43s - loss: 0.0171 - accuracy: 0.998 - ETA: 42s - loss: 0.0183 - accuracy: 0.997 - ETA: 42s - loss: 0.0182 - accuracy: 0.997 - ETA: 42s - loss: 0.0193 - accuracy: 0.997 - ETA: 42s - loss: 0.0192 - accuracy: 0.997 - ETA: 41s - loss: 0.0191 - accuracy: 0.997 - ETA: 41s - loss: 0.0201 - accuracy: 0.997 - ETA: 41s - loss: 0.0201 - accuracy: 0.997 - ETA: 40s - loss: 0.0209 - accuracy: 0.997 - ETA: 40s - loss: 0.0208 - accuracy: 0.997 - ETA: 40s - loss: 0.0208 - accuracy: 0.997 - ETA: 39s - loss: 0.0207 - accuracy: 0.997 - ETA: 39s loss: 0.0207 - accuracy: 0.997 - ETA: 39s - loss: 0.0206 - accuracy: 0.997 - ETA: 38s - loss: 0.0206 - accuracy: 0.997 - ETA: 38s - lo ss: 0.0205 - accuracy: 0.997 - ETA: 38s - loss: 0.0205 - accuracy: 0.997 - ETA: 38s - loss: 0.0204 - accuracy: 0.997 - ETA: 37s - loss: 0.0204 - accuracy: 0.0210 - accuracy: 0.997 - ETA: 36s - loss: 0.0210 - accuracy: 0.997 - ETA: 36s - loss: 0.0209 - accuracy: 0.997 - ETA: 35s - loss: 0. 0208 - accuracy: 0.997 - ETA: 35s - loss: 0.0207 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.02 15 - accuracy: 0.997 - ETA: 34s - loss: 0.0223 - accuracy: 0.997 - ETA: 34s - loss: 0.0222 - accuracy: 0.997 - ETA: 34s - loss: 0.0221 - accuracy: 0.997 - ETA: 33s - loss: 0.0229 - accuracy: 0.997 - ETA: 33s - loss: 0.0229 - accuracy: 0.997 - ETA: 33s - loss: 0.0228 accuracy: 0.997 - ETA: 32s - loss: 0.0227 - accuracy: 0.997 - ETA: 32s - loss: 0.0227 - accuracy: 0.997 - ETA: 32s - loss: 0.0226 - ac curacy: 0.997 - ETA: 31s - loss: 0.0233 - accuracy: 0.996 - ETA: 31s - loss: 0.0232 - accuracy: 0.997 - ETA: 31s - loss: 0.0231 - accu racy: 0.997 - ETA: 31s - loss: 0.0231 - accuracy: 0.997 - ETA: 30s - loss: 0.0230 - accuracy: 0.997 - ETA: 30s - loss: 0.0229 - accura cy: 0.997 - ETA: 30s - loss: 0.0228 - accuracy: 0.997 - ETA: 29s - loss: 0.0228 - accuracy: 0.997 - ETA: 29s - loss: 0.0227 - accuracy y: 0.997 - ETA: 29s - loss: 0.0226 - accuracy: 0.997 - ETA: 29s - loss: 0.0225 - accuracy: 0.997 - ETA: 28s - loss: 0.0225 - accuracy: 0.997 - ETA: 28s - loss: 0.0224 - accuracy: 0.997 - ETA: 28s - loss: 0.0223 - accuracy: 0.997 - ETA: 27s - loss: 0.0222 - accuracy: 0. 997 - ETA: 27s - loss: 0.0221 - accuracy: 0.997 - ETA: 27s - loss: 0.0220 - accuracy: 0.997 - ETA: 27s - loss: 0.0220 - accuracy: 0.997 7 - ETA: 26s - loss: 0.0219 - accuracy: 0.997 - ETA: 25s - loss: 0.0218 - accuracy: 0.997 - ETA: 26s - loss: 0.0219 - accuracy: 0.997 - ETA: 25s - loss: 0.0216 - accuracy: 0.997 - ETA: 25s - loss: 0.0215 - accuracy: 0.997 - ETA: 25s - loss: 0 ETA: 25s - loss: 0.0214 - accuracy: 0.997 - ETA: 24s - loss: 0.0213 - accuracy: 0.997 - ETA: 24s - loss: 0.0214 - accuracy: 0.997 - ETA: 24s - loss: 0.0219 - accuracy: 0.997 - ETA: 24s - loss: 0.0219 - accuracy: 0.997 - ETA: 24s - loss: 0.0219 - accuracy: 0.997 - ETA: 25s - accuracy: 0.997 - ETA: 25s - accuracy: 0.997 - ETA: 25s 23s - loss: 0.0218 - accuracy: 0.997 - ETA: 23s - loss: 0.0217 - accuracy: 0.997 - ETA: 22s - loss: 0.0216 - accuracy: 0.997 - ETA: 22s - loss: 0.0216 - accuracy: 0.997 - ETA: 22s - loss: 0.0216 - accuracy: 0.997 - ETA: 22s - loss: 0.0217 - accuracy: 0.997 - ETA: 22s - loss: 0.0223 - accuracy: 0.997 - ETA: 21s - loss: 0.0222 - accuracy: 0.997 - ETA: 21s - loss: 0.0221 - accuracy: 0.997 - ETA: 21s - loss: 0.0220 - accuracy: 0.997 - ETA: 20s - loss: 0.0220 - accur ss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0224 - accuracy: 0.997 - ETA: 19s - loss: 0.0223 - accuracy: 0.997 - ETA: 19s - loss: 0.0223 - accuracy: 0.997 - ETA: 18s - loss: 0.0222 - accuracy: 0.997 - ETA: 18s - loss: 0.0225 - accuracy: 0.0221 - accuracy: 0.997 - ETA: 18s - loss: 0.0220 - accuracy: 0.997 - ETA: 18s - loss: 0.0227 - accuracy: 0.997 - ETA: 17s - loss: 0. 0226 - accuracy: 0.997 - ETA: 17s - loss: 0.0225 - accuracy: 0.997 - ETA: 17s - loss: 0.0225 - accuracy: 0.997 - ETA: 17s - loss: 0.02 24 - accuracy: 0.997 - ETA: 16s - loss: 0.0223 - accuracy: 0.997 - ETA: 16s - loss: 0.0223 - accuracy: 0.997 - ETA: 16s - loss: 0.0222 - accuracy: 0.997 - ETA: 16s - loss: 0.0221 - accuracy: 0.997 - ETA: 15s - loss: 0.0221 - accuracy: 0.997 - ETA: 15s - loss: 0.0220 accuracy: 0.997 - ETA: 15s - loss: 0.0219 - accuracy: 0.997 - ETA: 15s - loss: 0.0219 - accuracy: 0.997 - ETA: 14s - loss: 0.0218 - ac curacy: 0.997 - ETA: 14s - loss: 0.0217 - accuracy: 0.997 - ETA: 14s - loss: 0.0217 - accuracy: 0.997 - ETA: 14s - loss: 0.0216 - accu racy: 0.997 - ETA: 14s - loss: 0.0216 - accuracy: 0.997 - ETA: 13s - loss: 0.0215 - accuracy: 0.997 - ETA: 13s - loss: 0.0214 - accura cy: 0.997 - ETA: 13s - loss: 0.0213 - accuracy: 0.997 - ETA: 13s - loss: 0.0213 - accuracy: 0.997 - ETA: 12s - loss: 0.0212 - accurac y: 0.997 - ETA: 12s - loss: 0.0212 - accuracy: 0.997 - ETA: 12s - loss: 0.0211 - accuracy: 0.997 - ETA: 12s - loss: 0.0210 - accuracy: 0.997 - ETA: 11s - loss: 0.0210 - accuracy: 0.997 - ETA: 11s - loss: 0.0209 - accuracy: 0.997 - ETA: 11s - loss: 0.0208 - accuracy: 0. 997 - ETA: 11s - loss: 0.0208 - accuracy: 0.997 - ETA: 10s - loss: 0.0207 - accuracy: 0.997 - ETA: 10s - loss: 0.0206 - accuracy: 0.99 7 - ETA: 10s - loss: 0.0206 - accuracy: 0.997 - ETA: 10s - loss: 0.0205 - accuracy: 0.997 - ETA: 9s - loss: 0.0204 - accuracy: 0.997 -ETA: 9s - loss: 0.0204 - accuracy: 0.99 - ETA: 9s - loss: 0.0203 - accuracy: 0.9974322/322 [============] - ETA: 9s · loss: 0.0202 - accuracy: 0.99 - ETA: 9s - loss: 0.0202 - accuracy: 0.99 - ETA: 8s - loss: 0.0209 - accuracy: 0.99 - ETA: 8s - loss: 0.0216 - accuracy: 0.99 - ETA: 8s - loss: 0.0215 - accuracy: 0.99 - ETA: 8s - loss: 0.0214 - accuracy: 0.99 - ETA: 7s - loss: 0.0214 accuracy: 0.99 - ETA: 7s - loss: 0.0213 - accuracy: 0.99 - ETA: 7s - loss: 0.0213 - accuracy: 0.99 - ETA: 7s - loss: 0.0212 - accuracy y: 0.99 - ETA: 7s - loss: 0.0212 - accuracy: 0.99 - ETA: 6s - loss: 0.0211 - accuracy: 0.99 - ETA: 6s - loss: 0.0210 - accuracy: 0.99 ETA: 6s - loss: 0.0210 - accuracy: 0.99 - ETA: 5s - loss: 0.0209 - accuracy: 0.99 - ETA: 5s - loss: 0.0214 - accuracy: 0.99 - ETA: 0.0214 s: 0.0213 - accuracy: 0.99 - ETA: 4s - loss: 0.0212 - accuracy: 0.99 - ETA: 4s - loss: 0.0212 - accuracy: 0.99 - ETA: 4s - loss: 0.021 1 - accuracy: 0.99 - ETA: 4s - loss: 0.0211 - accuracy: 0.99 - ETA: 3s - loss: 0.0210 - accuracy: 0.99 - ETA: 3s - loss: 0.0210 - accu racy: 0.99 - ETA: 3s - loss: 0.0209 - accuracy: 0.99 - ETA: 3s - loss: 0.0209 - accuracy: 0.99 - ETA: 2s - loss: 0.0208 - accuracy: 0. 99 - ETA: 2s - loss: 0.0208 - accuracy: 0.99 - ETA: 2s - loss: 0.0207 - accuracy: 0.99 - ETA: 2s - loss: 0.0206 - accuracy: 0.99 - ET A: 2s - loss: 0.0206 - accuracy: 0.99 - ETA: 1s - loss: 0.0205 - accuracy: 0.99 - ETA: 1s - loss: 0.0205 - accuracy: 0.99 - ETA: 1s loss: 0.0204 - accuracy: 0.99 - ETA: 1s - loss: 0.0204 - accuracy: 0.99 - ETA: 0s - loss: 0.0203 - accuracy: 0.99 - ETA: 0s - loss: 0.0202 - accuracy: 0.99 ccuracy: 0.99 - 78s 242ms/step - loss: 0.0202 - accuracy: 0.9975 - val_loss: 0.0236 - val_accuracy: 0.9968

186/322 [==========>......] - ETA: 0s - loss: 0.0033 - accuracy: 1.00 - ETA: 41s - loss: 0.1049 - accuracy: 0.984 - ETA: 57s - loss: 0.0711 - accuracy: 0.989 - ETA: 1:04 - loss: 0.0543 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0442 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0375 - accuracy: 0.99 - ETA: 1:31 - loss: 0.0327 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0533 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0479 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0436 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0401 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0371 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0346 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0325 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0306 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0290 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0275 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0262 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0240 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0231 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0222 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0214 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0201 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0201 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0194 - accuracy: 0

```
88 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0183 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0178 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0173
 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0169 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0164 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0160 -
accuracy: 0.99 - ETA: 1:09 - loss: 0.0157 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0153 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0150 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0202 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 0.0193 - accuracy: 0.99 - E
racy: 0.99 - ETA: 1:05 - loss: 0.0189 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0185 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0182 - accura
cy: 0.99 - ETA: 1:06 - loss: 0.0224 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0220 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0216 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0209 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0206 - accuracy:
0.99 - ETA: 1:02 - loss: 0.0203 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0199 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0196 - accuracy: 0.
99 - ETA: 1:01 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0191 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0188 - accuracy: 0.99
 - ETA: 59s - loss: 0.0185 - accuracy: 0.997 - ETA: 58s - loss: 0.0183 - accuracy: 0.997 - ETA: 58s - loss: 0.0180 - accuracy: 0.997 -
ETA: 58s - loss: 0.0178 - accuracy: 0.997 - ETA: 58s - loss: 0.0175 - accuracy: 0.997 - ETA: 57s - loss: 0.0173 - accuracy: 0.997 - ETA
 A: 56s - loss: 0.0171 - accuracy: 0.998 - ETA: 56s - loss: 0.0169 - accuracy: 0.998 - ETA: 55s - loss: 0.0167 - accuracy: 0.998 - ETA:
55s - loss: 0.0165 - accuracy: 0.998 - ETA: 54s - loss: 0.0163 - accuracy: 0.998 - ETA: 55s - loss: 0.0161 - accuracy: 0.998 - ETA: 56
s - loss: 0.0159 - accuracy: 0.998 - ETA: 56s - loss: 0.0157 - accuracy: 0.998 - ETA: 56s - loss: 0.0155 - accuracy: 0.998 - ETA: 56s
 - loss: 0.0153 - accuracy: 0.998 - ETA: 57s - loss: 0.0152 - accuracy: 0.998 - ETA: 56s - loss: 0.0150 - accuracy: 0.998 - ETA: 55s -
 loss: 0.0148 - accuracy: 0.998 - ETA: 55s - loss: 0.0147 - accuracy: 0.998 - ETA: 55s - loss: 0.0173 - accuracy: 0.997 - ETA: 54s - lo
ss: 0.0171 - accuracy: 0.997 - ETA: 54s - loss: 0.0169 - accuracy: 0.998 - ETA: 54s - loss: 0.0168 - accuracy: 0.998 - ETA: 53s - los
 s: 0.0166 - accuracy: 0.998 - ETA: 53s - loss: 0.0164 - accuracy: 0.998 - ETA: 52s - loss: 0.0163 - accuracy: 0.998 - ETA: 52s - loss:
0.0161 - accuracy: 0.998 - ETA: 51s - loss: 0.0160 - accuracy: 0.998 - ETA: 51s - loss: 0.0158 - accuracy: 0.998 - ETA: 51s - loss: 0.
0157 - accuracy: 0.998 - ETA: 50s - loss: 0.0155 - accuracy: 0.998 - ETA: 50s - loss: 0.0154 - accuracy: 0.998 - ETA: 50s - loss: 0.01
97 - accuracy: 0.997 - ETA: 50s - loss: 0.0196 - accuracy: 0.997 - ETA: 50s - loss: 0.0194 - accuracy: 0.997 - ETA: 50s - loss: 0.0192
 - accuracy: 0.997 - ETA: 50s - loss: 0.0191 - accuracy: 0.997 - ETA: 50s - loss: 0.0190 - accuracy: 0.997 - ETA: 50s - loss: 0.0188 -
accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0186 - accuracy: 0.997 - ETA: 51s - loss: 0.0184 - accuracy: 0.997 - ETA: 51s - loss: 0.0186 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - ETA: 51s - loss: 0.0187 - accuracy: 0.997 - accuracy
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ccuracy: 0.99 - ETA: 5s - loss: 0.0200 - accuracy: 0.99 - ETA: 4s - loss: 0.0200 - accuracy: 0.99 - ETA: 4s - loss: 0.0199 - accuracy: 0.99 - ETA: 4s - loss: 0.0199 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 3s - loss: 0.0198 - accuracy: 0.99 - ETA: 3s - loss: 0.0198 - accuracy: 0.99 - ETA: 2s - loss: 0.0197 - accuracy: 0.99 - ETA: 2s - loss: 0.0195 - accuracy: 0.99 - ETA: 2s - loss: 0.0195 - accuracy: 0.99 - ETA: 2s - loss: 0.0195 - accuracy: 0.99 - ETA: 1s - loss: 0.0194 - accuracy: 0.99 - ETA: 1s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0199 - accuracy: 0.99 - ETA: 0s - loss: 0.0198 - accuracy: 0.99 - ETA: 0s - loss: 0.0198 - accuracy: 0.99 - BTA: 0s - loss: 0.0198 - accuracy: 0.99 - BTA: 0s - loss: 0.0198 - accuracy: 0.99 - BTA: 0s - loss: 0.0198 - accuracy: 0.99 - 98s 304ms/step - loss: 0.0198 - accuracy: 0.9968

Enoch 7/50 186/322 [========>......] - ETA: 0s - loss: 0.0041 - accuracy: 1.00 - ETA: 25s - loss: 0.0040 - accuracy: 1.000 - ETA: 39s - loss: 0.0040 - accuracy: 1.000 - ETA: 43s - loss: 0.0509 - accuracy: 0.992 - ETA: 52s - loss: 0.0415 - accuracy: 0.993 - ETA: 1: 05 - loss: 0.0353 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0309 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:33 - loss: 0.0465 - accuracy: 0.99 - ETA: 1:44 - loss: 0.0424 - accuracy: 0.99 - ETA: 1:43 - loss: 0.0390 - accuracy: 0.99 - ETA: 1:42 loss: 0.0363 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0340 - accuracy: 0.99 - ETA: 1:38 - loss: 0.0320 - accuracy: 0.99 - ETA: 1:36 - lo ss: 0.0303 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0287 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0274 - accuracy: 0.99 - ETA: 1:31 - los s: 0.0262 - accuracy: 0.99 - ETA: 1:29 - loss: 0.0251 - accuracy: 0.99 - ETA: 1:29 - loss: 0.0241 - accuracy: 0.99 - ETA: 1:33 - loss: 0.0232 - accuracy: 0.99 - ETA: 1:33 - loss: 0.0224 - accuracy: 0.99 - ETA: 1:31 - loss: 0.0216 - accuracy: 0.99 - ETA: 1:30 - loss: 0. 0209 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0203 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:28 - loss: 0.02 61 - accuracy: 0.99 - ETA: 1:26 - loss: 0.0254 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0247 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0240 - accuracy: 0.99 - ETA: 1:23 - loss: 0.0234 - accuracy: 0.99 - ETA: 1:23 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:23 - loss: 0.0223 accuracy: 0.99 - ETA: 1:23 - loss: 0.0218 - accuracy: 0.99 - ETA: 1:23 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:22 - loss: 0.0208 - ac curacy: 0.99 - ETA: 1:22 - loss: 0.0204 - accuracy: 0.99 - ETA: 1:22 - loss: 0.0199 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:22 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:22 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:22 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:22 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0195 - accuracy: 0.99 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0195 - accuracy: 0.99 - accura racy: 0.99 - ETA: 1:20 - loss: 0.0191 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0235 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0277 - accura cy: 0.99 - ETA: 1:20 - loss: 0.0272 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0262 - accurac 9: 0.99 - ETA: 1:17 - loss: 0.0258 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0254 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0258 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0259 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0240 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0240 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0240 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0240 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0240 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0240 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0240 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0240 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0240 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0240 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0240 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0240 - accuracy: 0.99 - ETA: 1:19 - 99 - ETA: 1:16 - loss: 0.0235 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0232 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0222 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0219 - accuracy: 0.99 -ETA: 1:15 - loss: 0.0216 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:13 - loss: 0.02 1:13 - loss: 0.0199 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0223 - accuracy: 0.99 - ETA: 1: 12 - loss: 0.0220 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0214 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0212 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:12 loss: 0.0231 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0229 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0226 - accuracy: 0.99 - ETA: 1:10 - lo ss: 0.0224 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0219 - accuracy: 0.99 - ETA: 1:10 - los s: 0.0217 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0215 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0231 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0229 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:08 - loss: 0. 0225 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0223 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:07 - loss: 0.02 19 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0215 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0234 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0232 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0230 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0228 accuracy: 0.99 - ETA: 1:06 - loss: 0.0226 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0224 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0223 - ac curacy: 0.99 - ETA: 1:06 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0219 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0218 - accu racy: 0.99 - ETA: 1:05 - loss: 0.0216 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0214 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0213 - accura cy: 0.99 - ETA: 1:05 - loss: 0.0211 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0209 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0208 - accuracy y: 0.99 - ETA: 1:03 - loss: 0.0206 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0203 - accuracy: ó.99 - ETA: 1:02 - loss: 0.0202 - accuracy: ó.99 - ETA: 1:02 - loss: 0.0200 - accuracy: ó.99 - ETA: 1:02 - loss: 0.0199 - accuracy: ó. 99 - ETA: 1:01 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0196 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0192 - accuracy: 0.99 - ETA: 59s - loss: 0.0190 - accuracy: 0.9976 -ETA: 59s - loss: 0.0189 - accuracy: 0.997 - ETA: 59s - loss: 0.0188 - accuracy: 0.997 - ETA: 59s - loss: 0.0186 - accuracy: 0.997 - ETA 59s - loss: 0.0185 - accuracy: 0.997 - ETA: 59s - loss: 0.0184 - accuracy: 0.997 - ETA: 58s - loss: 0.0182 - accuracy: 0.997 - ETA: 59s - loss: 0.0181 - accuracy: 0.997 - ETA: 59s - loss: 0.0180 - accuracy: 0.997 - ETA: 58s - loss: 0.0179 - accuracy: 0.997 - ETA: 58s - accuracy: 0.997 s - loss: 0.0178 - accuracy: 0.997 - ETA: 58s - loss: 0.0176 - accuracy: 0.997 - ETA: 58s - loss: 0.0175 - accuracy: 0.997 - ETA: 57s - loss: 0.0174 - accuracy: 0.997 - ETA: 57s - loss: 0.0173 - accuracy: 0.997 - ETA: 56s - loss: 0.0172 - accuracy: 0.997 - ETA: 56s - loss: 0.0174 - accuracy: 0.997 - ETA: 57s - loss: 0.0173 - accuracy: 0.997 - ETA: 56s - loss: 0.0174 - accuracy: 0.997 - ETA: 57s - loss: 0.0173 - accuracy: 0.997 - ETA: 57s - loss: 0.0174 - acc loss: 0.0171 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 55s - loss: 0.0169 - accuracy: 0.997 - ETA: 55s - loss: 0.0170 - accuracy: 0.997 - ETA: 55s - loss: 0.997 - ETA: 55s - loss ss: 0.0184 - accuracy: 0.997 - ETA: 55s - loss: 0.0183 - accuracy: 0.997 - ETA: 55s - loss: 0.0182 - accuracy: 0.997 - ETA: 54s - los s: 0.0197 - accuracy: 0.997 - ETA: 54s - loss: 0.0196 - accuracy: 0.997 - ETA: 53s - loss: 0.0209 - accuracy: 0.997 - ETA: 53s - loss: 0.0208 - accuracy: 0.997 - ETA: 53s - loss: 0.0207 - accuracy: 0.997 - ETA: 53s - loss: 0.0206 - accuracy: 0.997 - ETA: 52s - loss: 0. 0206 - accuracy: 0.997 - ETA: 52s - loss: 0.0205 - accuracy: 0.997 - ETA: 52s - loss: 0.0204 - accuracy: 0.997 - ETA: 51s - loss: 0.02 03 - accuracy: 0.997 - ETA: 51s - loss: 0.0202 - accuracy: 0.997 - ETA: 51s - loss: 0.0201 - accuracy: 0.997 - ETA: 50s - loss: 0.0200 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0198 - accuracy: 0.997 - ETA: 49s - loss: 0.0197 accuracy: 0.997 - ETA: 49s - loss: 0.0196 - accuracy: 0.997 - ETA: 49s - loss: 0.0195 - accuracy: 0.997 - ETA: 48s - loss: 0.0195 - a ccuracy: 0.997 - ETA: 48s - loss: 0.0194 - accuracy: 0.997 - ETA: 47s - loss: 0.0193 - accuracy: 0.997 - ETA: 47s - loss: 0.0192 - acc uracy: 0.997 - ETA: 47s - loss: 0.0202 - accuracy: 0.997 - ETA: 46s - loss: 0.0201 - accuracy: 0.997 - ETA: 46s - loss: 0.0200 - accuracy: 0.997 - accuracy: 0.9 acy: 0.997 - ETA: 46s - loss: 0.0199 - accuracy: 0.997 - ETA: 45s - loss: 0.0198 - accuracy: 0.997 - ETA: 45s - loss: 0.0197 - accuracy y: 0.997 - ETA: 45s - loss: 0.0196 - accuracy: 0.997 - ETA: 44s - loss: 0.0196 - accuracy: 0.997 - ETA: 44s - loss: 0.0196 - accuracy: ó.997 - ETA: 44s - loss: 0.0194 - accuracy: ó.997 - ETA: 44s - loss: 0.0193 - accuracy: ó.997 - ETA: 43s - loss: 0.0203 - accuracy: ó. 997 - ETA: 43s - loss: 0.0202 - accuracy: 0.997 - ETA: 43s - loss: 0.0201 - accuracy: 0.997 - ETA: 42s - loss: 0.0200 - accuracy: 0.99 7 - ETA: 42s - loss: 0.0220 - accuracy: 0.997 - ETA: 42s - loss: 0.0219 - accuracy: 0.997 - ETA: 42s - loss: 0.0218 - accuracy: 0.997 - ETA: 41s - loss: 0.0217 - accuracy: 0.997 - ETA: 41s - loss: 0.0217 - accuracy: 0.997 - ETA: 40s - loss: 0.0216 - accuracy: 0.997 -ETA: 40s - loss: 0.0215 - accuracy: 0.997 - ETA: 40s - loss: 0.0214 - accuracy: 0.997 - ETA: 40s - loss: 0.0214 - accuracy: 0.997 - ETA - loss: 0.0227 - accuracy: 0.997 - ETA: 38s - loss: 0.0226 - accuracy: 0.997 - ETA: 38s - loss: 0.0226 - accuracy: 0.997 - ETA: 37s - loss: 0.0224 - accuracy: 0.997 - ETA: 37s - loss: 0.0232 - accuracy: 0.997 - ETA: 37s - loss: 0.0231 - accuracy: 0.997 - ETA: 36s - lo ss: 0.0230 - accuracy: 0.997 - ETA: 36s - loss: 0.0230 - accuracy: 0.997 - ETA: 36s - loss: 0.0237 - accuracy: 0.996 - ETA: 35s - loss: 0.0236 - accuracy: 0.996 - ETA: 35s - loss: 0.0237 - accuracy: 0.996 - ETA: 35s - loss: 0.0234 - accuracy: 0.996 - ETA: 34s - loss: 0.0233 - accuracy: 0.996 - ETA: 34s - loss: 0.0234 - accuracy: 0.996 - ETA: 34s - loss: 0.0233 - accuracy: 0.996 - ETA: 34s - loss: 0.0235 - accuracy: 0.996 - ETA: 34s - loss: 0.0236 - accuracy: 0.996 - ETA: 34s - loss: 0.0237 - accuracy: 0.0234 - accuracy: 0.996 - ETA: 345 - 1055: 0.0235 - accuracy: 0.996 - ETA: 335 - 1055: 0.0238 - accuracy: 0.996 - ETA: 335 - 1055: 0.0238 - accuracy: 0.996 - ETA: 335 - 1055: 0.0238 - accuracy: 0.996 - ETA: 325 - 1055: 0.0236 - accuracy: 0.9 - accuracy: 0.996 - ETA: 32s - loss: 0.0234 - accuracy: 0.996 - ETA: 32s - loss: 0.0241 - accuracy: 0.996 - ETA: 31s - loss: 0.0240 - accuracy: 0.996 - ETA: 31s - loss: 0.0239 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - a ccuracy: 0.996 - ETA: 31s - loss: 0.0237 - accuracy: 0.996 - ETA: 31s - loss: 0.0236 - accuracy: 0.996 - ETA: 31s - loss: 0.0243 - acc uracy: 0.996 - ETA: 31s - loss: 0.0242 - accuracy: 0.996 - ETA: 30s - loss: 0.0241 - accuracy: 0.996 - ETA: 30s - loss: 0.0241 - accur acy: 0.996 - ETA: 30s - loss: 0.0240 - accuracy: 0.996 - ETA: 29s - loss: 0.0239 - accuracy: 0.996 - ETA: 29s - loss: 0.0238 - accurac y: 0.996 - ETA: 29s - loss: 0.0237 - accuracy: 0.996 - ETA: 29s - loss: 0.0237 - accuracy: 0.996 - ETA: 28s - loss: 0.0236 - accuracy: 0.996 - ETA: 28s - loss: 0.0235 - accuracy: 0.996 - ETA: 28s - loss: 0.0234 - accuracy: 0.996 - ETA: 27s - loss: 0.0233 - accuracy: 0. 996 - ETA: 27s - loss: 0.0232 - accuracy: 0.996 - ETA: 27s - loss: 0.0232 - accuracy: 0.996 - ETA: 26s - loss: 0.0231 - accuracy: 0.99 7 - ETA: 26s - loss: 0.0230 - accuracy: 0.997 - ETA: 26s - loss: 0.0229 - accuracy: 0.997 - ETA: 25s - loss: 0.0228 - accuracy: 0.997 - ETA: 25s - loss: 0.0228 - accuracy: 0.997 - ETA: 25s - loss: 0.0227 - accuracy: 0.997 - ETA: 24s - loss: 0.0226 - accuracy: 0.997 -ETA: 24s - loss: 0.0225 - accuracy: 0.997 - ETA: 24s - loss: 0.0224 - accuracy: 0.997 - ETA: 23s - loss: 0.0224 - accuracy: 0.997 - ET A: 23s - loss: 0.0223 - accuracy: 0.997 - ETA: 23s - loss: 0.0222 - accuracy: 0.997 - ETA: 22s - loss: 0.0221 - accuracy: 0.997 - ETA: 22s - loss: 0.0220 - accuracy: 0.997 - ETA: 22s - loss: 0.0220 - accuracy: 0.997 - ETA: 21s - loss: 0.0219 - accuracy: 0.997 - ETA: 21

```
s - loss: 0.0218 - accuracy: 0.997 - ETA: 21s - loss: 0.0217 - accuracy: 0.997 - ETA: 20s - loss: 0.0217 - accuracy: 0.997 - ETA: 20s - loss: 0.0216 - accuracy: 0.997 - ETA: 20s - loss: 0.0214 - accuracy: 0.997 - ETA: 19s -
loss: 0.0214 - accuracy: 0.997 - ETA: 19s - loss: 0.0213 - accuracy: 0.997 - ETA: 19s - loss: 0.0212 - accuracy: 0.997 - ETA: 18s - lo
ss: 0.0212 - accuracy: 0.997 - ETA: 18s - loss: 0.0211 - accuracy: 0.997 - ETA: 18s - loss: 0.0219 - accuracy: 0.997 - ETA: 17s - los
s: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0217 - accuracy: 0.997 - ETA: 17s - loss: 0.0216 - accuracy: 0.997 - ETA: 16s - loss:
0.0216 - accuracy: 0.997 - ETA: 16s - loss: 0.0223 - accuracy: 0.997 - ETA: 16s - loss: 0.0222 - accuracy: 0.997 - ETA: 16s - loss: 0.
0222 - accuracy: 0.997 - ETA: 15s - loss: 0.0221 - accuracy: 0.997 - ETA: 15s - loss: 0.0220 - accuracy: 0.997 - ETA: 15s - loss: 0.02
20 - accuracy: 0.997 - ETA: 15s - loss: 0.0219 - accuracy: 0.997 - ETA: 14s - loss: 0.0218 - accuracy: 0.997 - ETA: 14s - loss: 0.0218
- accuracy: 0.997 - ETA: 14s - loss: 0.0217 - accuracy: 0.997 - ETA: 13s - loss: 0.0216 - accuracy: 0.997 - ETA: 13s - loss: 0.0216 -
 accuracy: 0.997 - ETA: 13s - loss: 0.0215 - accuracy: 0.997 - ETA: 13s - loss: 0.0215 - accuracy: 0.997 - ETA: 12s - loss: 0.0214 - a
ccuracy: 0.997 - ETA: 12s - loss: 0.0213 - accuracy: 0.997 - ETA: 12s - loss: 0.0213 - accuracy: 0.997 - ETA: 11s - loss: 0.0212 - acc
uracy: 0.997 - ETA: 11s - loss: 0.0211 - accuracy: 0.997 - ETA: 11s - loss: 0.0211 - accuracy: 0.997 - ETA: 10s - loss: 0.0210 - accur
acy: 0.997 - ETA: 10s - loss: 0.0210 - accuracy: 0.997 - ETA: 10s - loss: 0.0209 - accuracy: 0.997 - ETA: 9s - loss: 0.0208 - accuracy
y: 0.997 - ETA: 9s - loss: 0.0208 - accuracy: 0.99 - ETA: 9s - loss: 0.0207 - accuracy: 0.99 - ETA: 9s - loss: 0.0207 - accuracy: 0.99
- ETA: 8s - loss: 0.0206 - accuracy: 0.99 - ETA: 8s - loss: 0.0205 - accuracy: 0.99 - ETA: 8s - loss: 0.0205 - accuracy: 0.99 - ETA: 7
s - loss: 0.0204 - accuracy: 0.99 - ETA: 7s - loss: 0.0204 - accuracy: 0.99 - ETA: 7s - loss: 0.0203 - accuracy: 0.99 - ETA: 6s - los
s: 0.0202 - accuracy: 0.99 - ETA: 6s - loss: 0.0202 - accuracy: 0.99 - ETA: 6s - loss: 0.0201 - accuracy: 0.99 - ETA: 5s - loss: 0.020
1 - accuracy: 0.99 - ETA: 5s - loss: 0.0200 - accuracy: 0.99 - ETA: 5s - loss: 0.0200 - accuracy: 0.99 - ETA: 4s - loss: 0.0199 - accu
racy: 0.99 - ETA: 4s - loss: 0.0199 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0197 - accuracy: 0.
99 - ETA: 3s - loss: 0.0197 - accuracy: 0.99 - ETA: 3s - loss: 0.0196 - accuracy: 0.99 - ETA: 3s - loss: 0.0196 - accuracy: 0.99 - ETA: 1s - loss: 0.0195 - accuracy: 0.99 - ETA: 1s -
 loss: 0.0194 - accuracy: 0.99 - ETA: 1s - loss: 0.0193 - accuracy: 0.99 - ETA: 1s - loss: 0.0193 - accuracy: 0.99 - ETA: 0s - loss: 0.0192 - accuracy: 0.99 - ETA: 0s - loss: 0.0192 - accuracy: 0.99 - 114s 354ms/step - loss:
0.0198 - accuracy: 0.9975 - val_loss: 0.0251 - val_accuracy: 0.9968
 43/322 [===>.....] - ETA: 0s - loss: 0.0035 - accuracy: 1.00 - ETA: 35s - loss: 0.0044 - accuracy: 1.000 - ETA: 51s - loss: 0.0053 - accuracy: 1.000 - ETA: 1:16 - loss: 0.0060 - accuracy: 1.00 - ETA: 1:37 - loss: 0.0065 - accuracy: 1.00 - ETA:
 1:46 - loss: 0.0067 - accuracy: 1.00 - ETA: 2:02 - loss: 0.0068 - accuracy: 1.00 - ETA: 2:09 - loss: 0.0068 - accuracy: 1.00 - ETA: 2:11 - loss: 0.0067 - accuracy: 1.00 - ETA: 2:12 - loss: 0.0066 - accuracy: 1.00 - ETA: 2:23 - loss: 0.0065 - accuracy: 1.00 - ETA: 2:00 -
  2:24 - loss: 0.0065 - accuracy: 1.00 - ETA: 2:26 - loss: 0.0064 - accuracy: 1.00 - ETA: 2:34 - loss: 0.0063 - accuracy: 1.00 - ETA:
  2:35 - loss: 0.0063 - accuracy: 1.00 - ETA: 2:37 - loss: 0.0062 - accuracy: 1.00 - ETA: 2:40 - loss: 0.0062 - accuracy: 1.00 - ETA:
  2:41 - loss: 0.0061 - accuracy: 1.00 - ETA: 2:40 - loss: 0.0061 - accuracy: 1.00 - ETA: 2:45 - loss: 0.0060 - accuracy: 1.00 - ETA:
  2:46 - loss: 0.0060 - accuracy: 1.00 - ETA: 2:46 - loss: 0.0059 - accuracy: 1.00 - ETA: 2:52 - loss: 0.0059 - accuracy: 1.00 - ETA:
  2:52 - loss: 0.0136 - accuracy: 0.99 - ETA: 2:54 - loss: 0.0133 - accuracy: 0.99 - ETA: 2:55 - loss: 0.0130 - accuracy: 0.99 - ETA:
  2:55 - loss: 0.0127 - accuracy: 0.99 - ETA: 2:55 - loss: 0.0124 - accuracy: 0.99 - ETA: 2:54 - loss: 0.0121 - accuracy: 0.99 - ETA:
  2:53 - loss: 0.0119 - accuracy: 0.99 - ETA: 2:51 - loss: 0.0117 - accuracy: 0.99 - ETA: 2:52 - loss: 0.0114 - accuracy: 0.99 - ETA:
  2:52 - loss: 0.0112 - accuracy: 0.99 - ETA: 2:52 - loss: 0.0110 - accuracy: 0.99 - ETA: 2:57 - loss: 0.0108 - accuracy: 0.99 - ETA:
  3:05 - loss: 0.0106 - accuracy: 0.99 - ETA: 3:13 - loss: 0.0105 - accuracy: 0.99 - ETA: 3:16 - loss: 0.0103 - accuracy: 0.99 - ETA:
  3:19 - loss: 0.0149 - accuracy: 0.99 - ETA: 3:21 - loss: 0.0147 - accuracy: 0.99 - ETA: 3:22 - loss: 0.0144 - accuracy: 0.99 - ETA:
 3:24 - loss: 0.0142 - accuracy: 0.99 - ETA: 3:22 - loss: 0.0139 - accuracy: 0.9985WARNING:tensorflow:Method (on_train_batch_end) is s
low compared to the batch update (0.468617). Check your callbacks.
 58/322 [====>.....] - ETA: 3:23 - loss: 0.0137 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0135 - accuracy: 0.99 - ET
A: 3:30 - loss: 0.0133 - accuracy: 0.99 - ETA: 3:30 - loss: 0.0131 - accuracy: 0.99 - ETA: 3:30 - loss: 0.0129 - accuracy: 0.99 - ETA:
3:28 - loss: 0.0128 - accuracy: 0.99 - ETA: 3:32 - loss: 0.0126 - accuracy: 0.99 - ETA: 3:37 - loss: 0.0124 - accuracy: 0.99 - ETA: 3:
41 - loss: 0.0122 - accuracy: 0.99 - ETA: 3:42 - loss: 0.0121 - accuracy: 0.99 - ETA: 3:39 - loss: 0.0119 - accuracy: 0.99 - ETA: 3:36
- loss: 0.0118 - accuracy: 0.99 - ETA: 3:35 - loss: 0.0116 - accuracy: 0.99 - ETA: 3:32 - loss: 0.0115 - accuracy: 0.99 - ETA: 3:29 -
 loss: 0.0113 - accuracy: 0.9989WARNING:tensorflow:Method (on_train_batch_end) is slow compared to the batch update (0.255564). Check
 vour callbacks.
78/322 [=====>.....] - ETA: 3:29 - loss: 0.0112 - accuracy: 0.99 - ETA: 3:27 - loss: 0.0111 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0109 - accuracy: 0.99 - ETA: 3:22 - loss: 0.0108 - accuracy: 0.99 - ETA: 3:21 - loss: 0.0107 - accuracy: 0.99 - ETA:
3:20 - loss: 0.0106 - accuracy: 0.99 - ETA: 3:18 - loss: 0.0105 - accuracy: 0.99 - ETA: 3:17 - loss: 0.0103 - accuracy: 0.99 - ETA: 3:
16 - loss: 0.0102 - accuracy: 0.99 - ETA: 3:16 - loss: 0.0101 - accuracy: 0.99 - ETA: 3:17 - loss: 0.0100 - accuracy: 0.99 - ETA: 3:20
- loss: 0.0099 - accuracy: 0.99 - ETA: 3:22 - loss: 0.0098 - accuracy: 0.99 - ETA: 3:22 - loss: 0.0097 - accuracy: 0.99 - ETA: 3:20 - loss: 0.0096 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0095 - accur
oss: 0.0094 - accuracy: 0.99 - ETA: 3:18 - loss: 0.0093 - accuracy: 0.99 - ETA: 3:16 - loss: 0.0092 - accuracy: 0.9992WARNING:tensorfl
ow:Method (on_train_batch_end) is slow compared to the batch update (0.323569). Check your callbacks.
 79/322 [=====>.....] - ETA: 3:14 - loss: 0.0091 - accuracy: 0.9992WARNING:tensorflow:Method (on_train_batch_end) i
s slow compared to the batch update (0.266567). Check your callbacks.
 83/322 [=====>.....] - ETA: 3:12 - loss: 0.0090 - accuracy: 0.99 - ETA: 3:11 - loss: 0.0089 - accuracy: 0.99 - ET
A: 3:09 - loss: 0.0089 - accuracy: 0.99 - ETA: 3:08 - loss: 0.0088 - accuracy: 0.9992WARNING:tensorflow:Method (on_train_batch_end) is
slow compared to the batch update (0.274070). Check your callbacks.
A: 3:03 - loss: 0.0113 - accuracy: 0.99 - ETA: 3:01 - loss: 0.0112 - accuracy: 0.99 - ETA: 3:00 - loss: 0.0111 - accuracy: 0.99 - ETA:
2:59 - loss: 0.0110 - accuracy: 0.99 - ETA: 2:57 - loss: 0.0110 - accuracy: 0.99 - ETA: 2:55 - loss: 0.0109 - accuracy: 0.99 - ETA: 2:
54 - loss: 0.0108 - accuracy: 0.99 - ETA: 2:52 - loss: 0.0107 - accuracy: 0.99 - ETA: 2:50 - loss: 0.0106 - accuracy: 0.99 - ETA: 2:48
 - loss: 0.0106 - accuracy: 0.99 - ETA: 2:46 - loss: 0.0105 - accuracy: 0.99 - ETA: 2:44 - loss: 0.0104 - accuracy: 0.99 - ETA: 2:43 -
 loss: 0.0103 - accuracy: 0.99 - ETA: 2:41 - loss: 0.0103 - accuracy: 0.99 - ETA: 2:40 - loss: 0.0102 - accuracy: 0.99 - ETA: 2:38 - 1
oss: 0.0101 - accuracy: 0.99 - ETA: 2:37 - loss: 0.0141 - accuracy: 0.99 - ETA: 2:36 - loss: 0.0140 - accuracy: 0.99 - ETA: 2:35 - los
s: 0.0139 - accuracy: 0.99 - ETA: 2:34 - loss: 0.0138 - accuracy: 0.99 - ETA: 2:34 - loss: 0.0137 - accuracy: 0.99 - ETA: 2:33 - loss:
0.0136 - accuracy: 0.99 - ETA: 2:32 - loss: 0.0153 - accuracy: 0.99 - ETA: 2:31 - loss: 0.0152 - accuracy: 0.99 - ETA: 2:30 - loss: 0.
0152 - accuracy: 0.99 - ETA: 2:28 - loss: 0.0166 - accuracy: 0.99 - ETA: 2:27 - loss: 0.0165 - accuracy: 0.99 - ETA: 2:25 - loss: 0.01
79 - accuracy: 0.99 - ETA: 2:25 - loss: 0.0179 - accuracy: 0.99 - ETA: 2:24 - loss: 0.0178 - accuracy: 0.99 - ETA: 2:22 - loss: 0.0178
- accuracy: 0.99 - ETA: 2:21 - loss: 0.0190 - accuracy: 0.99 - ETA: 2:19 - loss: 0.0189 - accuracy: 0.99 - ETA: 2:19 - loss: 0.0189 -
accuracy: 0.99 - ETA: 2:18 - loss: 0.0189 - accuracy: 0.99 - ETA: 2:17 - loss: 0.0200 - accuracy: 0.99 - ETA: 2:16 - loss: 0.0199 - accuracy: 0.99 - ETA: 2:15 - loss: 0.0199 - accuracy: 0.99 - ETA: 2:15 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0198 - accuracy: 0.99 - accu
uracy: 0.99 - ETA: 2:11 - loss: 0.0197 - accuracy: 0.99 - ETA: 2:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 2:08 - loss: 0.0196 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:06 - loss: 0.0194 - accuracy: 0.99 - ETA: 2:05 - loss: 0.0193 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0194 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:0
y: 0.99 - ETA: 2:04 - loss: 0.0192 - accuracy: 0.99 - ETA: 2:02 - loss: 0.0204 - accuracy: 0.99 - ETA: 2:01 - loss: 0.0203 - accuracy:
0.99 - ETA: 2:00 - loss: 0.0202 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0201 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0200 - accuracy: 0.
99 - ETA: 1:57 - loss: 0.0199 - accuracy: 0.99 - ETA: 1:56 - loss: 0.0198 - accuracy: 0.99 - ETA: 1:54 - loss: 0.0197 - accuracy: 0.99
- ETA: 1:53 - loss: 0.0196 - accuracy: 0.99 - ETA: 1:52 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0194 - accuracy: 0.99 -
 ETA: 1:50 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0192 - accuracy: 0.99 - ETA: 1:48 - loss: 0.0191 - accuracy: 0.99 - E
TA: 1:47 - loss: 0.0189 - accuracy: 0.99 - ETA: 1:46 - loss: 0.0188 - accuracy: 0.99 - ETA: 1:46 - loss: 0.0187 - accuracy: 0.99 - ET
A: 1:45 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:44 - loss: 0.0185 - accuracy: 0.99 - ETA: 1:44 - loss: 0.0184 - accuracy: 0.99 - ETA:
1:43 - loss: 0.0183 - accuracy: 0.99 - ETA: 1:42 - loss: 0.0182 - accuracy: 0.99 - ETA: 1:41 - loss: 0.0181 - accuracy: 0.99 - ETA: 1:
40 - loss: 0.0180 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0179 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0178 - accuracy: 0.99 - ETA: 1:38
- loss: 0.0177 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0177 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0176 - accuracy: 0.99 - ETA: 1:36 -
 loss: 0.0175 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0185 - accuracy: 0.99 - ETA: 1:34 - l
oss: 0.0185 - accuracy: 0.99 - ETA: 1:33 - loss: 0.0184 - accuracy: 0.99 - ETA: 1:32 - loss: 0.0183 - accuracy: 0.99 - ETA: 1:31 - los
s: 0.0182 - accuracy: 0.99 - ETA: 1:30 - loss: 0.0181 - accuracy: 0.99 - ETA: 1:29 - loss: 0.0180 - accuracy: 0.99 - ETA: 1:28 - loss:
```

0.0191 - accuracy: 0.99 - ETA: 1:27 - loss: 0.0190 - accuracy: 0.99 - ETA: 1:26 - loss: 0.0190 - accuracy: 0.99 - ETA: 1:25 - loss: 0.

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0200 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0200 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0199 - accuracy: 0.99 - ETA: 1:23 - loss: 0.01
98 - accuracy: 0.99 - ETA: 1:22 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0196 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0196
- accuracy: 0.99 - ETA: 1:19 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0192 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0210 - a
ccuracy: 0.99 - ETA: 1:15 - loss: 0.0209 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0208 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0208 - acc
uracy: 0.99 - ETA: 1:13 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0206 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0206 - accur
acy: 0.99 - ETA: 1:10 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0204 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0212 - accurac
y: 0.99 - ETA: 1:08 - loss: 0.0211 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0210 - accuracy:
0.99 - ETA: 1:06 - loss: 0.0209 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0209 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0208 - accuracy: 0.
99 - ETA: 1:05 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0206 - accuracy: 0.99
 - ETA: 1:03 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0204 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0204 - accuracy: 0.99 -
  ETA: 1:01 - loss: 0.0203 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0202 - accuracy: 0.99 - ETA: 59s - loss: 0.0202 - accuracy: 0.9975 -
  ETA: 59s - loss: 0.0201 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0199 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - accuracy: 0.997 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - ETA: 58s - loss: 0.0200 - accuracy: 0.997 - accuracy
TA: 57s - loss: 0.0199 - accuracy: 0.997 - ETA: 56s - loss: 0.0198 - accuracy: 0.997 - ETA: 56s - loss: 0.0197 - accuracy: 0.997 - ET
A: 55s - loss: 0.0196 - accuracy: 0.997 - ETA: 54s - loss: 0.0195 - accuracy: 0.997 - ETA: 54s - loss: 0.0195 - accuracy: 0.997 - ETA:
53s - loss: 0.0194 - accuracy: 0.997 - ETA: 52s - loss: 0.0193 - accuracy: 0.997 - ETA: 52s - loss: 0.0193 - accuracy: 0.997 - ETA: 51
s - loss: 0.0192 - accuracy: 0.997 - ETA: 50s - loss: 0.0191 - accuracy: 0.997 - ETA: 50s - loss: 0.0190 - accuracy: 0.997 - ETA: 49s
   - loss: 0.0190 - accuracy: 0.997 - ETA: 48s - loss: 0.0189 - accuracy: 0.997 - ETA: 48s - loss: 0.0188 - accuracy: 0.997 - ETA: 47s -
loss: 0.0187 - accuracy: 0.997 - ETA: 47s - loss: 0.0187 - accuracy: 0.997 - ETA: 46s - loss: 0.0186 - accuracy: 0.997 - ETA: 46s - loss: 0.0187 - accuracy: 0.997 - ETA: 46s - loss: 0.0187 - accuracy: 0.997 - ETA: 46s - loss: 0.0187 - accuracy: 0.997 - ETA: 46s - loss: 0.0187 - accuracy: 0.997 - ETA: 46s - loss: 0.0187 - accuracy: 0.997 - ETA: 46s - loss: 0.0187 - accuracy: 0.997 - ETA: 46s - loss: 0.0187 - accuracy: 0.997 - ETA: 47s - loss: 0.0187 - accuracy: 0.997 - ETA: 46s - loss: 0.0187 - accuracy: 0.997 - ETA: 47s - loss: 0.0187 - accuracy: 0.997 - ETA: 46s - loss: 0.0187 - accuracy: 0.997 - ETA: 47s - loss: 0.0187 - accuracy: 0.997 - ETA: 46s - loss: 0.0187 - accuracy: 0.997 - ETA: 46s - loss: 0.0187 - accuracy: 0.997 - ETA: 46s - loss: 0.0187 - accuracy: 0.997 - ETA: 46s - loss: 0.0187 - accuracy: 0.997 - ETA: 47s - loss: 0.0187 - accuracy: 0.997 - ETA: 47s - loss: 0.0187 - accuracy: 0.997 - ETA: 47s - loss: 0.0187 - accuracy: 0.997 - ETA: 47s - loss: 0.0187 - accuracy: 0.997 - ETA: 47s - loss: 0.0187 - accuracy: 0.997 - ETA: 47s - loss: 0.0187 - accuracy: 0.997 - ETA: 47s - loss: 0.0187 - accuracy: 0.997 - ETA: 47s - loss: 0.0187 - accuracy: 0.997 - ETA: 47s - loss: 0.0187 - accuracy: 0.997 - ETA: 47s - loss: 0.0187 - accuracy: 0.997 - ETA: 47s - loss: 0.0187 - accuracy: 0.997 - ETA: 47s - loss: 0.0187 - accuracy: 0.997 - ETA: 47s - loss: 0.0187 - accuracy: 0.997 - ETA: 47s - loss: 0.0187 - accuracy: 0.997 - ETA: 47s - loss: 0.0187 - accuracy: 0.997 - ETA: 47s - loss: 0.0187 - accuracy: 0.997 - ETA: 47s - loss: 0.0187 - accuracy: 0.997 - accur
ss: 0.0185 - accuracy: 0.997 - ETA: 45s - loss: 0.0185 - accuracy: 0.997 - ETA: 45s - loss: 0.0184 - accuracy: 0.997 - ETA: 44s - los
s: 0.0183 - accuracy: 0.997 - ETA: 44s - loss: 0.0183 - accuracy: 0.997 - ETA: 43s - loss: 0.0182 - accuracy: 0.997 - ETA: 42s - loss:
0.0181 - accuracy: 0.997 - ETA: 42s - loss: 0.0181 - accuracy: 0.997 - ETA: 41s - loss: 0.0180 - accuracy: 0.997 - ETA: 41s - loss: 0.
0179 - accuracy: 0.997 - ETA: 40s - loss: 0.0179 - accuracy: 0.997 - ETA: 40s - loss: 0.0178 - accuracy: 0.997 - ETA: 40s - loss: 0.0179
78 - accuracy: 0.997 - ETA: 38s - loss: 0.0177 - accuracy: 0.997 - ETA: 37s - loss: 0.0185 - accuracy: 0.997 - ETA: 37s - loss: 0.0185 - accuracy: 0.997 - ETA: 37s - loss: 0.0183 -
 accuracy: 0.997 - ETA: 35s - loss: 0.0183 - accuracy: 0.997 - ETA: 35s - loss: 0.0182 - accuracy: 0.997 - ETA: 34s - loss: 0.0182 - a
ccuracy: 0.997 - ETA: 335 - loss: 0.0181 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 325 - loss: 0.0180 - accuracy: 0.997 - ETA: 
uracy: 0.997 - ETA: 32s - loss: 0.0188 - accuracy: 0.997 - ETA: 31s - loss: 0.0187 - accuracy: 0.997 - ETA: 31s - loss: 0.0187 - accuracy: 0.997 - ETA: 30s - loss: 0.0194 - accuracy: 0.997 - ETA: 30s - loss: 0.0193 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 20s - loss: 0.0193 - accuracy: 0.997 - ETA: 20s - loss: 0.0193 - accuracy: 0.997 - ETA: 20s - loss: 0.0193 - accuracy: 0.997 - ETA: 20s - loss: 0.0193 - accuracy: 0.997 - ETA: 20s - loss: 0.0193 - accuracy: 0.997 - ETA: 20s - loss: 0.0193 - accuracy: 0.997 - ETA: 20s - loss: 0.0193 - accuracy: 0.997 - ETA: 20s - loss: 0.0193 - accuracy: 0.997 - ETA: 20s - loss: 0.0193 - accuracy: 0.997 - ETA: 20s - loss: 0.0193 - accuracy: 0.997 - ETA: 20s - loss: 0.0193 - accuracy: 0.997 - ETA: 20s - loss: 0.0193 - accuracy: 0.997 - ETA: 20s - loss: 0.0193 - accuracy: 0.997 - ETA: 20s - loss: 0.0193 - accuracy: 0.997 - ETA: 20
y: 0.997 - ETA: 29s - loss: 0.0192 - accuracy: 0.997 - ETA: 28s - loss: 0.0199 - accuracy: 0.997 - ETA: 27s - loss: 0.0205 - accuracy:
0.997 - ETA: 27s - loss: 0.0205 - accuracy: 0.997 - ETA: 26s - loss: 0.0205 - accuracy: 0.997 - ETA: 26s - loss: 0.0204 - accuracy: 0.
A: 23s - loss: 0.0202 - accuracy: 0.997 - ETA: 22s - loss: 0.0202 - accuracy: 0.997 - ETA: 22s - loss: 0.0201 - accuracy: 0.997 - ETA:
21s - loss: 0.0201 - accuracy: 0.997 - ETA: 21s - loss: 0.0200 - accuracy: 0.997 - ETA: 20s - loss: 0.0200 - accuracy: 0.997 - ETA: 20
s - loss: 0.0200 - accuracy: 0.997 - ETA: 19s - loss: 0.0199 - accuracy: 0.997 - ETA: 19s - loss: 0.0199 - accuracy: 0.997 - ETA: 18s
 - loss: 0.0198 - accuracy: 0.997 - ETA: 18s - loss: 0.0198 - accuracy: 0.997 - ETA: 17s - loss: 0.0197 - accuracy: 0.997 - ETA: 17s -
loss: 0.0197 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 15s - lo
ss: 0.0195 - accuracy: 0.997 - ETA: 15s - loss: 0.0194 - accuracy: 0.997 - ETA: 14s - loss: 0.0194 - accuracy: 0.997 - ETA: 14s - loss
s: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0199 - accuracy: 0.997 - ETA: 13s - loss: 0.0199 - accuracy: 0.997 - ETA: 12s - loss:
0.0198 - accuracy: 0.997 - ETA: 12s - loss: 0.0198 - accuracy: 0.997 - ETA: 11s - loss: 0.0197 - accuracy: 0.997 - ETA: 11s - loss: 0.
0197 - accuracy: 0.997 - ETA: 10s - loss: 0.0196 - accuracy: 0.997 - ETA: 10s - loss: 0.0202 - accuracy: 0.997 - ETA: 9s - loss: 0.020
1 - accuracy: 0.997 - ETA: 9s - loss: 0.0201 - accuracy: 0.99 - ETA: 8s - loss: 0.0200 - accuracy: 0.99 - ETA: 8s - loss: 0.0200 - acc
uracy: 0.99 - ETA: 7s - loss: 0.0199 - accuracy: 0.99 - ETA: 7s - loss: 0.0199 - accuracy: 0.99 - ETA: 6s - loss: 0.0198 - accuracy:
  0.99 - ETA: 6s - loss: 0.0204 - accuracy: 0.99 - ETA: 6s - loss: 0.0203 - accuracy: 0.99 - ETA: 5s - loss: 0.0203 - accuracy: 0.99 -
  ETA: 5s - loss: 0.0202 - accuracy: 0.99 - ETA: 4s - loss: 0.0202 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 3s
- loss: 0.0201 - accuracy: 0.99 - ETA: 3s - loss: 0.0200 - accuracy: 0.99 - ETA: 2s - loss: 0.0200 - accuracy: 0.99 - ETA: 2s - loss:
  0.0199 - accuracy: 0.99 - ETA: 1s - loss: 0.0205 - accuracy: 0.99 - ETA: 1s - loss: 0.0204 - accuracy: 0.99 - ETA: 0s - loss: 0.0204
  - accuracy: 0.99 - ETA: 0s - loss: 0.0203 - accuracy: 0.99 - ETA: 0s - loss: 0.0203 - accuracy: 0.99 - 152s 473ms/step - loss: 0.0203
- accuracy: 0.9975 - val_loss: 0.0231 - val_accuracy: 0.9968
```

256/322 [==========>......] - ETA: 0s - loss: 0.0058 - accuracy: 1.00 - ETA: 25s - loss: 0.0056 - accuracy: 1.000 - ETA: 37s - loss: 0.0056 - accuracy: 1.000 - ETA: 45s - loss: 0.0055 - accuracy: 1.000 - ETA: 59s - loss: 0.0054 - accuracy: 1.000 - ETA: 1:11 - loss: 0.0053 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0052 - accuracy: 1.00 - ETA: 1:05 - loss: 0.0052 - accuracy: 1.00 - ETA: 1. 1:02 - loss: 0.0051 - accuracy: 1.00 - ETA: 1:01 - loss: 0.0050 - accuracy: 1.00 - ETA: 1:00 - loss: 0.0050 - accuracy: 1.00 - ETA: 1:04 - loss: 0.0049 - accuracy: 1.00 - ETA: 1:04 - loss: 0.0048 - accuracy: 1.00 - ETA: 1:05 - loss: 0.0047 - accuracy: 1.00 - ETA: 1:05 - loss: 0.0047 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0046 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0046 - accuracy: 1.00 - ETA: 1:16 - loss: 0.0045 - accuracy: 1.00 - ETA: 1:17 - loss: 0.0044 - accuracy: 1.00 - ETA: 1:16 - loss: 0.0044 - accuracy: 1.00 - ETA: 1:17 - loss: 0.0043 - accuracy: 1.00 - ETA: 1:19 - loss: 0.0043 - accuracy: 1.00 - ETA: 1:26 - loss: 0.0042 - accuracy: 1.00 - ETA: 1:25 - loss: 0.0042 - accuracy: 1.00 - ETA: 1:26 - loss: 0.0041 - accuracy: 1.00 - ETA: 1:27 - loss: 0.0041 - accuracy: 1.00 - ETA: 1:25 - loss: 0.0040 - accuracy: 1.00 - ETA: 1:26 - loss: 0.0040 - accuracy: 1.00 - ETA: 1:25 - loss: 0.0039 - accuracy: 1.00 - ETA: 1:24 - loss: 0.0039 - accuracy: 1.00 - ETA: 1:23 - loss: 0.0039 - accuracy: 1.00 - ETA: 1:22 - loss: 0.0038 - accuracy: 1.00 - ETA: 1:20 - loss: 0.0038 - accuracy: 1.00 - ETA: 1:20 - loss: 0.0037 - accuracy: 1.00 - ETA: 1:20 - loss: 0.0037 - accuracy: 1.00 - ETA: 1:20 - loss: 0.0038 - accuracy: 1.00 - ETA: 1.00 -1:21 - loss: 0.0037 - accuracy: 1.00 - ETA: 1:20 - loss: 0.0037 - accuracy: 1.00 - ETA: 1:19 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:19 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:18 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:17 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:17 - loss: 0.0035 - accuracy: 1.00 - ETA: 1:16 - loss: 0.0089 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0088 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0086 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0130 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0128 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0127 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0125 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0124 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0122 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0121 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0120 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0118 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0117 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0115 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0114 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0145 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0144 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0142 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0140 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0139 - accuracy: 0.99 - ETA: 1:87 - loss: 0.0138 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0136 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0135 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0134 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0160 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0183 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0182 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0180 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0179 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0177 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0198 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0196 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0192 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0191 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0190 - accuracy: 0.99 - ETA: 59s - loss: 0.0188 - accuracy: 0.9977 - ETA: 59s - loss: 0.0207 - accuracy: 0.997 - ETA: 58s - loss: 0.0205 - accuracy: 0.997 - ETA: 58s - loss: 0.0204 - accuracy: 0.997 - ETA: 5 7s - loss: 0.0202 - accuracy: 0.997 - ETA: 57s - loss: 0.0201 - accuracy: 0.997 - ETA: 57s - loss: 0.0199 - accuracy: 0.997 - ETA: 57s - loss: 0.0198 - accuracy: 0.997 - ETA: 56s - loss: 0.0197 - accuracy: 0.997 - ETA: 56s - loss: 0.0195 - accuracy: 0.997 - ETA: 56s loss: 0.0194 - accuracy: 0.997 - ETA: 55s - loss: 0.0192 - accuracy: 0.997 - ETA: 55s - loss: 0.0191 - accuracy: 0.997 - ETA: 55s - l oss: 0.0208 - accuracy: 0.997 - ETA: 55s - loss: 0.0206 - accuracy: 0.997 - ETA: 54s - loss: 0.0204 - accuracy: 0.997 - ETA: 54s - los s: 0.0203 - accuracy: 0.997 - ETA: 54s - loss: 0.0201 - accuracy: 0.997 - ETA: 54s - loss: 0.0200 - accuracy: 0.997 - ETA: 53s - loss: 0.0198 - accuracy: 0.997 - ETA: 53s - loss: 0.0197 - accuracy: 0.997 - ETA: 53s - loss: 0.0195 - accuracy: 0.997 - ETA: 52s - loss: 0. 0194 - accuracy: 0.997 - ETA: 52s - loss: 0.0192 - accuracy: 0.997 - ETA: 52s - loss: 0.0191 - accuracy: 0.997 - ETA: 52s - loss: 0.01 90 - accuracy: 0.997 - ETA: 52s - loss: 0.0188 - accuracy: 0.997 - ETA: 52s - loss: 0.0187 - accuracy: 0.997 - ETA: 52s - loss: 0.0185 - accuracy: 0.997 - ETA: 52s - loss: 0.0184 - accuracy: 0.99 - ETA: 28s - loss: 0.0134 - accuracy: 0.998 - ETA: 28s - loss: 0.0134 - a ccuracy: 0.998 - ETA: 28s - loss: 0.0133 - accuracy: 0.998 - ETA: 28s - loss: 0.0132 - accuracy: 0.998 - ETA: 27s - loss: 0.0132 - acc uracy: 0.998 - ETA: 27s - loss: 0.0144 - accuracy: 0.998 - ETA: 27s - loss: 0.0143 - accuracy: 0.998 - ETA: 27s - loss: 0.0141 - accuracy: 0.998 - ETA: 27s - loss: 0.0141 - accuracy: 0.998 - ETA: 27s - loss: 0.0142 - accuracy: 0.998 - ETA: 27s - loss: 0.0141 - accuracy: 0.998 - ETA: 27s - loss: 0.0142 - accuracy: 0.998 - ETA: 27s - loss: 0.0141 - accuracy: 0.998 - ETA: 27

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998 - ETA: 26s - loss: 0.0148 - accuracy: 0.998 - ETA: 25s - loss: 0.0147 - accuracy: 0.998 - ETA: 25s - loss: 0.0156 - accuracy: 0.998 - ETA: 25s - loss: 0.0157 - accuracy: 0.998 - ETA: 25s - loss: 0.0157 - accuracy: 0.998 - ETA: 25s - loss: 0.0157 - accuracy: 0.998
   - ETA: 24s - loss: 0.0154 - accuracy: 0.998 - ETA: 24s - loss: 0.0153 - accuracy: 0.998 - ETA: 24s - loss: 0.0153 - accuracy: 0.998 -
ETA: 24s - loss: 0.0152 - accuracy: 0.998 - ETA: 24s - loss: 0.0152 - accuracy: 0.998 - ETA: 24s - loss: 0.0160 - accuracy: 0.998 - ET
A: 24s - loss: 0.0160 - accuracy: 0.998 - ETA: 23s - loss: 0.0159 - accuracy: 0.998 - ETA: 23s - loss: 0.0159 - accuracy: 0.998 - ETA:
23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.0158 - accuracy: 0.998 - ETA: 23s - loss: 0.998 - ETA
s - loss: 0.0164 - accuracy: 0.998 - ETA: 22s - loss: 0.0164 - accuracy: 0.998 - ETA: 22s - loss: 0.0164 - accuracy: 0.998 - ETA: 22s
   - loss: 0.0163 - accuracy: 0.998 - ETA: 22s - loss: 0.0163 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s -
loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0161 - accuracy: 0.998 - ETA: 21s - loss: 0.0161 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.99
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s: 0.0159 - accuracy: 0.998 - ETA: 20s - loss: 0.0159 - accuracy: 0.998 - ETA: 19s - loss: 0.0158 - accuracy: 0.998 - ETA: 19s - loss:
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0156 - accuracy: 0.998 - ETA: 18s - loss: 0.0156 - accuracy: 0.998 - ETA: 18s - loss: 0.0155 - accuracy: 0.998 - ETA: 18s - loss: 0.01
 55 - accuracy: 0.998 - ETA: 17s - loss: 0.0154 - accuracy: 0.998 - ETA: 17s - loss: 0.0162 - accuracy: 0.998 - ETA: 17s - loss: 0.0170
 - accuracy: 0.997 - ETA: 17s - loss: 0.0170 - accuracy: 0.997 - ETA: 17s - loss: 0.0169 - accuracy: 0.997 - ETA: 16s - loss: 0.0169 -
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  0.99 - ETA: 7s - loss: 0.0202 - accuracy: 0.99 - ETA: 7s - loss: 0.0202 - accuracy: 0.99 - ETA: 6s - loss: 0.0201 - accuracy: 0.99 -
  ETA: 6s - loss: 0.0206 - accuracy: 0.99 - ETA: 6s - loss: 0.0206 - accuracy: 0.99 - ETA: 5s
 - loss: 0.0205 - accuracy: 0.99 - ETA: 5s - loss: 0.0205 - accuracy: 0.99 - ETA: 5s - loss: 0.0205 - accuracy: 0.99 - ETA: 5s - loss:
  0.0204 - accuracy: 0.99 - ETA: 5s - loss: 0.0204 - accuracy: 0.99 - ETA: 4s - loss: 0.0204 - accuracy: 0.99 - ETA: 4s - loss: 0.0203
   - accuracy: 0.99 - ETA: 4s - loss: 0.0203 - accuracy: 0.99 - ETA: 4s - loss: 0.0203 - accuracy: 0.99 - ETA: 4s - loss: 0.0202 - accur
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 9 - ETA: 3s - loss: 0.0206 - accuracy: 0.99 - ETA: 2s - loss: 0.0206 - accuracy: 0.99 - ETA: 2s - loss: 0.0205 - accuracy: 0.99 - ETA:
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2 - accuracy: 0.99 - ETA: 1s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s -
 Epoch 11/50
186/322 [=========>............] - ETA: 0s - loss: 0.2096 - accuracy: 0.96 - ETA: 33s - loss: 0.2021 - accuracy: 0.968 - ETA:
  42s - loss: 0.1362 - accuracy: 0.979 - ETA: 51s - loss: 0.1035 - accuracy: 0.984 - ETA: 57s - loss: 0.0840 - accuracy: 0.987 - ETA: 1:04 - loss: 0.0710 - accuracy: 0.98 - ETA: 1:07 - loss: 0.0617 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0547 - accuracy: 0.99 - ETA:
  1:06 - loss: 0.0493 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0449 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0413 - accuracy: 0.99 - ETA:
  1:08 - loss: 0.0382 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0502 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0594 - accuracy: 0.99 - ETA:
  1:03 - loss: 0.0559 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0528 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0501 - accuracy: 0.99 - ETA:
  1:02 - loss: 0.0478 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0457 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0438 - accuracy: 0.99 - ETA: 5
9s - loss: 0.0421 - accuracy: 0.9940 - ETA: 58s - loss: 0.0406 - accuracy: 0.994 - ETA: 1:00 - loss: 0.0391 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0443 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0428 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0415 - accuracy: 0.99 - ETA: 1:05
 - loss: 0.0402 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0390 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0379 - accuracy: 0.99 - ETA: 1:07 -
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0278 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0272 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:08 - loss: 0.02
 62 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0252 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0247
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 ccuracy: 0.99 - ETA: 1:07 - loss: 0.0220 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0216 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0213 - acc
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 - ETA: 1:00 - loss: 0.0203 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0201 - accuracy: 0.99 - ETA: 59s - loss: 0.0198 - accuracy: 0.9975 -
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 0.997 - ETA: 50s - loss: 0.0179 - accuracy: 0.997 - ETA: 50s - loss: 0.0178 - accuracy: 0.997 - ETA: 49s - loss: 0.0177 - accuracy: 0.
 997 - ETA: 49s - loss: 0.0176 - accuracy: 0.997 - ETA: 49s - loss: 0.0175 - accuracy: 0.997 - ETA: 49s - loss: 0.0174 - accuracy: 0.99
7 - ETA: 49s - loss: 0.0172 - accuracy: 0.997 - ETA: 49s - loss: 0.0187 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0184 - accuracy: 0.997 - ETA: 49s - loss: 0.0184 - accuracy: 0.997 - ETA: 49s - loss: 0.0183 - accuracy: 0.997 - ETA: 49s - loss: 0.0184 - accuracy: 0.997 - ETA: 49s - loss: 0.0184 - accuracy: 0.997 - ETA: 49s - loss: 0.0184 - accuracy: 0.997 - ETA: 49s - loss: 0.0184 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0.0185 - accuracy: 0.997 - ETA: 49s - loss: 0
```

y: 0.998 - ETA: 27s - loss: 0.0140 - accuracy: 0.998 - ETA: 27s - loss: 0.0140 - accuracy: 0.998 - ETA: 26s - loss: 0.0150 - accuracy: 0.998 - ETA: 26s - loss: 0.0149 - accuracy: 0.998 - ETA: 26s - loss: 0.0149 - accuracy: 0.998 - ETA: 26s - loss: 0.0148 - accuracy: 0.

ETA: 48s - loss: 0.0195 - accuracy: 0.997 - ETA: 48s - loss: 0.0194 - accuracy: 0.997 - ETA: 48s - loss: 0.0193 - accuracy: 0.997 - ET A: 47s - loss: 0.0192 - accuracy: 0.997 - ETA: 47s - loss: 0.0191 - accuracy: 0.997 - ETA: 47s - loss: 0.0190 - accuracy: 0.997 - ETA: 47s - loss: 0.0189 - accuracy: 0.997 - ETA: 47s - loss: 0.0188 - accuracy: 0.997 - ETA: 46s - loss: 0.0187 - accuracy: 0.997 - ETA: 46s - loss: 0.0186 - accuracy: 0.997 - ETA: 46s - loss: 0.0186 - accuracy: 0.997 - ETA: 46s - loss: 0.0186 - accuracy: 0.997 - ETA: 45s - loss: 0.0183 - accuracy: 0.997 - ETA: 45s - loss: 0.0182 - accuracy: 0.997 - ETA: 44s - loss: 0.0182 - accuracy: 0.997 - ETA: 44s loss: 0.0181 - accuracy: 0.997 - ETA: 44s - loss: 0.0180 - accuracy: 0.997 - ETA: 43s - loss: 0.0179 - accuracy: 0.997 - ETA: 43s - loss: 0.0180 - accuracy: 0.997 ss: 0.0178 - accuracy: 0.997 - ETA: 43s - loss: 0.0177 - accuracy: 0.997 - ETA: 42s - loss: 0.0176 - accuracy: 0.997 - ETA: 42s - loss: 0.0175 - accuracy: 0.997 - ETA: 42s - loss: 0.0174 - accuracy: 0.997 - ETA: 41s - loss: 0.0174 - accuracy: 0.0173 - accuracy: 0.997 - ETA: 41s - loss: 0.0172 - accuracy: 0.997 - ETA: 41s - loss: 0.0171 - accuracy: 0.997 - ETA: 40s - loss: 0. 0170 - accuracy: 0.997 - ETA: 40s - loss: 0.0182 - accuracy: 0.997 - ETA: 40s - loss: 0.0181 - accuracy: 0.997 - ETA: 40s - loss: 0.01 80 - accuracy: 0.997 - ETA: 40s - loss: 0.0179 - accuracy: 0.997 - ETA: 39s - loss: 0.0178 - accuracy: 0.997 - ETA: 40s - loss: 0.0177 - accuracy: 0.997 - ETA: 40s - loss: 0.0177 - accuracy: 0.997 - ETA: 39s - loss: 0.0176 - accuracy: 0.997 - ETA: 39s - loss: 0.0175 accuracy: 0.997 - ETA: 39s - loss: 0.0174 - accuracy: 0.997 - ETA: 39s - loss: 0.0173 - accuracy: 0.997 - ETA: 39s - loss: 0.0173 - accuracy: 0.997 - ETA: 39s - loss: 0.0173 - accuracy: 0.997 - ETA: 39s - loss: 0.0174 - accuracy: 0.997 - ac ccuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 38s - loss: 0.0171 - accuracy: 0.997 - ETA: 39s - loss: 0.0170 - acc uracy: 0.997 - ETA: 39s - loss: 0.0169 - accuracy: 0.998 - ETA: 39s - loss: 0.0169 - accuracy: 0.998 - ETA: 39s - loss: 0.0168 - accur acy: 0.998 - ETA: 38s - loss: 0.0167 - accuracy: 0.9980WARNING:tensorflow:Method (on train batch end) is slow compared to the batch up date (0.140030). Check your callbacks. 322/322 [===========] - ETA: 38s - loss: 0.0178 - accuracy: 0.997 - ETA: 38s - loss: 0.0177 - accuracy: 0.997 - ETA: 38s - loss: 0.0177 - accuracy: 0.997 - ETA: 38s - loss: 0.0177 - accuracy: 0.997 - ETA: 38s - loss: 0.0178 - accuracy: 0.997 - accuracy: 0.997 - ETA: 38s - loss: 0.0178 - accuracy: 0.997 - ac A: 37s - loss: 0.0176 - accuracy: 0.997 - ETA: 37s - loss: 0.0176 - accuracy: 0.997 - ETA: 37s - loss: 0.0175 - accuracy: 0.997 - ETA: 37s - loss: 0.0184 - accuracy: 0.997 - ETA: 37s - loss: 0.0183 - accuracy: 0.997 - ETA: 36s - loss: 0.0183 - accuracy: 0.997 - ETA: 36 s - loss: 0.0182 - accuracy: 0.997 - ETA: 36s - loss: 0.0181 - accuracy: 0.997 - ETA: 36s - loss: 0.0181 - accuracy: 0.997 - ETA: 35s - loss: 0.0180 - accuracy: 0.997 - ETA: 35s - loss: 0.0180 - accuracy: 0.997 - ETA: 35s - loss: 0.0179 - accuracy: 0.997 - ETA: 35s loss: 0.0187 - accuracy: 0.997 - ETA: 34s - loss: 0.0186 - accuracy: 0.997 - ETA: 34s - loss: 0.0186 - accuracy: 0.997 - ETA: 34s - lo ss: 0.0185 - accuracy: 0.997 - ETA: 34s - loss: 0.0184 - accuracy: 0.997 - ETA: 33s - loss: 0.0190 - accuracy: 0.997 - ETA: 33s - loss: 0.0192 - accuracy: 0.997 - ETA: 33s - loss: 0.0191 - accuracy: 0.997 - ETA: 33s - loss: 0.0190 - accuracy: 0.997 - ETA: 30s - loss: 0.0190 - accuracy: 0.997 - ETA: 30s - loss: 0.0190 - accuracy: 0.997 - ETA: 30s - loss: 0.0190 - accuracy: 0.997 - ETA: 30s - loss: 0.0190 - accuracy: 0.997 - ETA: 30s - loss: 0.0190 - accuracy: 0.997 - ETA: 30s - loss: 0.0190 - accuracy: 0.997 - ETA: 30s - loss: 0.0190 - accuracy: 0.997 - ETA: 30s - loss: 0.0190 - accuracy: 0.0190 - accuracy: 0.997 - ETA: 32s - loss: 0.0189 - accuracy: 0.997 - ETA: 32s - loss: 0.0189 - accuracy: 0.997 - ETA: 32s - loss: 0. 0195 - accuracy: 0.997 - ETA: 32s - loss: 0.0195 - accuracy: 0.997 - ETA: 31s - loss: 0.0194 - accuracy: 0.997 - ETA: 31s - loss: 0.01 94 - accuracy: 0.997 - ETA: 31s - loss: 0.0193 - accuracy: 0.997 - ETA: 30s - loss: 0.0193 - accuracy: 0.997 - ETA: 30s - loss: 0.0192 - accuracy: 0.997 - ETA: 30s - loss: 0.0192 - accuracy: 0.997 - ETA: 30s - loss: 0.0191 - accuracy: 0.997 - ETA: 29s - loss: 0.0190 - accuracy: 0.997 - ETA: 29s - loss: 0.0190 - accuracy: 0.997 - ETA: 29s - loss: 0.0189 - accuracy: 0.997 - ET ccuracy: 0.997 - ETA: 28s - loss: 0.0188 - accuracy: 0.997 - ETA: 28s - loss: 0.0187 - accuracy: 0.997 - ETA: 28s - loss: 0.0187 - acc uracy: 0.997 - ETA: 27s - loss: 0.0186 - accuracy: 0.997 - ETA: 27s - loss: 0.0185 - accuracy: 0.997 - ETA: 27s - loss: 0.0185 - accur acy: 0.997 - ETA: 27s - loss: 0.0184 - accuracy: 0.997 - ETA: 26s - loss: 0.0201 - accuracy: 0.997 - ETA: 26s - loss: 0.0200 - accurac y: 0.997 - ETA: 26s - loss: 0.0199 - accuracy: 0.997 - ETA: 25s - loss: 0.0199 - accuracy: 0.997 - ETA: 25s - loss: 0.0198 - accuracy: 0.997 - ETA: 25s - loss: 0.0198 - accuracy: 0.997 - ETA: 25s - loss: 0.0197 - accuracy: 0.997 - ETA: 24s - loss: 0.0197 - accuracy: 0. 997 - ETA: 24s - loss: 0.0196 - accuracy: 0.997 - ETA: 24s - loss: 0.0203 - accuracy: 0.997 - ETA: 23s - loss: 0.0202 - accuracy: 0.99 7 - ETA: 23s - loss: 0.0202 - accuracy: 0.997 - ETA: 23s - loss: 0.0208 - accuracy: 0.997 - ETA: 23s - loss: 0.0208 - accuracy: 0.997 - ETA: 22s - loss: 0.0207 - accuracy: 0.997 - ETA: 22s - loss: 0.0207 - accuracy: 0.997 - ETA: 22s - loss: 0.0206 - accuracy: 0.997 -ETA: 22s - loss: 0.0206 - accuracy: 0.997 - ETA: 21s - loss: 0.0205 - accuracy: 0.997 - ETA: 21s - loss: 0.0205 - accuracy: 0.997 - ET A: 21s - loss: 0.0204 - accuracy: 0.997 - ETA: 20s - loss: 0.0204 - accuracy: 0.997 - ETA: 20s - loss: 0.0203 - accuracy: 0.997 - ETA: 20s - loss: 0.0203 - accuracy: 0.997 - ETA: 20s - loss: 0.0202 - accuracy: 0.997 - ETA: 19s - loss: 0.0202 - accuracy: 0.997 - ETA: 19 s - loss: 0.0201 - accuracy: 0.997 - ETA: 19s - loss: 0.0200 - accuracy: 0.997 - ETA: 18s - loss: 0.0200 - accuracy: 0.997 - ETA: 18s - loss: 0.0199 - accuracy: 0.997 - ETA: 18s - loss: 0.0199 - accuracy: 0.997 - ETA: 17s - loss: 0.0198 - accuracy: 0.997 - ETA: 17s loss: 0.0198 - accuracy: 0.997 - ETA: 17s - loss: 0.0197 - accuracy: 0.997 - ETA: 17s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - lo ss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0195 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 15s - loss: 0.0194 - accuracy: 0.997 - ETA: 15s - loss: 0.0193 - accuracy: 0.997 - ETA: 14s - loss: 0.0194 - accuracy: 0.997 - ETA: 15s - loss: 0.0194 - accuracy: 0.997 - ETA: 15s - loss: 0.0194 - accuracy: 0.997 - ETA: 15s - loss: 0.0195 - accuracy: 0.997 - ETA: 14s - loss: 0.0196 - accuracy: 0.997 - ETA: 15s - loss: 0.0197 - ETA: 15 0.0192 - accuracy: 0.997 - ETA: 14s - loss: 0.0192 - accuracy: 0.997 - ETA: 14s - loss: 0.0191 - accuracy: 0.997 - ETA: 14s - loss: 0. 0190 - accuracy: 0.997 - ETA: 13s - loss: 0.0197 - accuracy: 0.997 - ETA: 13s - loss: 0.0197 - accuracy: 0.997 - ETA: 13s - loss: 0.01 96 - accuracy: 0.997 - ETA: 12s - loss: 0.0195 - accuracy: 0.997 - ETA: 12s - loss: 0.0195 - accuracy: 0.997 - ETA: 12s - loss: 0.0194 - accuracy: 0.997 - ETA: 12s - loss: 0.0194 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 accuracy: 0.997 - ETA: 11s - loss: 0.0192 - accuracy: 0.997 - ETA: 10s - loss: 0.0191 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - a ccuracy: 0.997 - ETA: 10s - loss: 0.0197 - accuracy: 0.997 - ETA: 9s - loss: 0.0197 - accuracy: 0.997 - ETA: 9s - loss: 0.0196 - accur acy: 0.99 - ETA: 9s - loss: 0.0195 - accuracy: 0.99 - ETA: 8s - loss: 0.0195 - accuracy: 0.99 - ETA: 8s - loss: 0.0201 - accuracy: 0.9 9 - ETA: 8s - loss: 0.0200 - accuracy: 0.99 - ETA: 7s - loss: 0.0200 - accuracy: 0.99 - ETA: 7s - loss: 0.0199 - accuracy: 0.99 - ETA: 7s - loss: 0.0199 - accuracy: 0.99 - ETA: 6s - loss: 0.0198 - accuracy: 0.99 - ETA: 6s - loss: 0.0198 - accuracy: 0.99 - ETA: 6s - loss s: 0.0197 - accuracy: 0.99 - ETA: 6s - loss: 0.0197 - accuracy: 0.99 - ETA: 5s - loss: 0.0196 - accuracy: 0.99 - ETA: 5s - loss: 0.019 6 - accuracy: 0.99 - ETA: 5s - loss: 0.0196 - accuracy: 0.99 - ETA: 4s - loss: 0.0195 - accuracy: 0.99 - ETA: 4s - loss: 0.0195 - accu racy: 0.99 - ETA: 4s - loss: 0.0194 - accuracy: 0.99 - ETA: 3s - loss: 0.0194 - accuracy: 0.99 - ETA: 3s - loss: 0.0193 - accuracy: 0. 99 - ETA: 3s - loss: 0.0193 - accuracy: 0.99 - ETA: 2s - loss: 0.0192 - accuracy: 0.99 - ETA: 2s - loss: 0.0192 - accuracy: 0.99 - ET A: 2s - loss: 0.0197 - accuracy: 0.99 - ETA: 1s - loss: 0.0196 - accuracy: 0.99 - ETA: 1s - loss: 0.0196 - accuracy: 0.99 - ETA: 1s loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - 109s 338ms/step - loss: 0.0200 - accuracy: 0.9975 - val_loss: 0.0 234 - val_accuracy: 0.9968 Epoch 12/50 :==>......] - ETA: 0s - loss: 0.0052 - accuracy: 1.00 - ETA: 1:06 - loss: 0.0054 - accuracy: 1.00 - ETA: 135/322 [===== 1:20 - loss: 0.0054 - accuracy: 1.00 - ETA: 1:28 - loss: 0.0054 - accuracy: 1.00 - ETA: 1:30 - loss: 0.0054 - accuracy: 1.00 - ETA: 1:29 - loss: 0.0054 - accuracy: 1.00 - ETA: 1:23 - loss: 0.0053 - accuracy: 1.00 - ETA: 1:19 - loss: 0.0053 - accuracy: 1.00 - ETA: 1:26 - loss: 0.0052 - accuracy: 1.00 - ETA: 1:33 - loss: 0.0052 - accuracy: 1.00 - ETA: 1:33 - loss: 0.0051 - accuracy: 1.00 - ETA: 1:31 - loss: 0.0051 - accuracy: 1.00 - ETA: 1:31 - loss: 0.0050 - accuracy: 1.00 - ETA: 1:33 - loss: 0.0049 - accuracy: 1.00 - ETA: 1:39 - loss: 0.0049 - accuracy: 1.00 - ETA: 1:40 - loss: 0.0048 - accuracy: 1.00 - ETA: 1:38 - loss: 0.0048 - accuracy: 1.00 - ETA: 1:35 - loss: 0.0047 - accuracy: 1.00 - ETA: 1:32 - loss: 0.0047 - accuracy: 1.00 - ETA: 1:30 - loss: 0.0046 - accuracy: 1.00 - ETA: 1:30 - loss: 0.0045 - accuracy: 1.00 - ETA: 1:30 - loss: 0.0045 - accuracy: 1.00 - ETA: 1:28 - loss: 0.0044 - accuracy: 1.00 - ETA: 1:26 - loss: 0.0044 - accuracy: 1.00 - ETA: 1:25 - loss: 0.0043 - accuracy: 1.00 - ETA: 1:25 - loss: 0.0043 - accuracy: 1.00 - ETA: 1:24 - loss: 0.0042 - accuracy: 1.00 - ETA: 1:24 - loss: 0.0042 - accuracy: 1.00 - ETA: 1:22 - loss: 0.0041 - accuracy: 1.00 - ETA: 1:22 - loss: 0.0041 - accuracy: 1.00 - ETA: 1:24 - loss: 0.0106 - accuracy: 0.99 - ETA: 1:30 - loss: 0.0103 - accuracy: 0.99 - ETA: 1:30 - loss: 0.0101 - accuracy: 0.99 - ETA: 1:30 - loss: 0.0099 - accuracy: 0.99 - ETA: 1:29 - loss: 0.0098 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0096 - accuracy: 0.99 - ETA: 1:27 - loss: 0.0094 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0144 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0192 - accuracy: 0.99 - ETA: 1:27 - loss: 0.0188 - accuracy: 0.99 - ETA: 1:27 - loss: 0.0185 - accuracy: 0.99 - ETA: 1:26 - loss: 0.0182 - accuracy: 0.99 - ETA: 1:26 - loss: 0.0220 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0214 - accuracy: 0.99 - ETA: 1:23 - loss: 0.0212 - accuracy: 0.99 - ETA: 1:23 - loss: 0.0209 - accuracy: 0.99 - ETA: 1:22 - loss: 0.0206 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0204 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0202 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0230 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0225 - accuracy: 0.99 - ETA:

1:17 - loss: 0.0222 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0220 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0247 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0247 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0247 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0236 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0241 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0239 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0239 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0239 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0229 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0237 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0235 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0229 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0220 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0215 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0216 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0206 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0208 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0206 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0207 -

```
1:04 - loss: 0.0189 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0187 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0185 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0209 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - 
  1:03 - loss: 0.0203 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0201 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0199 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0194 - accuracy: 0.9976 - ETA:
1:50 - loss: 0.0059 - accuracy: 1.00 - ETA: 1:48 - loss: 0.0058 - accuracy: 1.00 - ETA: 1:47 - loss: 0.0057 - accuracy: 1.00 - ETA: 1:
47 - loss: 0.0057 - accuracy: 1.00 - ETA: 1:49 - loss: 0.0056 - accuracy: 1.00 - ETA: 1:48 - loss: 0.0055 - accuracy: 1.00 - ETA: 1:46
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8 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0160 - accuracy: 0.998 - ETA: 38s - loss: 0.0160 - accuracy: 0.998
   - ETA: 38s - loss: 0.0159 - accuracy: 0.998 - ETA: 37s - loss: 0.0159 - accuracy: 0.998 - ETA: 37s - loss: 0.0167 - accuracy: 0.998 -
ETA: 37s - loss: 0.0166 - accuracy: 0.998 - ETA: 38s - loss: 0.0166 - accuracy: 0.998 - ETA: 38s - loss: 0.0165 - accuracy: 0.998 - ETA
A: 38s - loss: 0.0165 - accuracy: 0.998 - ETA: 38s - loss: 0.0164 - accuracy: 0.998 - ETA: 37s - loss: 0.0164 - accuracy: 0.998 - ETA:
37s - loss: 0.0163 - accuracy: 0.998 - ETA: 37s - loss: 0.0163 - accuracy: 0.998 - ETA: 37s - loss: 0.0162 - accuracy: 0.998 - ETA: 36
s - loss: 0.0161 - accuracy: 0.998 - ETA: 36s - loss: 0.0161 - accuracy: 0.998 - ETA: 36s - loss: 0.0160 - accuracy: 0.998 - ETA: 36s - loss: 0.0168 - accuracy: 0.998 - ETA: 36s - loss: 0.0176 - accuracy: 0.997 - ETA: 35s - loss: 0.0175 - accuracy: 0.997 - ETA: 35s - loss: 0.0176 - accuracy: 0.997 - ETA: 35s - loss: 0.0176 - accuracy: 0.997 - ETA: 35s - loss: 0.0176 - accuracy: 0.997 - ETA: 35s - loss: 0.0176 - accuracy: 0.997 - ETA: 35s - loss: 0.0176 - accuracy: 0.997 - ETA: 35s - loss: 0.0176 - accuracy: 0.997 - ETA: 35s - loss: 0.0176 - accuracy: 0.997 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - accuracy: 0.998 - ETA: 35s - loss: 0.0176 - acc
loss: 0.0175 - accuracy: 0.997 - ETA: 35s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.0174 - accuracy: 0.997 - ETA: 34s - loss: 0.99
ss: 0.0173 - accuracy: 0.997 - ETA: 34s - loss: 0.0173 - accuracy: 0.997 - ETA: 34s - loss: 0.0172 - accuracy: 0.998 - ETA: 33s - los
s: 0.0172 - accuracy: 0.998 - ETA: 33s - loss: 0.0171 - accuracy: 0.998 - ETA: 33s - loss: 0.0171 - accuracy: 0.998 - ETA: 32s - loss: 0.0170 - accuracy: 0.998 - ETA: 32s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 0.998 - ETA: 31s - loss: 0.0170 - accuracy: 
0169 - accuracy: 0.998 - ETA: 31s - loss: 0.0168 - accuracy: 0.998 - ETA: 30s - loss: 0.0168 - accuracy: 0.998 - ETA: 30s - loss: 0.01
75 - accuracy: 0.9979WARNING:tensorflow:Method (on_train_batch_end) is slow compared to the batch update (0.178545). Check your callba
cks.
322/322 [============] - ETA: 29s - loss: 0.0174 - accuracy: 0.997 - ETA: 29s - loss: 0.0174 - accuracy: 0.997 - ET
A: 28s - loss: 0.0173 - accuracy: 0.997 - ETA: 28s - loss: 0.0173 - accuracy: 0.997 - ETA: 28s - loss: 0.0179 - accuracy: 0.997 - ETA:
27s - loss: 0.0178 - accuracy: 0.997 - ETA: 27s - loss: 0.0178 - accuracy: 0.997 - ETA: 26s - loss: 0.0177 - accuracy: 0.997 - ETA: 26
 s - loss: 0.0184 - accuracy: 0.997 - ETA: 25s - loss: 0.0183 - accuracy: 0.997 - ETA: 25s - loss: 0.0183 - accuracy: 0.997 - ETA: 25s
   - loss: 0.0183 - accuracy: 0.997 - ETA: 24s - loss: 0.0182 - accuracy: 0.997 - ETA: 24s - loss: 0.0182 - accuracy: 0.997 - ETA: 23s -
loss: 0.0181 - accuracy: 0.997 - ETA: 23s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.0181 - accuracy: 0.997 - ETA: 22s - loss: 0.997 - ETA:
 ss: 0.0180 - accuracy: 0.997 - ETA: 22s - loss: 0.0180 - accuracy: 0.997 - ETA: 21s - loss: 0.0179 - accuracy: 0.997 - ETA: 21s - los
s: 0.0179 - accuracy: 0.997 - ETA: 20s - loss: 0.0178 - accuracy: 0.997 - ETA: 20s - loss: 0.0178 - accuracy: 0.997 - ETA: 20s - loss:
0.0177 - accuracy: 0.997 - ETA: 19s - loss: 0.0177 - accuracy: 0.997 - ETA: 19s - loss: 0.0176 - accuracy: 0.997 - ETA: 18s - loss: 0.
```

0183 - accuracy: 0.997 - ETA: 18s - loss: 0.0183 - accuracy: 0.997 - ETA: 18s - loss: 0.0182 - accuracy: 0.997 - ETA: 17s - loss: 0.0181 - accuracy: 0.997 - ETA: 17s - loss: 0.0181 - accuracy: 0.997 - ETA: 17s - loss: 0.0180 - accuracy: 0.997 - ETA: 15s - loss: 0.0180 - accuracy: 0.997 - ETA: 15s - loss: 0.0180 - accuracy: 0.997 - ETA: 15s - loss: 0.0192 - accuracy: 0.997 - ETA: 14s - loss: 0.0191 - accuracy: 0.997 - ETA: 14s - loss: 0.0197 - accuracy: 0.997 - ETA: 13s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 11s - loss: 0.0195 - accuracy: 0.997 - ETA: 11s - loss: 0.0196 - accuracy: 0.997

```
TA: 7s - loss: 0.0197 - accuracy: 0.99 - ETA: 6s - loss: 0.0202 - accuracy: 0.99 - ETA: 6s - loss: 0.0202 - accuracy: 0.99 - ETA: 5s -
loss: 0.0201 - accuracy: 0.99 - ETA: 5s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.90 - ETA: 4s - loss: 0.0201 - accuracy: 0.90 - ETA: 4s - loss: 0.0201 - accuracy: 0.90 
0200 - accuracy: 0.99 - ETA: 4s - loss: 0.0200 - accuracy: 0.99 - ETA: 3s - loss: 0.0199 - accuracy: 0.99 - ETA: 3s - loss: 0.0204 - a
ccuracy: 0.99 - ETA: 2s - loss: 0.0204 - accuracy: 0.99 - ETA: 2s - loss: 0.0203 - accuracy: 0.99 - ETA: 1s - loss: 0.0203 - accuracy:
0.99 - ETA: 1s - loss: 0.0202 - accuracy: 0.99 - ETA: 0s - loss: 0.0202 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - 151s 468ms/step - loss: 0.0201 - accuracy: 0.9975 - val_loss: 0.0231 - val_accuracy: 0.9968
Epoch 14/50
                       =======>......] - ETA: 0s - loss: 0.0049 - accuracy: 1.00 - ETA: 1:22 - loss: 0.0048 - accuracy: 1.00 - ETA:
186/322 [===
 2:07 - loss: 0.0048 - accuracy: 1.00 - ETA: 2:08 - loss: 0.0047 - accuracy: 1.00 - ETA: 1:57 - loss: 0.0046 - accuracy: 1.00 - ETA:
 1:57 - loss: 0.0045 - accuracy: 1.00 - ETA: 2:01 - loss: 0.0044 - accuracy: 1.00 - ETA: 1:57 - loss: 0.0044 - accuracy: 1.00 - ETA:
 1:54 - loss: 0.0043 - accuracy: 1.00 - ETA: 1:52 - loss: 0.0042 - accuracy: 1.00 - ETA: 1:50 - loss: 0.0041 - accuracy: 1.00 - ETA:
 1:55 - loss: 0.0041 - accuracy: 1.00 - ETA: 1:55 - loss: 0.0040 - accuracy: 1.00 - ETA: 1:53 - loss: 0.0039 - accuracy: 1.00 - ETA:
 1:50 - loss: 0.0039 - accuracy: 1.00 - ETA: 1:53 - loss: 0.0038 - accuracy: 1.00 - ETA: 1:51 - loss: 0.0038 - accuracy: 1.00 - ETA:
 1:49 - loss: 0.0153 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:46 - loss: 0.0240 - accuracy: 0.99 - ETA:
 1:47 - loss: 0.0230 - accuracy: 0.99 - ETA: 1:46 - loss: 0.0222 - accuracy: 0.99 - ETA: 1:45 - loss: 0.0214 - accuracy: 0.99 - ETA:
 1:43 - loss: 0.0208 - accuracy: 0.99 - ETA: 1:41 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:41 - loss: 0.0267 - accuracy: 0.99 - ETA:
 1:41 - loss: 0.0260 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0253 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0246 - accuracy: 0.99 - ETA:
 1:37 - loss: 0.0240 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0234 - accuracy: 0.99 - ETA: 1:41 - loss: 0.0228 - accuracy: 0.99 - ETA:
 1:42 - loss: 0.0223 - accuracy: 0.99 - ETA: 1:45 - loss: 0.0218 - accuracy: 0.99 - ETA: 1:56 - loss: 0.0214 - accuracy: 0.99 - ETA:
 1:58 - loss: 0.0209 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:57 - loss: 0.0245 - accuracy: 0.99 - ETA:
 1:56 - loss: 0.0240 - accuracy: 0.99 - ETA: 1:55 - loss: 0.0236 - accuracy: 0.99 - ETA: 1:53 - loss: 0.0232 - accuracy: 0.99 - ETA:
 1:51 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0224 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0257 - accuracy: 0.99 - ETA:
 1:48 - loss: 0.0253 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0249 - accuracy: 0.99 - ETA: 1:45 - loss: 0.0245 - accuracy: 0.99 - ETA:
 1:44 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:43 - loss: 0.0273 - accuracy: 0.99 - ETA: 1:43 - loss: 0.0269 - accuracy: 0.99 - ETA:
 1:44 - loss: 0.0265 - accuracy: 0.99 - ETA: 1:44 - loss: 0.0262 - accuracy: 0.99 - ETA: 1:44 - loss: 0.0258 - accuracy: 0.99 - ETA:
 1:45 - loss: 0.0255 - accuracy: 0.99 - ETA: 1:44 - loss: 0.0252 - accuracy: 0.99 - ETA: 1:43 - loss: 0.0248 - accuracy: 0.99 - ETA:
 1:43 - loss: 0.0245 - accuracy: 0.99 - ETA: 1:43 - loss: 0.0242 - accuracy: 0.99 - ETA: 1:42 - loss: 0.0239 - accuracy: 0.99 - ETA:
 1:41 - loss: 0.0236 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0233 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0230 - accuracy: 0.99 - ETA:
 1:39 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:41 - loss: 0.0224 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0221 - accuracy: 0.99 - ETA:
 1:53 - loss: 0.0219 - accuracy: 0.99 - ETA: 1:56 - loss: 0.0216 - accuracy: 0.99 - ETA: 1:55 - loss: 0.0213 - accuracy: 0.99 - ETA:
 1:54 - loss: 0.0211 - accuracy: 0.99 - ETA: 1:54 - loss: 0.0208 - accuracy: 0.99 - ETA: 1:54 - loss: 0.0206 - accuracy: 0.99 - ETA:
 1:53 - loss: 0.0203 - accuracy: 0.99 - ETA: 1:53 - loss: 0.0201 - accuracy: 0.99 - ETA: 1:52 - loss: 0.0199 - accuracy: 0.99 - ETA:
 1:51 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0192 - accuracy: 0.99 - ETA:
 1:49 - loss: 0.0190 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0188 - accuracy: 0.99 - ETA: 1:48 - loss: 0.0186 - accuracy: 0.99 - ETA:
 1:47 - loss: 0.0184 - accuracy: 0.99 - ETA: 1:46 - loss: 0.0182 - accuracy: 0.99 - ETA: 1:45 - loss: 0.0180 - accuracy: 0.99 - ETA:
 1:45 - loss: 0.0178 - accuracy: 0.99 - ETA: 1:44 - loss: 0.0177 - accuracy: 0.99 - ETA: 1:43 - loss: 0.0175 - accuracy: 0.99 - ETA:
 1:42 - loss: 0.0173 - accuracy: 0.99 - ETA: 1:41 - loss: 0.0172 - accuracy: 0.99 - ETA: 1:41 - loss: 0.0170 - accuracy: 0.99 - ETA:
 1:40 - loss: 0.0168 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0167 - accuracy: 0.99 - ETA: 1:38 - loss: 0.0190 - accuracy: 0.99 - ETA:
 1:38 - loss: 0.0188 - accuracy: 0.99 - ETA: 1:38 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:38 - loss: 0.0185 - accuracy: 0.99 - ETA:
 1:38 - loss: 0.0183 - accuracy: 0.99 - ETA: 1:38 - loss: 0.0181 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0180 - accuracy: 0.99 - ETA:
 1:38 - loss: 0.0178 - accuracy: 0.99 - ETA: 1:38 - loss: 0.0177 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0175 - accuracy: 0.99 - ETA:
 1:39 - loss: 0.0174 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0173 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0171 - accuracy: 0.99 - ETA:
 1:39 - loss: 0.0170 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0169 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0167 - accuracy: 0.99 - ETA:
 1:39 - loss: 0.0166 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0165 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0163 - accuracy: 0.99 - ETA:
 1:38 - loss: 0.0162 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0161 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0160 - accuracy: 0.99 - ETA:
 1:36 - loss: 0.0159 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0158 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0156 - accuracy: 0.99 - ETA:
 1:34 - loss: 0.0155 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0154 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0170 - accuracy: 0.99 - ETA:
 1:33 - loss: 0.0169 - accuracy: 0.99 - ETA: 1:33 - loss: 0.0168 - accuracy: 0.99 - ETA: 1:32 - loss: 0.0167 - accuracy: 0.99 - ETA:
 1:31 - loss: 0.0166 - accuracy: 0.99 - ETA: 1:30 - loss: 0.0165 - accuracy: 0.99 - ETA: 1:30 - loss: 0.0180 - accuracy: 0.99 - ETA:
 1:30 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:29 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:29 - loss: 0.0193 - accuracy: 0.99 - ETA:
 1:28 - loss: 0.0206 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:27 - loss: 0.0204 - accuracy: 0.99 - ETA:
 1:27 - loss: 0.0203 - accuracy: 0.99 - ETA: 1:26 - loss: 0.0203 - accuracy: 0.99 - ETA: 1:26 - loss: 0.0202 - accuracy: 0.99 - ETA:
 1:25 - loss: 0.0212 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0212 - accuracy: 0.99 - ETA: 1:23 - loss: 0.0222 - accuracy: 0.99 - ETA:
 1:23 - loss: 0.0222 - accuracy: 0.99 - ETA: 1:22 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0220 - accuracy: 0.99 - ETA:
 1:20 - loss: 0.0219 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0219 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0218 - accuracy: 0.99 - ETA:
 1:18 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0216 - accuracy: 0.99 - ETA:
 1:16 - loss: 0.0215 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0214 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0213 - accuracy: 0.99 - ETA:
 1:14 - loss: 0.0212 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0211 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0210 - accuracy: 0.99 - ETA:
 1:13 - loss: 0.0209 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0208 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0207 - accuracy: 0.99 - ETA:
 1:11 - loss: 0.0206 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0204 - accuracy: 0.99 - ETA:
 1:11 - loss: 0.0203 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0202 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0201 - accuracy: 0.99 - ETA:
 1:11 - loss: 0.0200 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0211 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0210 - accuracy: 0.99 - ETA:
 1:10 - loss: 0.0209 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0208 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0207 - accuracy: 0.99 - ETA:
 1:08 - loss: 0.0206 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0204 - accuracy: 0.99 - ETA:
 1:07 - loss: 0.0215 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0214 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0213 - accuracy: 0.99 - ETA:
 1:06 - loss: 0.0212 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0211 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0210 - accuracy: 0.99 - ETA:
 1:04 - loss: 0.0209 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0219 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0218 - accuracy: 0.99 - ETA:
 1:02 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0216 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0215 - accuracy: 0.99 - ETA:
 1:01 - loss: 0.0214 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0213 - accuracy: 0.99 - ETA: 59s - loss: 0.0222 - accuracy: 0.9971 - ETA:
 loss: 0.0217 - accuracy: 0.997 - ETA: 56s - loss: 0.0216 - accuracy: 0.997 - ETA: 55s - loss: 0.0215 - accuracy: 0.997 - ETA: 55s - lo
ss: 0.0214 - accuracy: 0.997 - ETA: 54s - loss: 0.0213 - accuracy: 0.997 - ETA: 54s - loss: 0.0213 - accuracy: 0.997 - ETA: 53s - los
s: 0.0212 - accuracy: 0.997 - ETA: 52s - loss: 0.0211 - accuracy: 0.997 - ETA: 52s - loss: 0.0210 - accuracy: 0.997 - ETA: 51s - loss:
0.0219 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 50s - loss: 0.0217 - accuracy: 0.997 - ETA: 50s - loss: 0.
0216 - accuracy: 0.997 - ETA: 49s - loss: 0.0216 - accuracy: 0.997 - ETA: 49s - loss: 0.0215 - accuracy: 0.997 - ETA: 48s - loss: 0.02
14 - accuracy: 0.997 - ETA: 47s - loss: 0.0213 - accuracy: 0.997 - ETA: 47s - loss: 0.0213 - accuracy: 0.997 - ETA: 46s - loss: 0.0212
- accuracy: 0.997 - ETA: 46s - loss: 0.0211 - accuracy: 0.997 - ETA: 45s - loss: 0.0219 - accuracy: 0.997 - ETA: 45s - loss: 0.0218 - accuracy: 0.997 - ETA: 44s - loss: 0.0217 - accuracy: 0.997 - ETA: 44s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.997 - ETA: 43s - loss: 0.99
ccuracy: 0.997 - ETA: 43s - loss: 0.0215 - accuracy: 0.997 - ETA: 42s - loss: 0.0214 - accuracy: 0.997 - ETA: 42s - loss: 0.0213 - acc
uracy: 0.997 - ETA: 41s - loss: 0.0212 - accuracy: 0.997 - ETA: 41s - loss: 0.0220 - accuracy: 0.997 - ETA: 40s - loss: 0.0219 - accur
acy: 0.997 - ETA: 40s - loss: 0.0218 - accuracy: 0.997 - ETA: 39s - loss: 0.0218 - accuracy: 0.997 - ETA: 39s - loss: 0.0217 - accurac
y: 0.997 - ETA: 39s - loss: 0.0216 - accuracy: 0.997 - ETA: 38s - loss: 0.0215 - accuracy: 0.997 - ETA: 38s - loss: 0.0215 - accuracy:
0.997 - ETA: 37s - loss: 0.0214 - accuracy: 0.997 - ETA: 37s - loss: 0.0213 - accuracy: 0.997 - ETA: 36s - loss: 0.0212 - accuracy: 0.
997 - ETA: 36s - loss: 0.0212 - accuracy: 0.997 - ETA: 35s - loss: 0.0211 - accuracy: 0.997 - ETA: 35s - loss: 0.0210 - accuracy: 0.99
7 - ETA: 35s - loss: 0.0209 - accuracy: 0.997 - ETA: 34s - loss: 0.0209 - accuracy: 0.997 - ETA: 34s - loss: 0.0208 - accuracy: 0.997
  - ETA: 34s - loss: 0.0207 - accuracy: 0.997 - ETA: 34s - loss: 0.0207 - accuracy: 0.997 - ETA: 33s - loss: 0.0206 - accuracy: 0.997 -
ETA: 33s - loss: 0.0205 - accuracy: 0.997 - ETA: 32s - loss: 0.0204 - accuracy: 0.997 - ETA: 31s - loss: 0.0204 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 32s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.020
```

acy: 0.997 - ETA: 10s - loss: 0.0200 - accuracy: 0.997 - ETA: 9s - loss: 0.0199 - accuracy: 0.997 - ETA: 9s - loss: 0.0199 - accuracy: 0.99 - ETA: 8s - loss: 0.0199 - accuracy: 0.99 - ETA: 8s - loss: 0.0198 - accuracy: 0.99 - ETA: 7s - loss: 0.0198 - accuracy: 0.99 - accuracy: 0.99 - accuracy: 0.99 - accuracy: 0.99 - accur

```
31s - loss: 0.0201 - accuracy: 0.997 - ETA: 31s - loss: 0.0200 - accuracy: 0.997 - ETA: 30s - loss: 0.0200 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 29s
  - loss: 0.0197 - accuracy: 0.997 - ETA: 29s - loss: 0.0196 - accuracy: 0.997 - ETA: 29s - loss: 0.0195 - accuracy: 0.997 - ETA: 28s -
loss: 0.0195 - accuracy: 0.997 - ETA: 28s - loss: 0.0194 - accuracy: 0.997 - ETA: 27s - loss: 0.0193 - accuracy: 0.997 - ETA: 27s - lo
ss: 0.0193 - accuracy: 0.997 - ETA: 27s - loss: 0.0192 - accuracy: 0.997 - ETA: 27s - loss: 0.0192 - accuracy: 0.997 - ETA: 26s - loss: 0.0191 - accuracy: 0.997 - ETA: 26s - loss: 0.0199 - accuracy: 0.997 - ETA: 25s - loss: 0.0198 - accuracy: 0.997 - ETA: 25s - loss:
0.0197 - accuracy: 0.997 - ETA: 25s - loss: 0.0197 - accuracy: 0.997 - ETA: 24s - loss: 0.0196 - accuracy: 0.9975WARNING:tensorflow:Me
thod (on_train_batch_end) is slow compared to the batch update (0.251071). Check your callbacks.
267/322 [==========>.....] - ETA: 24s - loss: 0.0196 - accuracy: 0.9975WARNING:tensorflow:Method (on_train_batch_end) is
slow compared to the batch update (0.251071). Check your callbacks.
268/322 [========>:----] - ETA: 23s - loss: 0.0195 - accuracy: 0.9976WARNING:tensorflow:Method (on_train_batch_end) is
slow compared to the batch update (0.179530). Check your callbacks.
A: 22s - loss: 0.0201 - accuracy: 0.997 - ETA: 21s - loss: 0.0201 - accuracy: 0.997 - ETA: 21s - loss: 0.0200 - accuracy: 0.997 - ETA:
20s - loss: 0.0200 - accuracy: 0.997 - ETA: 20s - loss: 0.0199 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19
s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0197 - accuracy: 0.997 - ETA: 18s - loss: 0.0197 - accuracy: 0.997 - ETA: 18s
  - loss: 0.0196 - accuracy: 0.997 - ETA: 17s - loss: 0.0196 - accuracy: 0.997 - ETA: 17s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s -
loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0200 - accuracy: 0.997 - ETA: 15s - loss: 0.0200 - accuracy: 0.997 - ETA: 15s - lo
ss: 0.0199 - accuracy: 0.997 - ETA: 15s - loss: 0.0199 - accuracy: 0.997 - ETA: 14s - loss: 0.0198 - accuracy: 0.997 - ETA: 14s - los
s: 0.0198 - accuracy: 0.997 - ETA: 13s - loss: 0.0197 - accuracy: 0.997 - ETA: 13s - loss: 0.0197 - accuracy: 0.997 - ETA: 13s - loss:
0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0195 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0.997 - accuracy: 0
0195 - accuracy: 0.997 - ETA: 11s - loss: 0.0194 - accuracy: 0.997 - ETA: 11s - loss: 0.0194 - accuracy: 0.997 - ETA: 10s - loss: 0.01
93 - accuracy: 0.997 - ETA: 10s - loss: 0.0205 - accuracy: 0.997 - ETA: 10s - loss: 0.0205 - accuracy: 0.997 - ETA: 9s - loss: 0.0204
- accuracy: 0.997 - ETA: 9s - loss: 0.0204 - accuracy: 0.99 - ETA: 8s - loss: 0.0203 - accuracy: 0.99 - ETA: 8s - loss: 0.0203 - accuracy: 0.99 - ETA: 8s - loss: 0.0201 - accuracy: 0.99 - ETA: 7s - loss: 0.0202 - accuracy: 0.99 - ETA: 6s - loss: 0.0201 - accuracy: 0.99 - ETA: 0.99 
99 - ETA: 6s - loss: 0.0201 - accuracy: 0.99 - ETA: 6s - loss: 0.0201 - accuracy: 0.99 - ETA: 5s - loss: 0.0200 - accuracy: 0.99 - ETA: 3s -
 loss: 0.0198 - accuracy: 0.99 - ETA: 3s - loss: 0.0198 - accuracy: 0.99 - ETA: 2s - loss: 0.0197 - accuracy: 0.99 - ETA: 2s - loss: 0.0197 - accuracy: 0.99 - ETA: 1s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0195
  - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - 168s 520ms/step - loss: 0.0201
- accuracy: 0.9975 - val_loss: 0.0233 - val_accuracy: 0.9968
Enoch 15/50
   7/322 [....
                                   ......] - ETA: 0s - loss: 0.0041 - accuracy: 1.00 - ETA: 58s - loss: 0.0043 - accuracy: 1.000 - ETA:
 1:46 - loss: 0.0044 - accuracy: 1.00 - ETA: 2:14 - loss: 0.0045 - accuracy: 1.00 - ETA: 2:25 - loss: 0.0045 - accuracy: 1.00 - ETA: 2:32 - loss: 0.0045 - accuracy: 1.00 - ETA: 2:24 - loss: 0.0045 - accuracy: 1.0000WARNING:tensorflow:Method (on_train_batch_end) is s
low compared to the batch update (0.174020). Check your callbacks.
    8/322 [.....] - ETA: 2:13 - loss: 0.0045 - accuracy: 1.0000WARNING:tensorflow:Method (on_train_batch_end) i
s slow compared to the batch update (0.151026). Check your callbacks.
  82/322 [=====>.....] - ETA: 2:07 - loss: 0.0044 - accuracy: 1.00 - ETA: 1:59 - loss: 0.0239 - accuracy: 0.99 - ET
A: 2:01 - loss: 0.0221 - accuracy: 0.99 - ETA: 2:04 - loss: 0.0206 - accuracy: 0.99 - ETA: 2:03 - loss: 0.0194 - accuracy: 0.99 - ETA:
2:04 - loss: 0.0183 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0174 - accuracy: 0.99 - ETA: 2:14 - loss: 0.0166 - accuracy: 0.99 - ETA: 2:
21 - loss: 0.0266 - accuracy: 0.99 - ETA: 2:19 - loss: 0.0254 - accuracy: 0.99 - ETA: 2:22 - loss: 0.0243 - accuracy: 0.99 - ETA: 2:29
 - loss: 0.0234 - accuracy: 0.99 - ETA: 2:40 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:43 - loss: 0.0217 - accuracy: 0.99 - ETA: 2:48 -
 loss: 0.0210 - accuracy: 0.99 - ETA: 2:51 - loss: 0.0203 - accuracy: 0.99 - ETA: 2:52 - loss: 0.0197 - accuracy: 0.99 - ETA: 2:51 - l
oss: 0.0191 - accuracy: 0.99 - ETA: 2:58 - loss: 0.0186 - accuracy: 0.99 - ETA: 3:01 - loss: 0.0181 - accuracy: 0.99 - ETA: 3:02 - los
s: 0.0176 - accuracy: 0.99 - ETA: 3:01 - loss: 0.0172 - accuracy: 0.99 - ETA: 3:02 - loss: 0.0168 - accuracy: 0.99 - ETA: 3:03 - loss:
0.0164 - accuracy: 0.99 - ETA: 3:02 - loss: 0.0160 - accuracy: 0.99 - ETA: 3:00 - loss: 0.0157 - accuracy: 0.99 - ETA: 3:06 - loss: 0.
0153 - accuracy: 0.99 - ETA: 3:06 - loss: 0.0150 - accuracy: 0.99 - ETA: 3:05 - loss: 0.0147 - accuracy: 0.99 - ETA: 3:09 - loss: 0.01
44 - accuracy: 0.99 - ETA: 3:08 - loss: 0.0141 - accuracy: 0.99 - ETA: 3:08 - loss: 0.0138 - accuracy: 0.99 - ETA: 3:11 - loss: 0.0136
- accuracy: 0.99 - ETA: 3:13 - loss: 0.0133 - accuracy: 0.99 - ETA: 3:18 - loss: 0.0131 - accuracy: 0.99 - ETA: 3:21 - loss: 0.0128 -
accuracy: 0.99 - ETA: 3:22 - loss: 0.0126 - accuracy: 0.99 - ETA: 3:23 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0164 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0161 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0165 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0167 - accuracy: 0.99 - ETA: 
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99 - ETA: 3:37 - loss: 0.0164 - accuracy: 0.99 - ETA: 3:37 - loss: 0.0162 - accuracy: 0.99 - ETA: 3:38 - loss: 0.0160 - accuracy: 0.99
- ETA: 3:36 - loss: 0.0158 - accuracy: 0.99 - ETA: 3:36 - loss: 0.0185 - accuracy: 0.99 - ETA: 3:36 - loss: 0.0183 - accuracy: 0.99 -
 ETA: 3:35 - loss: 0.0181 - accuracy: 0.99 - ETA: 3:34 - loss: 0.0179 - accuracy: 0.99 - ETA: 3:33 - loss: 0.0203 - accuracy: 0.99 - E
TA: 3:33 - loss: 0.0201 - accuracy: 0.99 - ETA: 3:32 - loss: 0.0199 - accuracy: 0.99 - ETA: 3:30 - loss: 0.0197 - accuracy: 0.99 - ET
A: 3:29 - loss: 0.0195 - accuracy: 0.99 - ETA: 3:28 - loss: 0.0193 - accuracy: 0.99 - ETA: 3:27 - loss: 0.0192 - accuracy: 0.99 - ETA:
3:26 - loss: 0.0190 - accuracy: 0.99 - ETA: 3:25 - loss: 0.0188 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0187 - accuracy: 0.99 - ETA: 3:
23 - loss: 0.0185 - accuracy: 0.99 - ETA: 3:20 - loss: 0.0183 - accuracy: 0.9977WARNING:tensorflow:Method (on_train_batch_end) is slow
compared to the batch update (0.169541). Check your callbacks.
A: 3:13 - loss: 0.0179 - accuracy: 0.99 - ETA: 3:12 - loss: 0.0177 - accuracy: 0.99 - ETA: 3:10 - loss: 0.0176 - accuracy: 0.99 - ETA:
3:09 - loss: 0.0174 - accuracy: 0.99 - ETA: 3:18 - loss: 0.0173 - accuracy: 0.99 - ETA: 3:17 - loss: 0.0171 - accuracy: 0.99 - ETA: 3:
15 - loss: 0.0170 - accuracy: 0.99 - ETA: 3:14 - loss: 0.0168 - accuracy: 0.99 - ETA: 3:12 - loss: 0.0167 - accuracy: 0.99 - ETA: 3:10
- loss: 0.0166 - accuracy: 0.99 - ETA: 3:09 - loss: 0.0164 - accuracy: 0.99 - ETA: 3:07 - loss: 0.0163 - accuracy: 0.99 - ETA: 3:04 -
 loss: 0.0161 - accuracy: 0.99 - ETA: 3:02 - loss: 0.0181 - accuracy: 0.99 - ETA: 3:00 - loss: 0.0180 - accuracy: 0.99 - ETA: 2:59 - 1
oss: 0.0178 - accuracy: 0.99 - ETA: 2:57 - loss: 0.0177 - accuracy: 0.99 - ETA: 2:55 - loss: 0.0175 - accuracy: 0.99 - ETA: 2:53 - los
s: 0.0174 - accuracy: 0.99 - ETA: 2:52 - loss: 0.0173 - accuracy: 0.99 - ETA: 2:50 - loss: 0.0171 - accuracy: 0.99 - ETA: 2:48 - loss: 0.0170 - accuracy: 0.99 - ETA: 2:46 - loss: 0.0169 - accuracy: 0.99 - ETA: 2:44 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:43 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0168 - accuracy: 
0166 - accuracy: 0.99 - ETA: 2:41 - loss: 0.0165 - accuracy: 0.99 - ETA: 2:39 - loss: 0.0164 - accuracy: 0.99 - ETA: 2:37 - loss: 0.01
63 - accuracy: 0.99 - ETA: 2:36 - loss: 0.0162 - accuracy: 0.99 - ETA: 2:34 - loss: 0.0160 - accuracy: 0.99 - ETA: 2:33 - loss: 0.0159
- accuracy: 0.99 - ETA: 2:31 - loss: 0.0158 - accuracy: 0.99 - ETA: 2:29 - loss: 0.0175 - accuracy: 0.99 - ETA: 2:28 - loss: 0.0174 - accuracy: 0.99 - ETA: 2:26 - loss: 0.0173 - accuracy: 0.99 - ETA: 2:25 - loss: 0.0172 - accuracy: 0.99 - ETA: 2:25 - loss: 0.0171 - a
ccuracy: 0.99 - ETA: 2:24 - loss: 0.0169 - accuracy: 0.99 - ETA: 2:22 - loss: 0.0168 - accuracy: 0.99 - ETA: 2:21 - loss: 0.0167 - acc
uracy: 0.99 - ETA: 2:20 - loss: 0.0166 - accuracy: 0.99 - ETA: 2:19 - loss: 0.0180 - accuracy: 0.99 - ETA: 2:18 - loss: 0.0179 - accur
acy: 0.99 - ETA: 2:18 - loss: 0.0178 - accuracy: 0.99 - ETA: 2:16 - loss: 0.0177 - accuracy: 0.99 - ETA: 2:16 - loss: 0.0176 - accuracy
y: 0.99 - ETA: 2:15 - loss: 0.0175 - accuracy: 0.99 - ETA: 2:14 - loss: 0.0200 - accuracy: 0.99 - ETA: 2:13 - loss: 0.0199 - accuracy:
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99 - ETA: 2:10 - loss: 0.0195 - accuracy: 0.99 - ETA: 2:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 2:09 - loss: 0.0193 - accuracy: 0.99
- ETA: 2:08 - loss: 0.0192 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0192 - accuracy: 0.99 - ETA: 2:05 - loss: 0.0191 - accuracy: 0.99 -
  ETA: 2:04 - loss: 0.0190 - accuracy: 0.99 - ETA: 2:03 - loss: 0.0189 - accuracy: 0.99 - ETA: 2:02 - loss: 0.0188 - accuracy: 0.99 - E
TA: 2:01 - loss: 0.0187 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0197 - accuracy: 0.99 - ET
A: 1:59 - loss: 0.0196 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:57 - loss: 0.0194 - accuracy: 0.99 - ETA:
1:57 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:56 - loss: 0.0192 - accuracy: 0.99 - ETA: 1:55 - loss: 0.0191 - accuracy: 0.99 - ETA: 1:
54 - loss: 0.0202 - accuracy: 0.99 - ETA: 1:53 - loss: 0.0201 - accuracy: 0.99 - ETA: 1:52 - loss: 0.0200 - accuracy: 0.99 - ETA: 1:51
loss: 0.0200 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0199 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0198 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:48 - loss: 0.0196 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accurac
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0.0189 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0188 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0187 - accuracy: 0.99 - ETA: 1:38 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0185 - accuracy: 0.99 - ETA: 1:36 - loss: 0.01
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- ETA: 1:12 - loss: 0.0172 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0172 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0171 - accuracy: 0.99 -
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TA: 1:07 - loss: 0.0168 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0168 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0167 - accuracy: 0.99 - ET
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1:02 - loss: 0.0164 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0164 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0163 - accuracy: 0.99 - ETA: 1:
00 - loss: 0.0162 - accuracy: 0.99 - ETA: 59s - loss: 0.0162 - accuracy: 0.9980 - ETA: 58s - loss: 0.0161 - accuracy: 0.998 - ETA: 58s
- loss: 0.0161 - accuracy: 0.998 - ETA: 57s - loss: 0.0160 - accuracy: 0.998 - ETA: 56s - loss: 0.0159 - accuracy: 0.998 - ETA: 56s -
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- accuracy: 0.997 - ETA: 43s - loss: 0.0167 - accuracy: 0.998 - ETA: 43s - loss: 0.0167 - accuracy: 0.998 - ETA: 42s - loss: 0.0166 -
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998 - ETA: 32s - loss: 0.0163 - accuracy: 0.998 - ETA: 32s - loss: 0.0163 - accuracy: 0.998 - ETA: 31s - loss: 0.0162 - accuracy: 0.99
TA: 29s - loss: 0.0161 - accuracy: 0.998 - ETA: 29s - loss: 0.0161 - accuracy: 0.998 - ETA: 28s - loss: 0.0160 - accuracy: 0.998 - ET
A: 27s - loss: 0.0160 - accuracy: 0.998 - ETA: 27s - loss: 0.0159 - accuracy: 0.998 - ETA: 26s - loss: 0.0159 - accuracy: 0.998 - ETA:
26s - loss: 0.0158 - accuracy: 0.998 - ETA: 25s - loss: 0.0158 - accuracy: 0.998 - ETA: 24s - loss: 0.0157 - accuracy: 0.998 - ETA: 24
s - loss: 0.0157 - accuracy: 0.998 - ETA: 23s - loss: 0.0156 - accuracy: 0.998 - ETA: 23s - loss: 0.0156 - accuracy: 0.998 - ETA: 22s
 - loss: 0.0156 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 21s - loss: 0.0162 - accuracy: 0.998 - ETA: 20s -
loss: 0.0161 - accuracy: 0.998 - ETA: 20s - loss: 0.0161 - accuracy: 0.998 - ETA: 19s - loss: 0.0161 - accuracy: 0.998 - ETA: 19s - lo
ss: 0.0160 - accuracy: 0.998 - ETA: 18s - loss: 0.0160 - accuracy: 0.998 - ETA: 18s - loss: 0.0159 - accuracy: 0.998 - ETA: 17s - los
s: 0.0159 - accuracy: 0.998 - ETA: 17s - loss: 0.0158 - accuracy: 0.998 - ETA: 16s - loss: 0.0158 - accuracy: 0.998 - ETA: 15s - loss:
0.0164 - accuracy: 0.998 - ETA: 15s - loss: 0.0163 - accuracy: 0.998 - ETA: 14s - loss: 0.0163 - accuracy: 0.998 - ETA: 14s - loss: 0.
0163 - accuracy: 0.9980WARNING:tensorflow:Method (on_train_batch_end) is slow compared to the batch update (0.315580). Check your call
11s - loss: 0.0172 - accuracy: 0.997 - ETA: 10s - loss: 0.0172 - accuracy: 0.997 - ETA: 9s - loss: 0.0171 - accuracy: 0.997 - ETA: 9s
 - loss: 0.0181 - accuracy: 0.99 - ETA: 8s - loss: 0.0181 - accuracy: 0.99 - ETA: 8s - loss: 0.0181 - accuracy: 0.99 - ETA: 7s - loss:
0.0180 - accuracy: 0.99 - ETA: 6s - loss: 0.0180 - accuracy: 0.99 - ETA: 6s - loss: 0.0180 - accuracy: 0.99 - ETA: 5s - loss: 0.0180 - accuracy: 0.99 - ETA: 5s - loss: 0.0180 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA:
y: 0.99 - ETA: 3s - loss: 0.0179 - accuracy: 0.99 - ETA: 2s - loss: 0.0183 - accuracy: 0.99 - ETA: 2s - loss: 0.0183 - accuracy: 0.99 - ETA: 1s - loss: 0.0183 - accuracy: 0.99 - ETA: 1s - loss: 0.0183 - accuracy: 0.99 - ETA: 0s - loss: 0.0187 - accuracy: 0.99 - ETA: 0s - loss: 0.0192 - accuracy: 0.99 - 202s 628ms/step - loss: 0.0192 - accuracy: 0.9975 - val_loss: 0.0265 - val_accuracy: 0.9968
Epoch 16/50
186/322 [=======>:......] - ETA: 0s - loss: 0.0118 - accuracy: 1.00 - ETA: 1:03 - loss: 0.0132 - accuracy: 1.00 - ETA:
 1:29 - loss: 0.0145 - accuracy: 1.00 - ETA: 1:57 - loss: 0.0154 - accuracy: 1.00 - ETA: 2:05 - loss: 0.0428 - accuracy: 0.99 - ETA:
 2:04 - loss: 0.0390 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0362 - accuracy: 0.99 - ETA: 2:05 - loss: 0.0341 - accuracy: 0.99 - ETA:
 2:05 - loss: 0.0323 - accuracy: 0.99 - ETA: 2:04 - loss: 0.0307 - accuracy: 0.99 - ETA: 2:03 - loss: 0.0292 - accuracy: 0.99 - ETA:
 2:01 - loss: 0.0278 - accuracy: 0.99 - ETA: 2:03 - loss: 0.0265 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0253 - accuracy: 0.99 - ETA:
 1:54 - loss: 0.0242 - accuracy: 0.99 - ETA: 1:52 - loss: 0.0232 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0222 - accuracy: 0.99 - ETA:
 1:51 - loss: 0.0214 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:48 - loss: 0.0294 - accuracy: 0.99 - ETA:
 1:45 - loss: 0.0283 - accuracy: 0.99 - ETA: 1:43 - loss: 0.0273 - accuracy: 0.99 - ETA: 1:44 - loss: 0.0264 - accuracy: 0.99 - ETA:
 1:45 - loss: 0.0255 - accuracy: 0.99 - ETA: 1:46 - loss: 0.0247 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0240 - accuracy: 0.99 - ETA:
 1:47 - loss: 0.0233 - accuracy: 0.99 - ETA: 1:46 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:44 - loss: 0.0220 - accuracy: 0.99 - ETA:
 1:43 - loss: 0.0215 - accuracy: 0.99 - ETA: 1:43 - loss: 0.0209 - accuracy: 0.99 - ETA: 1:42 - loss: 0.0204 - accuracy: 0.99 - ETA:
 1:40 - loss: 0.0199 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0189 - accuracy: 0.99 - ETA:
 1:40 - loss: 0.0185 - accuracy: 0.99 - ETA: 1:38 - loss: 0.0181 - accuracy: 0.99 - ETA: 1:38 - loss: 0.0177 - accuracy: 0.99 - ETA:
 1:37 - loss: 0.0174 - accuracy: 0.99 - ETA: 1:36 - loss: 0.0170 - accuracy: 0.99 - ETA: 1:36 - loss: 0.0167 - accuracy: 0.99 - ETA:
 1:36 - loss: 0.0163 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0160 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0157 - accuracy: 0.99 - ETA:
 1:34 - loss: 0.0154 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0152 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0149 - accuracy: 0.99 - ETA:
 1:33 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:32 - loss: 0.0144 - accuracy: 0.99 - ETA: 1:31 - loss: 0.0142 - accuracy: 0.99 - ETA:
 1:31 - loss: 0.0140 - accuracy: 0.99 - ETA: 1:31 - loss: 0.0137 - accuracy: 0.99 - ETA: 1:31 - loss: 0.0179 - accuracy: 0.99 - ETA:
 1:30 - loss: 0.0176 - accuracy: 0.99 - ETA: 1:29 - loss: 0.0173 - accuracy: 0.99 - ETA: 1:30 - loss: 0.0171 - accuracy: 0.99 - ETA:
 1:29 - loss: 0.0168 - accuracy: 0.99 - ETA: 1:29 - loss: 0.0166 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0164 - accuracy: 0.99 - ETA:
 1:37 - loss: 0.0162 - accuracy: 0.99 - ETA: 1:36 - loss: 0.0159 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0157 - accuracy: 0.99 - ETA:
 1:37 - loss: 0.0188 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0183 - accuracy: 0.99 - ETA:
 1:37 - loss: 0.0181 - accuracy: 0.99 - ETA: 1:38 - loss: 0.0179 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0177 - accuracy: 0.99 - ETA:
 1:42 - loss: 0.0204 - accuracy: 0.99 - ETA: 1:44 - loss: 0.0202 - accuracy: 0.99 - ETA: 1:45 - loss: 0.0200 - accuracy: 0.99 - ETA:
 1:47 - loss: 0.0198 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0196 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0194 - accuracy: 0.99 - ETA:
 1:55 - loss: 0.0192 - accuracy: 0.99 - ETA: 1:55 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:56 - loss: 0.0211 - accuracy: 0.99 - ETA:
 1:57 - loss: 0.0209 - accuracy: 0.99 - ETA: 1:57 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:57 - loss: 0.0225 - accuracy: 0.99 - ETA:
 1:57 - loss: 0.0223 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0221 - accuracy: 0.99 - ETA: 2:04 - loss: 0.0219 - accuracy: 0.99 - ETA:
 2:05 - loss: 0.0218 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0216 - accuracy: 0.99 - ETA: 2:08 - loss: 0.0215 - accuracy: 0.99 - ETA:
 2:09 - loss: 0.0213 - accuracy: 0.99 - ETA: 2:09 - loss: 0.0211 - accuracy: 0.99 - ETA: 2:08 - loss: 0.0228 - accuracy: 0.99 - ETA:
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 2:05 - loss: 0.0239 - accuracy: 0.99 - ETA: 2:05 - loss: 0.0237 - accuracy: 0.99 - ETA: 2:05 - loss: 0.0236 - accuracy: 0.99 - ETA:
         - loss: 0.0234 - accuracy: 0.99 - ETA: 2:03 - loss: 0.0233 - accuracy: 0.99 - ETA: 2:02 - loss: 0.0231 - accuracy: 0.99 -
 2:02 - loss: 0.0229 - accuracy: 0.99 - ETA: 2:01 - loss: 0.0228 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0226 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0225 -
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oss: 0.0194 - accuracy: 0.99 - ETA: 1:46 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:45 - loss: 0.0192 - accuracy: 0.99 - ETA: 1:44 - los

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2:00 - loss: 0.0220 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0218 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0215 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:57 - loss: 0.0212 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:57 - loss: 0.0212 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:57 - loss: 0.0212 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0213 - 
  1:57 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:57 - loss: 0.0226 - accuracy: 0.99 - ETA: 1:56 - loss: 0.0224 - accuracy: 0.99 - ETA:
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  1:57 - loss: 0.0218 - accuracy: 0.99 - ETA: 1:56 - loss: 0.0216 - accuracy: 0.99 - ETA: 1:56 - loss: 0.0215 - accuracy: 0.99 - ETA:
  1:55 - loss: 0.0214 - accuracy: 0.99 - ETA: 1:55 - loss: 0.0212 - accuracy: 0.99 - ETA: 1:54 - loss: 0.0211 - accuracy: 0.99 - ETA:
  1:53 - loss: 0.0209 - accuracy: 0.99 - ETA: 1:53 - loss: 0.0208 - accuracy: 0.99 - ETA: 1:52 - loss: 0.0206 - accuracy: 0.99 - ETA:
  1:51 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0204 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0202 - accuracy: 0.99 - ETA:
  1:49 - loss: 0.0201 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0200 - accuracy: 0.99 - ETA: 1:48 - loss: 0.0198 - accuracy: 0.99 - ETA:
  1:48 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0196 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0195 - accuracy: 0.99 - ETA:
  1:47 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:46 - loss: 0.0192 - accuracy: 0.99 - ETA: 1:45 - loss: 0.0191 - accuracy: 0.99 - ETA:
  1:45 - loss: 0.0190 - accuracy: 0.99 - ETA: 1:44 - loss: 0.0189 - accuracy: 0.99 - ETA: 1:44 - loss: 0.0188 - accuracy: 0.99 - ETA:
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  1:40 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0192 - accuracy: 0.99 - ETA:
  1:38 - loss: 0.0191 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0190 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0189 - accuracy: 0.99 - ETA:
  1:36 - loss: 0.0188 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0187 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0199 - accuracy: 0.99 - ETA:
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  1:30 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:29 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0193 - accuracy: 0.99 - ETA:
  1:27 - loss: 0.0192 - accuracy: 0.99 - ETA: 1:26 - loss: 0.0191 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0190 - accuracy: 0.99 - ETA:
  1:25 - loss: 0.0189 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0188 - accuracy: 0.99 - ETA: 1:23 - loss: 0.0187 - accuracy: 0.99 - ETA:
  1:22 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0185 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0196 - accuracy: 0.99 - ETA:
  1:20 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0204 - accuracy: 0.99 - ETA:
  1:17 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0212 - accuracy: 0.99 - ETA:
  1:15 - loss: 0.0211 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0210 - accuracy: 0.99 - ETA:
  1:13 - loss: 0.0209 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0208 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0207 - accuracy: 0.99 - ETA:
  1:11 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0206 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0205 - accuracy: 0.99 - ETA:
loss: 0.0208 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0206 - accuracy: 0.99 - ETA: 1:01 - lo
ss: 0.0205 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0204 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0203 - accuracy: 0.99 - ETA: 59s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0202 - accuracy: 
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96 - accuracy: 0.997 - ETA: 54s - loss: 0.0195 - accuracy: 0.997 - ETA: 53s - loss: 0.0195 - accuracy: 0.997 - ETA: 53s - loss: 0.0194
- accuracy: 0.997 - ETA: 52s - loss: 0.0202 - accuracy: 0.997 - ETA: 52s - loss: 0.0202 - accuracy: 0.997 - ETA: 51s - loss: 0.0201 -
  accuracy: 0.997 - ETA: 51s - loss: 0.0200 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - accuracy: 
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y: 0.997 - ETA: 44s - loss: 0.0208 - accuracy: 0.997 - ETA: 44s - loss: 0.0208 - accuracy: 0.997 - ETA: 43s - loss: 0.0207 - accuracy:
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997 - ETA: 41s - loss: 0.0204 - accuracy: 0.997 - ETA: 40s - loss: 0.0204 - accuracy: 0.997 - ETA: 40s - loss: 0.0203 - accuracy: 0.99
7 - ETA: 39s - loss: 0.0202 - accuracy: 0.997 - ETA: 39s - loss: 0.0202 - accuracy: 0.997 - ETA: 38s - loss: 0.0201 - accuracy: 0.997 - ETA: 38s - loss: 0.0201 - accuracy: 0.997 - ETA: 38s - loss: 0.0201 - accuracy: 0.997 - ETA: 38s - loss: 0.0201 - accuracy: 0.997 - ETA: 38s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0
ETA: 36s - loss: 0.0199 - accuracy: 0.997 - ETA: 35s - loss: 0.0198 - accuracy: 0.997 - ETA: 35s - loss: 0.0204 - accuracy: 0.997 - ET
A: 34s - loss: 0.0204 - accuracy: 0.997 - ETA: 34s - loss: 0.0203 - accuracy: 0.997 - ETA: 33s - loss: 0.0203 - accuracy: 0.997 - ETA:
33s - loss: 0.0202 - accuracy: 0.997 - ETA: 32s - loss: 0.0201 - accuracy: 0.997 - ETA: 32s - loss: 0.0200 - accuracy: 0.997 - ETA: 31s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - accuracy: 0.997 - ETA: 30s - loss: 0.0199 - a
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ss: 0.0194 - accuracy: 0.997 - ETA: 27s - loss: 0.0194 - accuracy: 0.997 - ETA: 26s - loss: 0.0193 - accuracy: 0.997 - ETA: 26s - loss: 0.0193 - accuracy: 0.997 - ETA: 26s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy:
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0189 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 21s - loss: 0.01
87 - accuracy: 0.997 - ETA: 21s - loss: 0.0194 - accuracy: 0.997 - ETA: 20s - loss: 0.0194 - accuracy: 0.997 - ETA: 20s - loss: 0.0193
- accuracy: 0.997 - ETA: 19s - loss: 0.0193 - accuracy: 0.997 - ETA: 19s - loss: 0.0192 - accuracy: 0.997 - ETA: 18s - loss: 0.0191 -
  accuracy: 0.997 - ETA: 18s - loss: 0.0191 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ac
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0.997 - ETA: 11s - loss: 0.0190 - accuracy: 0.997 - ETA: 11s - loss: 0.0189 - accuracy: 0.997 - ETA: 10s - loss: 0.0189 - accuracy: 0.
997 - ETA: 10s - loss: 0.0188 - accuracy: 0.997 - ETA: 9s - loss: 0.0194 - accuracy: 0.997 - ETA: 9s - loss: 0.0193 - accuracy: 0.99 -
ETA: 8s - loss: 0.0193 - accuracy: 0.99 - ETA: 8s - loss: 0.0199 - accuracy: 0.99 - ETA: 8s - loss: 0.0198 - accuracy: 0.99 - ETA: 7s
  - loss: 0.0198 - accuracy: 0.99 - ETA: 7s - loss: 0.0203 - accuracy: 0.99 - ETA: 6s - loss: 0.0203 - accuracy: 0.99 - ETA: 6s - loss:
0.0202 - accuracy: 0.99 - ETA: 5s - loss: 0.0207 - accuracy: 0.99 - ETA: 5s - loss: 0.0207 - accuracy: 0.99 - ETA: 5s - loss: 0.0207 -
accuracy: 0.99 - ETA: 4s - loss: 0.0206 - accuracy: 0.99 - ETA: 4s - loss: 0.0206 - accuracy: 0.99 - ETA: 3s - loss: 0.0206 - accuracy
y: 0.99 - ETA: 3s - loss: 0.0205 - accuracy: 0.99 - ETA: 2s - loss: 0.0205 - accuracy: 0.99 - ETA: 2s - loss: 0.0205 - accuracy: 0.99
  - ETA: 2s - loss: 0.0204 - accuracy: 0.99 - ETA: 1s - loss: 0.0204 - accuracy: 0.99 - ETA: 1s - loss: 0.0204 - accuracy: 0.99 - ETA:
0s - loss: 0.0203 - accuracy: 0.99 - ETA: 0s - loss: 0.0236 - accuracy: 0.99 - ETA: 0s - loss: 0.0203 - accuracy: 0.99 - 138s 428ms/s tep - loss: 0.0203 - accuracy: 0.9975 - val_loss: 0.0236 - val_accuracy: 0.9968
Enoch 17/50
186/322 [========>:.....] - ETA: 0s - loss: 0.0060 - accuracy: 1.00 - ETA: 28s - loss: 0.0057 - accuracy: 1.000 - ETA:
  1:05 - loss: 0.0055 - accuracy: 1.00 - ETA: 1:14 - loss: 0.0053 - accuracy: 1.00 - ETA: 1:17 - loss: 0.0051 - accuracy: 1.00 - ETA:
  1:17 - loss: 0.0049 - accuracy: 1.00 - ETA: 1:13 - loss: 0.0048 - accuracy: 1.00 - ETA: 1:10 - loss: 0.0046 - accuracy: 1.00 - ETA:
  1:25 - loss: 0.0045 - accuracy: 1.00 - ETA: 1:25 - loss: 0.0044 - accuracy: 1.00 - ETA: 1:22 - loss: 0.0043 - accuracy: 1.00 - ETA:
  1:19 - loss: 0.0042 - accuracy: 1.00 - ETA: 1:16 - loss: 0.0041 - accuracy: 1.00 - ETA: 1:16 - loss: 0.0040 - accuracy: 1.00 - ETA:
  1:18 - loss: 0.0039 - accuracy: 1.00 - ETA: 1:17 - loss: 0.0039 - accuracy: 1.00 - ETA: 1:14 - loss: 0.0038 - accuracy: 1.00 - ETA:
  1:12 - loss: 0.0037 - accuracy: 1.00 - ETA: 1:11 - loss: 0.0037 - accuracy: 1.00 - ETA: 1:10 - loss: 0.0036 - accuracy: 1.00 - ETA:
  1:09 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:12 - loss: 0.0035 - accuracy: 1.00 - ETA: 1:12 - loss: 0.0035 - accuracy: 1.00 - ETA:
  1:11 - loss: 0.0034 - accuracy: 1.00 - ETA: 1:10 - loss: 0.0034 - accuracy: 1.00 - ETA: 1:09 - loss: 0.0034 - accuracy: 1.00 - ETA:
  1:08 - loss: 0.0033 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0033 - accuracy: 1.00 - ETA: 1:09 - loss: 0.0109 - accuracy: 0.99 - ETA:
  1:07 - loss: 0.0106 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0104 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0101 - accuracy: 0.99 - ETA:
  1:04 - loss: 0.0099 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0097 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0095 - accuracy: 0.99 - ETA:
  1:04 - loss: 0.0094 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0199 - accuracy: 0.99 - ETA:
  1:04 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0191 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0188 - accuracy: 0.99 - ETA:
```

1:04 - loss: 0.0185 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0182 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0179 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0176 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0216 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0209 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0206 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0204 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0206 -

```
1:02 - loss: 0.0201 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0198 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0191 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0188 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - 
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997 - ETA: 35s - loss: 0.0205 - accuracy: 0.997 - ETA: 35s - loss: 0.0204 - accuracy: 0.997 - ETA: 35s - loss: 0.0203 - accuracy: 0.99
 TA: 34s - loss: 0.0201 - accuracy: 0.997 - ETA: 33s - loss: 0.0200 - accuracy: 0.997 - ETA: 33s - loss: 0.0199 - accuracy: 0.997 - ET
A: 33s - loss: 0.0208 - accuracy: 0.997 - ETA: 33s - loss: 0.0208 - accuracy: 0.997 - ETA: 32s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 
s - loss: 0.0213 - accuracy: 0.997 - ETA: 31s - loss: 0.0214 - accuracy: 0.997 - ETA: 30s - loss: 0.0211 - accuracy: 0.997 - ETA: 30s - loss: 0.0211 - accuracy: 0.997 - ETA: 20s - loss: 0.0211 - accuracy: 0.997 - ETA: 30s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s -
loss: 0.0208 - accuracy: 0.997 - ETA: 29s - loss: 0.0208 - accuracy: 0.997 - ETA: 29s - loss: 0.0207 - accuracy: 0.997 - ETA: 28s - lo
 ss: 0.0206 - accuracy: 0.997 - ETA: 28s - loss: 0.0205 - accuracy: 0.997 - ETA: 28s - loss: 0.0205 - accuracy: 0.997 - ETA: 28s - los
 s: 0.0204 - accuracy: 0.997 - ETA: 27s - loss: 0.0203 - accuracy: 0.997 - ETA: 27s - loss: 0.0202 - accuracy: 0.997 - ETA: 27s - loss:
0.0202 - accuracy: 0.997 - ETA: 27s - loss: 0.0201 - accuracy: 0.997 - ETA: 26s - loss: 0.0200 - accuracy: 0.997 - ETA: 26s - loss: 0.
0199 - accuracy: 0.997 - ETA: 26s - loss: 0.0198 - accuracy: 0.997 - ETA: 26s - loss: 0.0198 - accuracy: 0.997 - ETA: 26s - loss: 0.01
97 - accuracy: 0.997 - ETA: 25s - loss: 0.0196 - accuracy: 0.997 - ETA: 25s - loss: 0.0195 - accuracy: 0.997 - ETA: 25s - loss: 0.0195
 - accuracy: 0.997 - ETA: 25s - loss: 0.0194 - accuracy: 0.997 - ETA: 25s - loss: 0.0193 - accuracy: 0.997 - ETA: 25s - loss: 0.0192 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 24s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0200 - accuracy: 0.997 - ET
 ccuracy: 0.997 - ETA: 24s - loss: 0.0199 - accuracy: 0.997 - ETA: 24s - loss: 0.0198 - accuracy: 0.997 - ETA: 24s - loss: 0.0197 - acc
 uracy: 0.997 - ETA: 24s - loss: 0.0197 - accuracy: 0.997 - ETA: 24s - loss: 0.0196 - accuracy: 0.997 - ETA: 24s - loss: 0.0195 - accur
acy: 0.997 - ETA: 23s - loss: 0.0195 - accuracy: 0.997 - ETA: 23s - loss: 0.0194 - accuracy: 0.997 - ETA: 23s - loss: 0.0193 - accuracy
y: 0.997 - ETA: 23s - loss: 0.0193 - accuracy: 0.997 - ETA: 23s - loss: 0.0192 - accuracy: 0.997 - ETA: 23s - loss: 0.0191 - accuracy:
 0.997 - ETA: 22s - loss: 0.0199 - accuracy: 0.997 - ETA: 22s - loss: 0.0207 - accuracy: 0.997 - ETA: 22s - loss: 0.0206 - accuracy: 0.
 997 - ETA: 22s - loss: 0.0205 - accuracy: 0.997 - ETA: 22s - loss: 0.0205 - accuracy: 0.997 - ETA: 22s - loss: 0.0204 - accuracy: 0.99
7 - ETA: 22s - loss: 0.0211 - accuracy: 0.997 - ETA: 21s - loss: 0.0210 - accuracy: 0.997 - ETA: 21s - loss: 0.0210 - accuracy: 0.997
   - ETA: 21s - loss: 0.0209 - accuracy: 0.997 - ETA: 21s - loss: 0.0209 - accuracy: 0.997 - ETA: 21s - loss: 0.0208 - accuracy: 0.997 -
ETA: 20s - loss: 0.0214 - accuracy: 0.997 - ETA: 20s - loss: 0.0214 - accuracy: 0.997 - ETA: 20s - loss: 0.0213 - accuracy: 0.997 - ETA
 A: 20s - loss: 0.0218 - accuracy: 0.997 - ETA: 19s - loss: 0.0218 - accuracy: 0.997 - ETA: 19s - loss: 0.0218 - accuracy: 0.997 - ETA:
19s - loss: 0.0217 - accuracy: 0.997 - ETA: 19s - loss: 0.0217 - accuracy: 0.997 - ETA: 18s - loss: 0.0216 - accuracy: 0.997 - ETA: 18
s - loss: 0.0216 - accuracy: 0.997 - ETA: 18s - loss: 0.0215 - accuracy: 0.997 - ETA: 17s - loss: 0.0215 - accuracy: 0.997 - ETA: 17s - loss: 0.0214 - accuracy: 0.997 - ETA: 17s - loss: 0.0214 - accuracy: 0.997 - ETA: 17s - loss: 0.0214 - accuracy: 0.997 - ETA: 17s - loss: 0.0214 - accuracy: 0.997 - ETA: 17s - loss: 0.0214 - accuracy: 0.997 - ETA: 17s - loss: 0.0214 - accuracy: 0.997 - ETA: 17s - loss: 0.0214 - accuracy: 0.997 - ETA: 17s - loss: 0.0214 - accuracy: 0.997 - ETA: 17s - loss: 0.0215 - accuracy: 0.997 - ETA: 17s - loss: 0.0216 - accuracy: 0.997 - ETA: 17s - loss: 0.0216 - accuracy: 0.997 - ETA: 17s - loss: 0.0217 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - acc
 loss: 0.0213 - accuracy: 0.997 - ETA: 16s - loss: 0.0212 - accuracy: 0.997 - ETA: 16s - loss: 0.0212 - accuracy: 0.997 - ETA: 15s - lo
 ss: 0.0211 - accuracy: 0.997 - ETA: 15s - loss: 0.0210 - accuracy: 0.997 - ETA: 15s - loss: 0.0210 - accuracy: 0.997 - ETA: 15s - los
 s: 0.0209 - accuracy: 0.997 - ETA: 14s - loss: 0.0209 - accuracy: 0.997 - ETA: 14s - loss: 0.0208 - accuracy: 0.997 - ETA: 14s - loss:
0.0207 - accuracy: 0.997 - ETA: 13s - loss: 0.0207 - accuracy: 0.997 - ETA: 13s - loss: 0.0206 - accuracy: 0.997 - ETA: 13s - loss: 0.
0205 - accuracy: 0.997 - ETA: 13s - loss: 0.0205 - accuracy: 0.997 - ETA: 12s - loss: 0.0204 - accuracy: 0.997 - ETA: 12s - loss: 0.0204 - accuracy: 0.997 - ETA: 12s - loss: 0.0202 - accuracy: 0.997 - ETA: 12s - loss: 0.0202
 - accuracy: 0.997 - ETA: 11s - loss: 0.0201 - accuracy: 0.997 - ETA: 11s - loss: 0.0200 - accuracy: 0.997 - ETA: 10s - loss: 0.0200 - accuracy: 0.997 - ETA: 10s - loss: 0.0199 - accuracy: 0.997 - ETA: 10s - loss: 0.0199 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 0.0198 - accuracy: 0.997 - ETA: 0.988 - accuracy: 0.997 - ETA: 0.988 - accuracy: 0.997 - ETA: 0.988 - accuracy: 0.997 - ETA: 0.98
 curacy: 0.997 - ETA: 9s - loss: 0.0197 - accuracy: 0.99 - ETA: 9s - loss: 0.0197 - accuracy: 0.99 - ETA: 9s - loss: 0.0196 - accuracy:
 0.99 - ETA: 8s - loss: 0.0196 - accuracy: 0.99 - ETA: 8s - loss: 0.0195 - accuracy: 0.99 - ETA: 8s - loss: 0.0194 - accuracy: 0.99 - E
 TA: 7s - loss: 0.0194 - accuracy: 0.99 - ETA: 7s - loss: 0.0193 - accuracy: 0.99 - ETA: 7s - loss: 0.0193 - accuracy: 0.99 - ETA: 6s -
 loss: 0.0192 - accuracy: 0.99 - ETA: 6s - loss: 0.0192 - accuracy: 0.99 - ETA: 6s - loss: 0.0191 - accuracy: 0.99 - ETA: 5s - loss: 0.
0191 - accuracy: 0.99 - ETA: 5s - loss: 0.0190 - accuracy: 0.99 - ETA: 5s - loss: 0.0189 - accuracy: 0.99 - ETA: 4s - loss: 0.0189 - a
 ccuracy: 0.99 - ETA: 4s - loss: 0.0188 - accuracy: 0.99 - ETA: 4s - loss: 0.0188 - accuracy: 0.99 - ETA: 4s - loss: 0.0187 - accuracy:
 0.99 - ETA: 3s - loss: 0.0187 - accuracy: 0.99 - ETA: 3s - loss: 0.0186 - accuracy: 0.99 - ETA: 3s - loss: 0.0186 - accuracy: 0.99 - E
 TA: 2s - loss: 0.0185 - accuracy: 0.99 - ETA: 2s - loss: 0.0192 - accuracy: 0.99 - ETA: 2s - loss: 0.0192 - accuracy: 0.99 - ETA: 1s -
 loss: 0.0191 - accuracy: 0.99 - ETA: 1s - loss: 0.0191 - accuracy: 0.99 - ETA: 1s - loss: 0.0190 - accuracy: 0.99 - ETA: 0s - loss: 0.
 0197 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0202 - accuracy: 0.99 - ETA: 0s - loss: 0.0202 - a
ccuracy: 0.99 - 104s 322ms/step - loss: 0.0202 - accuracy: 0.9975 - val_loss: 0.0281 - val_accuracy: 0.9968
```

Epoch 18/50

```
48/322 [===>.....] - ETA: 0s - loss: 0.0091 - accuracy: 1.00 - ETA: 47s - loss: 0.0092 - accuracy: 1.000 - ETA: 1:16 - loss: 0.0089 - accuracy: 1.00 - ETA: 1:16 - loss: 0.0084 - accuracy: 1.00 - ETA: 1:10 - loss: 0.0080 - accuracy: 1.00 - ETA:
 1:05 - loss: 0.0076 - accuracy: 1.00 - ETA: 1:01 - loss: 0.0074 - accuracy: 1.00 - ETA: 57s - loss: 0.0071 - accuracy: 1.000 - ETA: 1:02 - loss: 0.0070 - accuracy: 1.00 - ETA: 1:00 - loss: 0.0069 - accuracy: 1.00 - ETA:
 1:00 - loss: 0.0068 - accuracy: 1.00 - ETA: 1:00 - loss: 0.0067 - accuracy: 1.00 - ETA: 1:00 - loss: 0.0066 - accuracy: 1.00 - ETA: 5
9s - loss: 0.0065 - accuracy: 1.0000 - ETA: 1:03 - loss: 0.0064 - accuracy: 1.00 - ETA: 1:02 - loss: 0.0174 - accuracy: 0.99 - ETA: 1:
01 - loss: 0.0167 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0161 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0156 - accuracy: 0.99 - ETA: 59s
  - loss: 0.0151 - accuracy: 0.9985 - ETA: 59s - loss: 0.0147 - accuracy: 0.998 - ETA: 59s - loss: 0.0144 - accuracy: 0.998 - ETA: 59s
  - loss: 0.0140 - accuracy: 0.998 - ETA: 59s - loss: 0.0137 - accuracy: 0.998 - ETA: 58s - loss: 0.0133 - accuracy: 0.998 - ETA: 57s -
loss: 0.0130 - accuracy: 0.998 - ETA: 56s - loss: 0.0191 - accuracy: 0.997 - ETA: 59s - loss: 0.0186 - accuracy: 0.997 - ETA: 1:00 - 1
oss: 0.0182 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0178 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0174 - accuracy: 0.99 - ETA: 1:00 - los
s: 0.0170 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0167 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0163 - accuracy: 0.99 - ETA: 1:00 - loss:
0.0160 - accuracy: 0.99 - ETA: 59s - loss: 0.0157 - accuracy: 0.9983 - ETA: 59s - loss: 0.0199 - accuracy: 0.997 - ETA: 1:01 - loss:
  0.0196 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0192 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0188 - accuracy: 0.99 - ETA: 1:09 - loss:
  0.0185 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0182 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0179 - accuracy: 0.99 - ETA: 1:15 - loss:
  0.0176 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0173 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0171 - accuracy: 0.99 - ETA: 1:14 - loss:
 0.0168 - accuracy: 0.9980WARNING:tensorflow:Method (on train batch end) is slow compared to the batch update (0.126531). Check your c
14 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0145 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0144 - accuracy: 0.99 - ETA: 1:13
- loss: 0.0142 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0173 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0171 - accuracy: 0.99 - ETA: 1:17
loss: 0.0169 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0167 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0165 - accuracy: 0.99 - ETA: 1:121 - loss: 0.0161 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0161 - accuracy: 0.99 - ETA: 1:22 - loss: 0.0159 - accuracy: 0.99 - ETA: 1:24 - los
s: 0.0157 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0156 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0154 - accuracy: 0.99 - ETA: 1:26 - loss:
0.0152 - accuracy: 0.99 - ETA: 1:27 - loss: 0.0151 - accuracy: 0.99 - ETA: 1:29 - loss: 0.0149 - accuracy: 0.99 - ETA: 1:31 - loss: 0.
0147 - accuracy: 0.99 - ETA: 1:31 - loss: 0.0146 - accuracy: 0.99 - ETA: 1:33 - loss: 0.0144 - accuracy: 0.99 - ETA: 1:35 - loss: 0.014
43 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0141 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0140 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0139
- accuracy: 0.99 - ETA: 1:34 - loss: 0.0161 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0160 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0158 -
 accuracy: 0.99 - ETA: 1:33 - loss: 0.0157 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0155 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0154 - a
ccuracy: 0.99 - ETA: 1:35 - loss: 0.0153 - accuracy: 0.99 - ETA: 1:36 - loss: 0.0151 - accuracy: 0.99 - ETA: 1:36 - loss: 0.0150 - acc
uracy: 0.99 - ETA: 1:36 - loss: 0.0149 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0148 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0146 - accur
acy: 0.99 - ETA: 1:35 - loss: 0.0145 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0144 - accuracy: 0.99 - ETA: 1:36 - loss: 0.0162 - accuracy
y: 0.99 - ETA: 1:36 - loss: 0.0161 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0179 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0178 - accuracy:
0.99 - ETA: 1:35 - loss: 0.0176 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0175 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0192 - accuracy: 0.
99 - ETA: 1:35 - loss: 0.0191 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0190 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0189 - accuracy: 0.99
- ETA: 1:34 - loss: 0.0187 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0201 - accuracy: 0.99 -
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- accuracy: 0.997 - ETA: 20s - loss: 0.0200 - accuracy: 0.997 - ETA: 20s - loss: 0.0200 - accuracy: 0.997 - ETA: 19s - loss: 0.0199 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0197 - accuracy: 0.997 - ETA: 19s - loss: 0.0197 - accuracy: 0.997 - ETA: 19s - loss: 0.0197 - accuracy: 0.997 - ETA: 19s - loss: 0.0197 - accuracy: 0.997 - ETA: 19s - loss: 0.0197 - accuracy: 0.997 - ETA: 19s - loss: 0.0197 - accuracy: 0.997 - ETA: 19s - loss: 0.0197 - accuracy: 0.997 - ETA: 19s - loss: 0.0197 - accuracy: 0.997 - ETA: 19s - loss: 0.0197 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 19s - loss: 0.0198 - accuracy: 0.997 - ETA: 0.997 - ETA: 0.997 - ETA: 0.997 - ETA: 0.
ccuracy: 0.997 - ETA: 18s - loss: 0.0197 - accuracy: 0.997 - ETA: 17s - loss: 0.0196 - accuracy: 0.997 - ETA: 17s - loss: 0.0195 - accuracy: 0.997 - ETA: 16s - loss: 0.0202 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 0.0201 - accuracy: 0.997 - ETA: 0.0201 - accuracy: 0.997 - ETA: 0.0201 - accuracy: 0.997
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7 - ETA: 10s - loss: 0.0194 - accuracy: 0.997 - ETA: 10s - loss: 0.0193 - accuracy: 0.997 - ETA: 10s - loss: 0.0193 - accuracy: 0.997
  - ETA: 9s - loss: 0.0192 - accuracy: 0.997 - ETA: 9s - loss: 0.0192 - accuracy: 0.99 - ETA: 8s - loss: 0.0191 - accuracy: 0.99 - ETA:
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1 - accuracy: 0.99 - ETA: 5s - loss: 0.0200 - accuracy: 0.99 - ETA: 5s - loss: 0.0200 - accuracy: 0.99 - ETA: 5s - loss: 0.0199 - accu
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A: 2s - loss: 0.0196 - accuracy: 0.99 - ETA: 1s - loss: 0.0201 - accuracy: 0.99 - ETA: 1s - loss: 0.0201 - accuracy: 0.99 - ETA: 1s -
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Enoch 19/50
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186/322 [=========>......] - ETA: 0s - loss: 0.0053 - accuracy: 1.00 - ETA: 54s - loss: 0.0054 - accuracy: 1.000 - ETA:
 1:32 - loss: 0.0053 - accuracy: 1.00 - ETA: 1:39 - loss: 0.0053 - accuracy: 1.00 - ETA: 1:36 - loss: 0.0052 - accuracy: 1.00 - ETA:
  1:35 - loss: 0.0051 - accuracy: 1.00 - ETA: 1:47 - loss: 0.0050 - accuracy: 1.00 - ETA: 1:45 - loss: 0.0280 - accuracy: 0.99 - ETA:
  1:40 - loss: 0.0255 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0234 - accuracy: 0.99 - ETA: 1:30 - loss: 0.0217 - accuracy: 0.99 - ETA:
  1:25 - loss: 0.0204 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0192 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0182 - accuracy: 0.99 - ETA:
  1:17 - loss: 0.0173 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0165 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0158 - accuracy: 0.99 - ETA:
  1:11 - loss: 0.0152 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0146 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0141 - accuracy: 0.99 - ETA:
  1:06 - loss: 0.0136 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0132 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0128 - accuracy: 0.99 - ETA:
 1:05 - loss: 0.0124 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0120 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0117 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0114 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0111 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0108 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accuracy: 0.999 - ETA: 1:02 - loss: 0.0114 - accur
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8s - loss: 0.0099 - accuracy: 0.999 - ETA: 57s - loss: 0.0097 - accuracy: 0.999 - ETA: 56s - loss: 0.0095 - accuracy: 0.999 - ETA: 56s
 - loss: 0.0093 - accuracy: 0.999 - ETA: 55s - loss: 0.0091 - accuracy: 0.999 - ETA: 55s - loss: 0.0143 - accuracy: 0.998 - ETA: 55s -
 loss: 0.0140 - accuracy: 0.998 - ETA: 56s - loss: 0.0138 - accuracy: 0.998 - ETA: 55s - loss: 0.0135 - accuracy: 0.998 - ETA: 54s - 1
oss: 0.0181 - accuracy: 0.997 - ETA: 54s - loss: 0.0178 - accuracy: 0.997 - ETA: 53s - loss: 0.0175 - accuracy: 0.997 - ETA: 53s - los
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49 - accuracy: 0.996 - ETA: 48s - loss: 0.0246 - accuracy: 0.996 - ETA: 48s - loss: 0.0243 - accuracy: 0.996 - ETA: 48s - loss: 0.0241
- accuracy: 0.996 - ETA: 48s - loss: 0.0238 - accuracy: 0.996 - ETA: 48s - loss: 0.0236 - accuracy: 0.996 - ETA: 48s - loss: 0.0233 -
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7 - ETA: 43s - loss: 0.0210 - accuracy: 0.997 - ETA: 42s - loss: 0.0208 - accuracy: 0.997 - ETA: 42s - loss: 0.0206 - accuracy: 0.997
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73 - accuracy: 0.997 - ETA: 34s - loss: 0.0172 - accuracy: 0.997 - ETA: 34s - loss: 0.0171 - accuracy: 0.997 - ETA: 34s - loss: 0.0170
- accuracy: 0.997 - ETA: 34s - loss: 0.0168 - accuracy: 0.998 - ETA: 34s - loss: 0.0167 - accuracy: 0.998 - ETA: 33s - loss: 0.0166 -
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7 - ETA: 29s - loss: 0.0188 - accuracy: 0.997 - ETA: 29s - loss: 0.0187 - accuracy: 0.997 - ETA: 29s - loss: 0.0186 - accuracy: 0.997
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72 - accuracy: 0.996 - ETA: 43s - loss: 0.0268 - accuracy: 0.996 - ETA: 42s - loss: 0.0263 - accuracy: 0.996 - ETA: 43s - loss: 0.0289 - accuracy: 0.996 - ETA: 43s - loss: 0.0289 - accuracy: 0.995 - ETA: 43s - loss: 0.0280 -
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996 - ETA: 39s - loss: 0.0273 - accuracy: 0.996 - ETA: 39s - loss: 0.0270 - accuracy: 0.996 - ETA: 39s - loss: 0.0267 - accuracy: 0.99
6 - ETA: 39s - loss: 0.0264 - accuracy: 0.996 - ETA: 39s - loss: 0.0261 - accuracy: 0.996 - ETA: 38s - loss: 0.0258 - accuracy: 0.996
    - ETA: 38s - loss: 0.0255 - accuracy: 0.996 - ETA: 38s - loss: 0.0252 - accuracy: 0.996 - ETA: 38s - loss: 0.0249 - accuracy: 0.996 -
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7 - ETA: 29s - loss: 0.0190 - accuracy: 0.997 - ETA: 29s - loss: 0.0203 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0
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 s - loss: 0.0203 - accuracy: 0.997 - ETA: 27s - loss: 0.0202 - accuracy: 0.997 - ETA: 27s - loss: 0.0201 - accuracy: 0.997 - ETA: 26s
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82 - accuracy: 0.997 - ETA: 24s - loss: 0.0181 - accuracy: 0.997 - ETA: 23s - loss: 0.0180 - accuracy: 0.997 - ETA: 23s - loss: 0.0179
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A: 18s - loss: 0.0195 - accuracy: 0.997 - ETA: 18s - loss: 0.0195 - accuracy: 0.997 - ETA: 18s - loss: 0.0202 - accuracy: 0.997 - ETA:
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loss: 0.0197 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - ETA: 16s - loss: 0.0196 - accuracy: 0.997 - accuracy: 0.997 - ETA: 16s - loss: 0.997 - accuracy: 0.997 
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 s: 0.0193 - accuracy: 0.997 - ETA: 15s - loss: 0.0192 - accuracy: 0.997 - ETA: 15s - loss: 0.0192 - accuracy: 0.997 - ETA: 15s - loss:
0.0191 - accuracy: 0.997 - ETA: 15s - loss: 0.0190 - accuracy: 0.997 - ETA: 15s - loss: 0.0190 - accuracy: 0.997 - ETA: 14s - loss: 0.
0189 - accuracy: 0.997 - ETA: 14s - loss: 0.0188 - accuracy: 0.997 - ETA: 14s - loss: 0.0188 - accuracy: 0.997 - ETA: 14s - loss: 0.01
 87 - accuracy: 0.997 - ETA: 14s - loss: 0.0186 - accuracy: 0.997 - ETA: 14s - loss: 0.0186 - accuracy: 0.997 - ETA: 14s - loss: 0.0185
   - accuracy: 0.997 - ETA: 13s - loss: 0.0184 - accuracy: 0.997 - ETA: 13s - loss: 0.0193 - accuracy: 0.997 - ETA: 13s - loss: 0.0192 -
   accuracy: 0.997 - ETA: 13s - loss: 0.0192 - accuracy: 0.997 - ETA: 13s - loss: 0.0191 - accuracy: 0.997 - ETA: 13s - loss: 0.0190 - a
 ccuracy: 0.997 - ETA: 13s - loss: 0.0190 - accuracy: 0.997 - ETA: 12s - loss: 0.0189 - accuracy: 0.997 - ETA: 12s - loss: 0.0188 - acc
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0.997 - ETA: 11s - loss: 0.0190 - accuracy: 0.997 - ETA: 10s - loss: 0.0190 - accuracy: 0.997 - ETA: 10s - loss: 0.0189 - accuracy: 0.
997 - ETA: 10s - loss: 0.0189 - accuracy: 0.997 - ETA: 10s - loss: 0.0188 - accuracy: 0.997 - ETA: 10s - loss: 0.0187 - accuracy: 0.997 - ETA: 10s - loss: 0.0187 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss: 0.0186 - accuracy: 0.997 - ETA: 10s - loss:
ETA: 9s - loss: 0.0185 - accuracy: 0.99 - ETA: 9s - loss: 0.0184 - accuracy: 0.99 - ETA: 9s - loss: 0.0184 - accuracy: 0.99 - ETA: 9s
- loss: 0.0183 - accuracy: 0.99 - ETA: 9s - loss: 0.0183 - accuracy: 0.99 - ETA: 8s - loss: 0.0182 - accuracy: 0.99 - ETA: 8s - loss: 0.0182 - accuracy: 0.99 - ETA: 8s - loss: 0.0181 - accuracy: 0.99 - ETA: 8s - loss: 0.0187 -
accuracy: 0.99 - ETA: 8s - loss: 0.0187 - accuracy: 0.99 - ETA: 8s - loss: 0.0186 - accuracy: 0.99 - ETA: 7s - loss: 0.0186 - accuracy
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    - ETA: 7s - loss: 0.0183 - accuracy: 0.99 - ETA: 7s - loss: 0.0183 - accuracy: 0.99 - ETA: 6s - loss: 0.0182 - accuracy: 0.99 - ETA:
   6s - loss: 0.0182 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.0181 - accuracy: 0.99 - ETA: 6s - loss: 0.98 - loss: 0.
 ss: 0.0187 - accuracy: 0.99 - ETA: 6s - loss: 0.0186 - accuracy: 0.99 - ETA: 6s - loss: 0.0186 - accuracy: 0.99 - ETA: 5s - loss: 0.01
 85 - accuracy: 0.99 - ETA: 5s - loss: 0.0185 - accuracy: 0.99 - ETA: 5s - loss: 0.0184 - accuracy: 0.99 - ETA: 5s - loss: 0.0184 - acc
 uracy: 0.99 - ETA: 5s - loss: 0.0183 - accuracy: 0.99 - ETA: 5s - loss: 0.0183 - accuracy: 0.99 - ETA: 4s - loss: 0.0182 - accuracy:
   0.99 - ETA: 4s - loss: 0.0182 - accuracy: 0.99 - ETA: 4s - loss: 0.0181 - accuracy: 0.99 - ETA: 4s - loss: 0.0181 - accuracy: 0.99 -
   ETA: 4s - loss: 0.0180 - accuracy: 0.99 - ETA: 4s - loss: 0.0180 - accuracy: 0.99 - ETA: 4s - loss: 0.0179 - accuracy: 0.99 - ETA: 3s
 - loss: 0.0185 - accuracy: 0.99 - ETA: 3s - loss: 0.0185 - accuracy: 0.99 - ETA: 3s - loss: 0.0191 - accuracy: 0.99 - ETA: 3s - loss:
   0.0197 - accuracy: 0.99 - ETA: 3s - loss: 0.0196 - accuracy: 0.99 - ETA: 3s - loss: 0.0196 - accuracy: 0.99 - ETA: 2s - loss: 0.0195
   - accuracy: 0.99 - ETA: 2s - loss: 0.0195 - accuracy: 0.99 - ETA: 2s - loss: 0.0195 - accuracy: 0.99 - ETA: 2s - loss: 0.0194 - accur
acy: 0.99 - ETA: 2s - loss: 0.0194 - accuracy: 0.99 - ETA: 2s - loss: 0.0194 - accuracy: 0.99 - ETA: 2s - loss: 0.0198 - accuracy: 0.99
 9 - ETA: 1s - loss: 0.0198 - accuracy: 0.99 - ETA: 1s - loss: 0.0198 - accuracy: 0.99 - ETA: 1s - loss: 0.0197 - accuracy: 0.9975322/3
 ss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.02
00 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0199 - accuracy: 0.99 - ETA: 0s - loss: 0.0204 - accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - val_accuracy: 0.99 - ETA: 0s - loss: 0.0204 - accuracy: 0.99 - ETA: 0s - loss: 0.0204 - accuracy: 0.99 - ETA: 0s - loss: 0.0204 - accuracy: 0.99 - ETA: 0s - loss: 0.0204 - accuracy: 0.99 - ETA: 0s - loss: 0.0204 - accuracy: 0.99 - ETA: 0s - loss: 0.0204 - accuracy: 0.99 - ETA: 0.
racy: 0.9968
Epoch 23/50
186/322 [=========>.......] - ETA: 0s - loss: 0.0067 - accuracy: 1.00 - ETA: 19s - loss: 0.0067 - accuracy: 1.000 - ETA: 26s - loss: 0.0064 - accuracy: 1.000 - ETA: 31s - loss: 0.0062 - accuracy: 1.000 - ETA: 41s - loss: 0.0060 - accuracy: 1.000 - ETA: 42s - loss: 0.0055 - accuracy: 1.000 - ETA: 41s
 - loss: 0.0053 - accuracy: 1.000 - ETA: 41s - loss: 0.0052 - accuracy: 1.000 - ETA: 41s - loss: 0.0050 - accuracy: 1.000 - ETA: 40s - loss: 0.0049 - accuracy: 1.000 - ETA: 40s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0046 - accuracy: 1.000 - ETA: 43s - loss: 0.0046 - accuracy: 1.000 - ETA: 43s - loss: 0.0046 - accuracy: 1.000 - ETA: 43s - loss: 0.0046 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accuracy: 1.000 - ETA: 43s - loss: 0.0048 - accur
 oss: 0.0045 - accuracy: 1.000 - ETA: 42s - loss: 0.0044 - accuracy: 1.000 - ETA: 43s - loss: 0.0044 - accuracy: 1.000 - ETA: 43s - los
s: 0.0043 - accuracy: 1.000 - ETA: 42s - loss: 0.0042 - accuracy: 1.000 - ETA: 42s - loss: 0.0041 - accuracy: 1.000 - ETA: 41s - loss:
0.0040 - accuracy: 1.000 - ETA: 42s - loss: 0.0040 - accuracy: 1.000 - ETA: 43s - loss: 0.0039 - accuracy: 1.000 - ETA: 43s - loss: 0.
 0039 - accuracy: 1.000 - ETA: 43s - loss: 0.0038 - accuracy: 1.000 - ETA: 43s - loss: 0.0038 - accuracy: 1.000 - ETA: 42s - loss: 0.00
37 - accuracy: 1.000 - ETA: 42s - loss: 0.0037 - accuracy: 1.000 - ETA: 42s - loss: 0.0111 - accuracy: 0.998 - ETA: 41s - loss: 0.0108
 - accuracy: 0.999 - ETA: 42s - loss: 0.0106 - accuracy: 0.999 - ETA: 42s - loss: 0.0103 - accuracy: 0.999 - ETA: 42s - loss: 0.0101 -
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ccuracy: 0.999 - ETA: 41s - loss: 0.0093 - accuracy: 0.999 - ETA: 40s - loss: 0.0091 - accuracy: 0.999 - ETA: 40s - loss: 0.0090 - acc
 uracy: 0.999 - ETA: 40s - loss: 0.0088 - accuracy: 0.999 - ETA: 41s - loss: 0.0087 - accuracy: 0.999 - ETA: 41s - loss: 0.0085 - accur
acy: 0.999 - ETA: 40s - loss: 0.0084 - accuracy: 0.999 - ETA: 40s - loss: 0.0130 - accuracy: 0.998 - ETA: 40s - loss: 0.0127 - accuracy
 y: 0.998 - ETA: 39s - loss: 0.0125 - accuracy: 0.998 - ETA: 39s - loss: 0.0123 - accuracy: 0.998 - ETA: 39s - loss: 0.0121 - accuracy:
 0.998 - ETA: 39s - loss: 0.0120 - accuracy: 0.998 - ETA: 39s - loss: 0.0118 - accuracy: 0.998 - ETA: 39s - loss: 0.0116 - accuracy: 0.
 998 - ETA: 39s - loss: 0.0115 - accuracy: 0.998 - ETA: 39s - loss: 0.0150 - accuracy: 0.998 - ETA: 38s - loss: 0.0148 - accuracy: 0.99
8 - ETA: 38s - loss: 0.0146 - accuracy: 0.998 - ETA: 38s - loss: 0.0144 - accuracy: 0.998 - ETA: 38s - loss: 0.0173 - accuracy: 0.997
- ETA: 38s - loss: 0.0171 - accuracy: 0.997 - ETA: 38s - loss: 0.0169 - accuracy: 0.997 - ETA: 38s - loss: 0.0167 - accuracy: 0.998 - ETA: 38s - loss: 0.0163 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0163 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0
A: 37s - loss: 0.0160 - accuracy: 0.998 - ETA: 37s - loss: 0.0158 - accuracy: 0.998 - ETA: 37s - loss: 0.0160 - accuracy: 0.997 - ETA: 37s - loss: 0.0180 - accuracy: 0.997 - ETA: 37s - loss: 0.0180 - accuracy: 0.997 - ETA: 37s - loss: 0.0180 - accuracy: 0.997 - ETA: 37s - loss: 0.0180 - accuracy: 0.997 - ETA: 37s - loss: 0.0180 - accuracy: 0.997 - ETA: 37s - loss: 0.0180 - accuracy: 0.997 - ETA: 37s - loss: 0.0180 - accuracy: 0.997 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 - accuracy: 0.998 - ETA: 37s - loss: 0.0180 
s - loss: 0.0202 - accuracy: 0.997 - ETA: 36s - loss: 0.0206 - accuracy: 0.997 - ETA: 36s - loss: 0.0198 - accuracy: 0.997 - ETA: 36s - loss: 0.0196 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0215 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - acc
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ss: 0.0226 - accuracy: 0.996 - ETA: 35s - loss: 0.0225 - accuracy: 0.996 - ETA: 35s - loss: 0.0223 - accuracy: 0.996 - ETA: 34s - loss: 0.0222 - accuracy: 0.997 - ETA: 34s - loss: 0.0220 - accuracy: 0.997 - ETA: 34s - loss: 0.0219 - accuracy: 0.997 - ETA: 34s - loss:
0.0217 - accuracy: 0.997 - ETA: 34s - loss: 0.0215 - accuracy: 0.997 - ETA: 34s - loss: 0.0214 - accuracy: 0.997 - ETA: 34s - loss: 0.
0212 - accuracy: 0.997 - ETA: 34s - loss: 0.0210 - accuracy: 0.997 - ETA: 34s - loss: 0.0209 - accuracy: 0.997 - ETA: 33s - loss: 0.02
07 - accuracy: 0.997 - ETA: 33s - loss: 0.0205 - accuracy: 0.997 - ETA: 33s - loss: 0.0203 - accuracy: 0.997 - ETA: 33s - loss: 0.0202
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 ccuracy: 0.997 - ETA: 32s - loss: 0.0209 - accuracy: 0.997 - ETA: 32s - loss: 0.0208 - accuracy: 0.997 - ETA: 32s - loss: 0.0206 - acc
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acy: 0.997 - ETA: 31s - loss: 0.0200 - accuracy: 0.997 - ETA: 31s - loss: 0.0198 - accuracy: 0.997 - ETA: 31s - loss: 0.0197 - accuracy
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997 - ETA: 30s - loss: 0.0204 - accuracy: 0.997 - ETA: 30s - loss: 0.0203 - accuracy: 0.997 - ETA: 29s - loss: 0.0201 - accuracy: 0.99
7 - ETA: 29s - loss: 0.0200 - accuracy: 0.997 - ETA: 29s - loss: 0.0199 - accuracy: 0.997 - ETA: 29s - loss: 0.0197 - accuracy: 0.997
    - ETA: 29s - loss: 0.0196 - accuracy: 0.997 - ETA: 29s - loss: 0.0195 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 -
ETA: 29s - loss: 0.0192 - accuracy: 0.997 - ETA: 28s - loss: 0.0205 - accuracy: 0.997 - ETA: 28s - loss: 0.0204 - accuracy: 0.997 - ETA
A: 28s - loss: 0.0218 - accuracy: 0.997 - ETA: 28s - loss: 0.0217 - accuracy: 0.997 - ETA: 28s - loss: 0.0216 - accuracy: 0.997 - ETA:
28s - loss: 0.0214 - accuracy: 0.997 - ETA: 28s - loss: 0.0213 - accuracy: 0.997 - ETA: 27s - loss: 0.0212 - accuracy: 0.997 - ETA: 27
s - loss: 0.0211 - accuracy: 0.997 - ETA: 27s - loss: 0.0222 - accuracy: 0.997 - ETA: 27s - loss: 0.0221 - accuracy: 0.997 - ETA: 27s - loss: 0.0220 - accuracy: 0.997 - ETA: 27s - loss: 0.0231 - accuracy: 0.996 - ETA: 27s - loss: 0.0230 - accuracy: 0.996 - ETA: 27s - loss: 0.0230 - accuracy: 0.996 - ETA: 27s - loss: 0.0230 - accuracy: 0.996 - ETA: 27s - loss: 0.0230 - accuracy: 0.996 - ETA: 27s - loss: 0.0230 - accuracy: 0.996 - ETA: 27s - loss: 0.0230 - accuracy: 0.996 - ETA: 27s - loss: 0.0230 - accuracy: 0.996 - ETA: 27s - loss: 0.0230 - accuracy: 0.996 - ETA: 27s - loss: 0.0230 - accuracy: 0.997 - ETA: 27s - loss: 0.0230 - accuracy: 0.996 - ETA: 27s - loss: 0.0230 - accuracy: 0.996 - ETA: 27s - loss: 0.0230 - accuracy: 0.997 - ETA: 27s - loss: 0.0230 - accuracy: 0.997 - ETA: 27s - loss: 0.0230 - accuracy: 0.997 - ETA: 27s - loss: 0.0230 - accuracy: 0.997 - ETA: 27s - loss: 0.0230 - accuracy: 0.997 - ETA: 27s - loss: 0.0230 - accuracy: 0.997 - ETA: 27s - loss: 0.0230 - accuracy: 0.997 - ETA: 27s - loss: 0.0230 - accuracy: 0.997 - ETA: 27s - loss: 0.0230 - accuracy: 0.997 - ETA: 27s - loss: 0.0230 - accuracy: 0.997 - ETA: 27s - loss: 0.0230 - accuracy: 0.997 - ETA: 27s - loss: 0.0230 - accuracy: 0.997 - ETA: 27s - loss: 0.0230 - accuracy: 0.997 - ETA: 27s - loss: 0.0230 - accuracy: 0.997 - ETA: 27s - loss: 0.0230 - accuracy: 0.997 - ETA: 27s - loss: 0.0230 - accuracy: 0.997 - ETA: 27s - loss: 0.0230 - accuracy: 0.997 - ETA: 27s - loss: 0.0230 - accuracy: 0.997 - ETA: 27s - loss: 0.0230 - accuracy: 0.997 - ETA: 27s - loss: 0.0230 - accuracy: 0.997 - ETA: 27s - loss: 0.0230 - accuracy: 0.997 - ETA: 27s - loss: 0.0230 - accuracy: 0.997 - ETA: 27s - loss: 0.0230 - accuracy: 0.997 - ETA: 27s - accurac
loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0227 - accuracy: 0.996 - ETA: 26s - loss: 0.0226 - accuracy: 0.996 - ETA: 26s - loss: 0.0227 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.0228 - accuracy: 0.996 - ETA: 26s - loss: 0.996 - accuracy: 0.996 - accu
ss: 0.0237 - accuracy: 0.996 - ETA: 26s - loss: 0.0236 - accuracy: 0.996 - ETA: 26s - loss: 0.0245 - accuracy: 0.996 - ETA: 26s - loss
 s: 0.0244 - accuracy: 0.996 - ETA: 25s - loss: 0.0243 - accuracy: 0.996 - ETA: 25s - loss: 0.0243 - accuracy: 0.996 - ETA: 25s - loss:
0.0242 - accuracy: 0.996 - ETA: 25s - loss: 0.0241 - accuracy: 0.996 - ETA: 25s - loss: 0.0240 - accuracy: 0.996 - ETA: 25s - loss: 0.
0239 - accuracy: 0.996 - ETA: 24s - loss: 0.0239 - accuracy: 0.996 - ETA: 24s - loss: 0.0238 - accuracy: 0.996 - ETA: 24s - loss: 0.02
37 - accuracy: 0.996 - ETA: 24s - loss: 0.0236 - accuracy: 0.996 - ETA: 24s - loss: 0.0234 - accuracy: 0.996 - ETA: 24s - loss: 0.0233
 - accuracy: 0.996 - ETA: 24s - loss: 0.0232 - accuracy: 0.996 - ETA: 23s - loss: 0.0231 - accuracy: 0.996 - ETA: 23s - loss: 0.0230 - accuracy: 0.996 - ETA: 23s - loss: 0.0240 - accuracy: 0.996 - ETA: 23s - loss: 0.0248 - a
 ccuracy: 0.996 - ETA: 23s - loss: 0.0258 - accuracy: 0.996 - ETA: 23s - loss: 0.0257 - accuracy: 0.996 - ETA: 23s - loss: 0.0256 - acc
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996 - ETA: 21s - loss: 0.0252 - accuracy: 0.996 - ETA: 21s - loss: 0.0251 - accuracy: 0.996 - ETA: 21s - loss: 0.0250 - accuracy: 0.99
6 - ETA: 21s - loss: 0.0249 - accuracy: 0.996 - ETA: 21s - loss: 0.0248 - accuracy: 0.996 - ETA: 21s - loss: 0.0256 - accuracy: 0.996
   - ETA: 20s - loss: 0.0255 - accuracy: 0.9965322/322 [==========] - ETA: 20s - loss: 0.0254 - accuracy: 0.996 - ET
 A: 20s - loss: 0.0253 - accuracy: 0.996 - ETA: 20s - loss: 0.0252 - accuracy: 0.996 - ETA: 20s - loss: 0.0251 - accuracy: 0.996 - ETA:
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20s - loss: 0.0250 - accuracy: 0.996 - ETA: 20s - loss: 0.0249 - accuracy: 0.996 - ETA: 19s - loss: 0.0248 - accuracy: 0.996 - ETA: 19

y: 0.997 - ETA: 11s - loss: 0.0192 - accuracy: 0.997 - ETA: 11s - loss: 0.0192 - accuracy: 0.997 - ETA: 11s - loss: 0.0191 - accuracy:

s - loss: 0.0247 - accuracy: 0.996 - ETA: 19s - loss: 0.0246 - accuracy: 0.996 - ETA: 19s - loss: 0.0245 - accuracy: 0.996 - ETA: 19s - loss: 0.0253 - accuracy: 0.996 - ETA: 18s - loss: 0.0252 - accuracy: 0.996 - ETA: 18s - loss: 0.0251 - accuracy: 0.996 - ETA: 0.0251 - accuracy: 0.996 loss: 0.0250 - accuracy: 0.996 - ETA: 18s - loss: 0.0249 - accuracy: 0.996 - ETA: 18s - loss: 0.0248 - accuracy: 0.996 - ETA: 18s - loss: 0.0250 - accuracy: 0.996 - accur ss: 0.0247 - accuracy: 0.996 - ETA: 18s - loss: 0.0246 - accuracy: 0.996 - ETA: 17s - loss: 0.0245 - accuracy: 0.996 - ETA: 17s - loss s: 0.0244 - accuracy: 0.996 - ETA: 17s - loss: 0.0243 - accuracy: 0.996 - ETA: 17s - loss: 0.0242 - accuracy: 0.996 - ETA: 17s - loss: 0.0241 - accuracy: 0.996 - ETA: 17s - loss: 0.0240 - accuracy: 0.996 - ETA: 17s - loss: 0.0239 - accuracy: 0.996 - ETA: 16s - loss: 0. 0238 - accuracy: 0.996 - ETA: 16s - loss: 0.0237 - accuracy: 0.996 - ETA: 16s - loss: 0.0236 - accuracy: 0.996 - ETA: 16s - loss: 0.02 35 - accuracy: 0.996 - ETA: 16s - loss: 0.0234 - accuracy: 0.996 - ETA: 16s - loss: 0.0233 - accuracy: 0.996 - ETA: 15s - loss: 0.0233 - accuracy: 0.996 - ETA: 15s - loss: 0.0232 - accuracy: 0.996 - ETA: 15s - loss: 0.0231 - accuracy: 0.996 - ETA: 15s - loss: 0.0230 accuracy: 0.996 - ETA: 15s - loss: 0.0229 - accuracy: 0.996 - ETA: 15s - loss: 0.0228 - accuracy: 0.996 - ETA: 14s - loss: 0.0227 - a ccuracy: 0.996 - ETA: 14s - loss: 0.0226 - accuracy: 0.996 - ETA: 14s - loss: 0.0225 - accuracy: 0.997 - ETA: 14s - loss: 0.0224 - acc uracy: 0.997 - ETA: 14s - loss: 0.0233 - accuracy: 0.996 - ETA: 14s - loss: 0.0232 - accuracy: 0.996 - ETA: 14s - loss: 0.0231 - accur acy: 0.996 - ETA: 13s - loss: 0.0230 - accuracy: 0.996 - ETA: 13s - loss: 0.0230 - accuracy: 0.996 - ETA: 13s - loss: 0.0229 - accuracy y: 0.996 - ETA: 13s - loss: 0.0228 - accuracy: 0.996 - ETA: 13s - loss: 0.0227 - accuracy: 0.996 - ETA: 13s - loss: 0.0226 - accuracy: 0.997 - ETA: 12s - loss: 0.0225 - accuracy: 0.997 - ETA: 12s - loss: 0.0224 - accuracy: 0.997 - ETA: 12s - loss: 0.0224 - accuracy: 0. 997 - ETA: 12s - loss: 0.0223 - accuracy: 0.997 - ETA: 12s - loss: 0.0222 - accuracy: 0.997 - ETA: 12s - loss: 0.0221 - accuracy: 0.99 7 - ETA: 12s - loss: 0.0220 - accuracy: 0.997 - ETA: 11s - loss: 0.0220 - accuracy: 0.997 - ETA: 11s - loss: 0.0219 - accuracy: 0.997 - ETA: 11s - loss: 0.0218 - accuracy: 0.997 - ETA: 11s - loss: 0.0217 - accuracy: 0.997 - ETA: 11s - loss: 0.0217 - accuracy: 0.997 -ETA: 11s - loss: 0.0216 - accuracy: 0.997 - ETA: 10s - loss: 0.0215 - accuracy: 0.997 - ETA: 10s - loss: 0.0214 - accuracy: 0.997 - ETA A: 10s - loss: 0.0214 - accuracy: 0.997 - ETA: 10s - loss: 0.0213 - accuracy: 0.997 - ETA: 10s - loss: 0.0212 - accuracy: 0.997 - ETA: 10s - loss: 0.0211 - accuracy: 0.997 - ETA: 10s - loss: 0.0211 - accuracy: 0.997 - ETA: 9s - loss: 0.0210 - accuracy: 0.997 - ETA: 9s - loss: 0.0209 - accuracy: 0.99 - ETA: 9s - loss: 0.0208 - accuracy: 0.99 - ETA: 9s - loss: 0.0208 - accuracy: 0.99 - ETA: 9s - loss: 0.0207 - accuracy: 0.99 - ETA: 9s - loss: 0.0206 - accuracy: 0.99 - ETA: 8s - loss: 0.0206 - accuracy: 0.99 - ETA: 8s - loss: 0.0205 accuracy: 0.99 - ETA: 8s - loss: 0.0204 - accuracy: 0.99 - ETA: 8s - loss: 0.0204 - accuracy: 0.99 - ETA: 8s - loss: 0.0211 - accuracy: 0.99 - ETA: 8s - loss: 0.0210 - accuracy: 0.99 - ETA: 7s - loss: 0.0209 - accuracy: 0.99 - ETA: 7s - loss: 0.0209 - accuracy: 0.99 - ETA: 7s - loss: 0.0208 - accuracy: 0.99 - ETA: 7s - loss: 0.0207 - accuracy: 0.99 - ETA: 7s - loss: 0.0207 - accuracy: 0.99 - ETA: 7s - loss: 0.0206 - accuracy: 0.99 - ETA: 6s - loss: 0.0205 - accuracy: 0.99 - ETA: 6s - lo ss: 0.0205 - accuracy: 0.99 - ETA: 6s - loss: 0.0204 - accuracy: 0.99 - ETA: 6s - loss: 0.0203 - accuracy: 0.99 - ETA: 6s - loss: 0.02 03 - accuracy: 0.99 - ETA: 6s - loss: 0.0202 - accuracy: 0.99 - ETA: 6s - loss: 0.0202 - accuracy: 0.99 - ETA: 5s - loss: 0.0201 - acc uracy: 0.99 - ETA: 5s - loss: 0.0207 - accuracy: 0.99 - ETA: 5s - loss: 0.0206 - accuracy: 0.99 - ETA: 5s - loss: 0.0206 - accuracy: 0.99 - ETA: 5s - loss: 0.0205 - accuracy: 0.99 - ETA: 5s - loss: 0.0205 - accuracy: 0.99 - ETA: 5s - loss: 0.0204 - accuracy: 0.99 -ETA: 4s - loss: 0.0204 - accuracy: 0.99 - ETA: 4s - loss: 0.0203 - accuracy: 0.99 - ETA: 4s - loss: 0.0202 - accuracy: 0.99 - ETA: 4s - loss: 0.0202 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 3s - loss: 0.0200 - accuracy: 0.99 - ETA: 3s - loss: 0.0199 - accuracy: 0.99 - ETA: 3s - loss: 0.0199 - accuracy: 0.99 - ETA: 3s - loss: 0.0198 - accuracy: 0.99 - ETA: 3s - loss: 0.0198 - accuracy: 0.99 - ETA: 3s - loss: 0.0197 - accuracy: 0.99 - ETA: 3s - loss: 0.0197 - accur acy: 0.99 - ETA: 2s - loss: 0.0196 - accuracy: 0.99 - ETA: 2s - loss: 0.0196 - accuracy: 0.99 - ETA: 2s - loss: 0.0195 - accuracy: 0.9 9 - ETA: 2s - loss: 0.0195 - accuracy: 0.99 - ETA: 2s - loss: 0.0194 - accuracy: 0.99 - ETA: 2s - loss: 0.0193 - accuracy: 0.99 - ETA: 1s - loss: 0.0193 - accuracy: 0.99 - ETA: 1s - loss: 0.0192 - accuracy: 0.99 - ETA: 1s - loss: 0.0192 - accuracy: 0.99 - ETA: 1s - loss s: 0.0191 - accuracy: 0.99 - ETA: 1s - loss: 0.0191 - accuracy: 0.99 - ETA: 1s - loss: 0.0190 - accuracy: 0.99 - ETA: 1s - loss: 0.019 0 - accuracy: 0.99 - ETA: 0s - loss: 0.0189 - accuracy: 0.99 - ETA: 0s - loss: 0.0189 - accuracy: 0.99 - ETA: 0s - loss: 0.0194 - accuracy: 0.99 - ETA: 0s -99 - ETA: 0s - loss: 0.0193 - accuracy: 0.99 - 52s 161ms/step - loss: 0.0193 - accuracy: 0.9975 - val loss: 0.0239 - val accuracy: 0.9

Epoch 24/50

186/322 [===========>...........] - ETA: 0s - loss: 0.0030 - accuracy: 1.00 - ETA: 26s - loss: 0.0030 - accuracy: 1.000 - ETA: 30s - loss: 0.0030 - accuracy: 1.000 - ETA: 32s - loss: 0.0030 - accuracy: 1.000 - ETA: 3 8s - loss: 0.0347 - accuracy: 0.994 - ETA: 38s - loss: 0.0302 - accuracy: 0.995 - ETA: 40s - loss: 0.0268 - accuracy: 0.996 - ETA: 42s - loss: 0.0242 - accuracy: 0.996 - ETA: 41s - loss: 0.0221 - accuracy: 0.996 - ETA: 42s - loss: 0.0204 - accuracy: 0.997 - ETA: 42s loss: 0.0190 - accuracy: 0.997 - ETA: 425 - loss: 0.0178 - accuracy: 0.997 - ETA: 425 - loss: 0.0168 - accuracy: 0.997 - ETA: 425 - loss: 0.0159 - accuracy: 0.997 - ETA: 425 - loss: 0.0267 - accuracy: 0.996 - ETA: 435 - loss: 0.0254 - accurac s: 0.0242 - accuracy: 0.996 - ETA: 42s - loss: 0.0232 - accuracy: 0.996 - ETA: 42s - loss: 0.0222 - accuracy: 0.996 - ETA: 41s - loss: 0.0214 - accuracy: 0.997 - ETA: 42s - loss: 0.0206 - accuracy: 0.997 - ETA: 41s - loss: 0.0199 - accuracy: 0.997 - ETA: 42s - loss: 0. 0192 - accuracy: 0.997 - ETA: 42s - loss: 0.0262 - accuracy: 0.996 - ETA: 42s - loss: 0.0318 - accuracy: 0.995 - ETA: 42s - loss: 0.03 09 - accuracy: 0.995 - ETA: 41s - loss: 0.0300 - accuracy: 0.995 - ETA: 41s - loss: 0.0292 - accuracy: 0.995 - ETA: 41s - loss: 0.0284 - accuracy: 0.995 - ETA: 41s - loss: 0.0277 - accuracy: 0.996 - ETA: 41s - loss: 0.0271 - accuracy: 0.996 - ETA: 41s - loss: 0.0265 - accuracy: 0.996 - ETA: 41s - loss: 0.0259 - accuracy: 0.996 - ETA: 41s - loss: 0.996 - ETA: 41s - loss: 0.99 ccuracy: 0.996 - ETA: 40s - loss: 0.0244 - accuracy: 0.996 - ETA: 40s - loss: 0.0239 - accuracy: 0.996 - ETA: 40s - loss: 0.0234 - acc uracy: 0.996 - ETA: 40s - loss: 0.0230 - accuracy: 0.996 - ETA: 40s - loss: 0.0225 - accuracy: 0.997 - ETA: 40s - loss: 0.0221 - accur acy: 0.997 - ETA: 40s - loss: 0.0217 - accuracy: 0.997 - ETA: 40s - loss: 0.0213 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy y: 0.997 - ETA: 39s - loss: 0.0248 - accuracy: 0.996 - ETA: 39s - loss: 0.0243 - accuracy: 0.996 - ETA: 39s - loss: 0.0239 - accuracy: 0.996 - ETA: 39s - loss: 0.0235 - accuracy: 0.996 - ETA: 39s - loss: 0.0231 - accuracy: 0.996 - ETA: 39s - loss: 0.0227 - accuracy: 0. 996 - ETA: 39s - loss: 0.0224 - accuracy: 0.997 - ETA: 38s - loss: 0.0220 - accuracy: 0.997 - ETA: 38s - loss: 0.0217 - accuracy: 0.99 7 - ETA: 38s - loss: 0.0214 - accuracy: 0.997 - ETA: 38s - loss: 0.0210 - accuracy: 0.997 - ETA: 38s - loss: 0.0207 - accuracy: 0.997 - ETA: 37s - loss: 0.0204 - accuracy: 0.997 - ETA: 38s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0232 - accuracy: 0.996 -ETA: 37s - loss: 0.0228 - accuracy: 0.996 - ETA: 37s - loss: 0.0225 - accuracy: 0.997 - ETA: 37s - loss: 0.0222 - accuracy: 0.997 - ETA A: 37s - loss: 0.0219 - accuracy: 0.997 - ETA: 37s - loss: 0.0247 - accuracy: 0.996 - ETA: 36s - loss: 0.0244 - accuracy: 0.996 - ETA: 37s - loss: 0.0241 - accuracy: 0.996 - ETA: 36s - loss: 0.0238 - accuracy: 0.996 - ETA: 36s - loss: 0.0235 - accuracy: 0.996 - ETA: 36 s - loss: 0.0233 - accuracy: 0.996 - ETA: 36s - loss: 0.0230 - accuracy: 0.996 - ETA: 36s - loss: 0.0227 - accuracy: 0.997 - ETA: 35s - loss: 0.0225 - accuracy: 0.997 - ETA: 35s - loss: 0.0226 - accuracy: 0.997 - ETA: 35s - loss: 0.0227 - accuracy: 0.997 - ETA: 35s - loss: 0.0228 - accuracy: 0.997 - accuracy: 0.997 - ETA: 35s - loss: 0.0228 - accuracy: 0.997 - ETA: 35s - loss: 0.0228 - accuracy: 0.997 - ETA: 35s - loss: 0.0228 - accuracy: 0.997 - ETA: 35s - loss: 0.0228 - accuracy: 0.997 - ETA: 35s - loss: 0.0228 - accuracy: 0.997 - ETA: 35s - loss: 0.0228 - accuracy: 0.997 - ETA: 35s - loss: 0.0228 - accuracy: 0.997 - ETA: 35s - loss: 0.0228 - accuracy: 0.997 - ETA: 35s - loss: 0.0228 - accuracy: 0.997 - ETA: 35s loss: 0.0218 - accuracy: 0.997 - ETA: 35s - loss: 0.0216 - accuracy: 0.997 - ETA: 35s - loss: 0.0213 - accuracy: 0.997 - ETA: 35s - lo ss: 0.0211 - accuracy: 0.997 - ETA: 35s - loss: 0.0209 - accuracy: 0.997 - ETA: 35s - loss: 0.0207 - accuracy: 0.997 - ETA: 34s - los s: 0.0228 - accuracy: 0.997 - ETA: 34s - loss: 0.0226 - accuracy: 0.997 - ETA: 34s - loss: 0.0224 - accuracy: 0.997 - ETA: 34s - loss: 0.0222 - accuracy: 0.997 - ETA: 34s - loss: 0.0220 - accuracy: 0216 - accuracy: 0.997 - ETA: 34s - loss: 0.0214 - accuracy: 0.997 - ETA: 33s - loss: 0.0212 - accuracy: 0.997 - ETA: 33s - loss: 0.02 29 - accuracy: 0.996 - ETA: 33s - loss: 0.0227 - accuracy: 0.996 - ETA: 33s - loss: 0.0225 - accuracy: 0.997 - ETA: 33s - loss: 0.0223 - accuracy: 0.997 - ETA: 33s - loss: 0.0222 - accuracy: 0.997 - ETA: 33s - loss: 0.0220 - accuracy: 0.997 - ETA: 33s - loss: 0.0237 - accuracy: 0.996 - ETA: 32s - loss: 0.0254 - accuracy: 0.996 - ETA: 32s - loss: 0.0250 - a ccuracy: 0.996 - ETA: 32s - loss: 0.0248 - accuracy: 0.996 - ETA: 32s - loss: 0.0246 - accuracy: 0.996 - ETA: 32s - loss: 0.0245 - acc uracy: 0.996 - ETA: 32s - loss: 0.0243 - accuracy: 0.996 - ETA: 32s - loss: 0.0242 - accuracy: 0.996 - ETA: 31s - loss: 0.0240 - accur acy: 0.996 - ETA: 31s - loss: 0.0239 - accuracy: 0.996 - ETA: 31s - loss: 0.0237 - accuracy: 0.996 - ETA: 31s - loss: 0.0235 - accuracy y: 0.996 - ETA: 31s - loss: 0.0234 - accuracy: 0.996 - ETA: 31s - loss: 0.0232 - accuracy: 0.996 - ETA: 31s - loss: 0.0231 - accuracy: 0.996 - ETA: 31s - loss: 0.0229 - accuracy: 0.997 - ETA: 30s - loss: 0.0228 - accuracy: 0.997 - ETA: 30s - loss: 0.0226 - accuracy: 0. 997 - ETA: 30s - loss: 0.0224 - accuracy: 0.997 - ETA: 30s - loss: 0.0223 - accuracy: 0.997 - ETA: 30s - loss: 0.0221 - accuracy: 0.99 7 - ETA: 30s - loss: 0.0220 - accuracy: 0.997 - ETA: 29s - loss: 0.0218 - accuracy: 0.997 - ETA: 29s - loss: 0.0217 - accuracy: 0.997 - ETA: 29s - loss: 0.0215 - accuracy: 0.997 - ETA: 29s - loss: 0.0214 - accuracy: 0.997 - ETA: 29s - loss: 0.0212 - accuracy: 0.997 -ETA: 29s - loss: 0.0211 - accuracy: 0.997 - ETA: 28s - loss: 0.0209 - accuracy: 0.997 - ETA: 28s - loss: 0.0225 - accuracy: 0.997 - ET A: 28s - loss: 0.0223 - accuracy: 0.997 - ETA: 28s - loss: 0.0222 - accuracy: 0.997 - ETA: 28s - loss: 0.0236 - accuracy: 0.996 - ETA: 28s - loss: 0.0234 - accuracy: 0.996 - ETA: 28s - loss: 0.0248 - accuracy: 0.996 - ETA: 27s - loss: 0.0246 - accuracy: 0.996 - ETA: 27 s - loss: 0.0245 - accuracy: 0.996 - ETA: 27s - loss: 0.0244 - accuracy: 0.996 - ETA: 27s - loss: 0.0242 - accuracy: 0.996 - ETA: 27s - loss: 0.0241 - accuracy: 0.996 - ETA: 27s - loss: 0.0240 - accuracy: 0.996 - ETA: 27s - loss: 0.0251 - accuracy: 0.996 - ETA: 26s loss: 0.0250 - accuracy: 0.996 - ETA: 26s - loss: 0.0248 - accuracy: 0.996 - ETA: 26s - loss: 0.0258 - accuracy: 0.996 - ETA: 26s - lo ss: 0.0257 - accuracy: 0.996 - ETA: 26s - loss: 0.0256 - accuracy: 0.996 - ETA: 26s - loss: 0.0255 - accuracy: 0.996 - ETA: 26s - loss: 0.0254 - accuracy: 0.996 - ETA: 25s - loss: 0.0253 - accuracy: 0.996 - ETA: 25s - loss: 0.0254 - accuracy: 0.996 - ETA: 25s - loss: 0.0254 - accuracy: 0.996 - ETA: 25s - loss: 0.0254 - accuracy: 0.996 - ETA: 25s - loss: 0.0255 - accuracy: 0.996 - ETA: 25s - loss: 0.0254 - accuracy: 0.996 - ETA: 25s - loss: 0.0255 - accuracy: 0.996 - ETA: 25s - loss: 0.0254 - accuracy: 0.996 - ETA: 25s - loss: 0.0255 - accuracy: 0.996 - ETA: 25s - loss: 0.0254 - accuracy: 0.996 - ETA: 25s - loss: 0.0255 - accuracy: 0.0251 - accuracy: 0.996 - ETA: 25s - loss: 0.0249 - accuracy: 0.996 - ETA: 25s - loss: 0.0248 - accuracy: 0.996 - ETA: 25s - loss: 0.0247 - accuracy: 0.996 - ETA: 25s - loss: 0.0246 - accuracy: 0.996 - ETA: 25s - loss: 0.0247 - accuracy: 0.996 - ETA: 25s - loss: 0.0246 - accuracy: 0.9 44 - accuracy: 0.996 - ETA: 24s - loss: 0.0243 - accuracy: 0.996 - ETA: 24s - loss: 0.0241 - accuracy: 0.996 - ETA: 24s - loss: 0.0240 - accuracy: 0.996 - ETA: 23s - loss: 0.0239 - accuracy: 0.996 - ETA: 23s - loss: 0.0238 - accuracy: 0.996 - ETA: 23s - loss: 0.0236 - accuracy: 0.996 - ETA: 23s - loss: 0.0235 - accuracy: 0.996 - ETA: 23s - loss: 0.0234 - accuracy: 0.996 - ETA: 23s - loss: 0.0233 - a ccuracy: 0.997 - ETA: 23s - loss: 0.0232 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0229 - acc uracy: 0.997 - ETA: 22s - loss: 0.0228 - accuracy: 0.997 - ETA: 22s - loss: 0.0227 - accuracy: 0.997 - ETA: 22s - loss: 0.0226 - accur acy: 0.997 - ETA: 22s - loss: 0.0224 - accuracy: 0.997 - ETA: 22s - loss: 0.0223 - accuracy: 0.997 - ETA: 22s - loss: 0.0222 - accurac y: 0.997 - ETA: 21s - loss: 0.0221 - accuracy: 0.997 - ETA: 21s - loss: 0.0220 - accuracy: 0.997 - ETA: 21s - loss: 0.0219 - accuracy: 0.997 - ETA: 21s - loss: 0.0218 - accuracy: 0.997 - ETA: 21s - loss: 0.0217 - accuracy: 0.997 - ETA: 21s - loss: 0.0216 - accuracy: 0. 997 - ETA: 20s - loss: 0.0214 - accuracy: 0.997 - ETA: 20s - loss: 0.0213 - accuracy: 0.997 - ETA: 20s - loss: 0.0212 - accuracy: 0.99 7 - ETA: 20s - loss: 0.0211 - accuracy: 0.997 - ETA: 20s - loss: 0.0222 - accuracy: 0.997 - ETA: 20s - loss: 0.0221 - accuracy: 0.997 - ETA: 20s - loss: 0.0220 - accuracy: 0.9971322/322 [==========] - ETA: 20s - loss: 0.0219 - accuracy: 0.997 - ET A: 19s - loss: 0.0218 - accuracy: 0.997 - ETA: 19s - loss: 0.0217 - accuracy: 0.997 - ETA: 19s - loss: 0.0216 - accuracy: 0.997 - ETA: 19s - loss: 0.0215 - accuracy: 0.997 - ETA: 19s - loss: 0.0214 - accuracy: 0.997 - ETA: 19s - loss: 0.0213 - accuracy: 0.997 - ETA: 18 s - loss: 0.0212 - accuracy: 0.997 - ETA: 18s - loss: 0.0211 - accuracy: 0.997 - ETA: 18s - loss: 0.0210 - accuracy: 0.997 - ETA: 18s - loss: 0.0209 - accuracy: 0.997 - ETA: 18s - loss: 0.0208 - accuracy: 0.997 - ETA: 18s - loss: 0.0208 - accuracy: 0.997 - ETA: 17s loss: 0.0207 - accuracy: 0.997 - ETA: 17s - loss: 0.0217 - accuracy: 0.997 - ETA: 17s - loss: 0.0216 - accuracy: 0.997 - ETA: 17s - lo ss: 0.0215 - accuracy: 0.997 - ETA: 17s - loss: 0.0214 - accuracy: 0.997 - ETA: 17s - loss: 0.0213 - accuracy: 0.997 - ETA: 17s - los s: 0.0212 - accuracy: 0.997 - ETA: 16s - loss: 0.0211 - accuracy: 0.997 - ETA: 16s - loss: 0.0210 - accuracy: 0.997 - ETA: 16s - loss: 0.0210 - accuracy: 0.997 - ETA: 16s - loss: 0.0209 - accuracy: 0.997 - ETA: 16s - loss: 0.0208 - accuracy: 0.997 - a 0.0207 - accuracy: 0.997 - ETA: 16s - loss: 0.0206 - accuracy: 0.997 - ETA: 15s - loss: 0.0215 - accuracy: 0.997 - ETA: 15s - loss: 0.0216 - accuracy: 0.997 - ETA: 15s - loss: 0.0216 - accuracy: 0.997 - ETA: 15s - loss: 0.0217 - accuracy: 0.997 - ETA: 15s - loss: 0.0218 - accuracy: 0.9 - accuracy: 0.997 - ETA: 15s - loss: 0.0211 - accuracy: 0.997 - ETA: 15s - loss: 0.0200 - accuracy: 0.997 - ETA: 15s - loss: 0.0208 - accuracy: 0.997 - ETA: 14s - loss: 0.0208 - accuracy: 0.997 - ET ccuracy: 0.997 - ETA: 14s - loss: 0.0206 - accuracy: 0.997 - ETA: 14s - loss: 0.0205 - accuracy: 0.997 - ETA: 14s - loss: 0.0204 - accuracy: 0.997 - ETA: 13s - loss: 0.0203 - accuracy: 0.997 - ETA: 13s - loss: 0.0204 - accuracy: 0.997 - ETA: 13s - loss: 0.0205 - accuracy: 0.997 - ETA: acy: 0.997 - ETA: 13s - loss: 0.0202 - accuracy: 0.997 - ETA: 13s - loss: 0.0201 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0199 - accuracy: 0.997 - ETA: 13s - loss: 0.0199 - accuracy: 0.997 - ETA: 13s - loss: 0.0198 - accuracy: 0.997 - ETA: 0.997 - ETA: 0.997 - ETA: 0.997 - ETA: 0.997 - E 0.997 - ETA: 12s - loss: 0.0197 - accuracy: 0.997 - ETA: 12s - loss: 0.0197 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - accuracy: 0. 997 - ETA: 12s - loss: 0.0195 - accuracy: 0.997 - ETA: 12s - loss: 0.0194 - accuracy: 0.997 - ETA: 12s - loss: 0.0194 - accuracy: 0.99 7 - ETA: 12s - loss: 0.0202 - accuracy: 0.997 - ETA: 11s - loss: 0.0201 - accuracy: 0.997 - ETA: 11s - loss: 0.0209 - accuracy: 0.997 - ETA: 11s - loss: 0.0208 - accuracy: 0.997 - ETA: 11s - loss: 0.0207 - accuracy: 0.997 - ETA: 11s - loss: 0.0207 - accuracy: 0.997 -ETA: 11s - loss: 0.0206 - accuracy: 0.997 - ETA: 11s - loss: 0.0205 - accuracy: 0.997 - ETA: 10s - loss: 0.0205 - accuracy: 0.997 - ETA A: 10s - loss: 0.0204 - accuracy: 0.997 - ETA: 10s - loss: 0.0211 - accuracy: 0.997 - ETA: 10s - loss: 0.0210 - accuracy: 0.997 - ETA: 10s - loss: 0.0209 - accuracy: 0.997 - ETA: 10s - loss: 0.0209 - accuracy: 0.997 - ETA: 9s - loss: 0.0208 - accuracy: 0.997 - ETA: 9s - loss: 0.0208 - accuracy: 0.99 - ETA: 9s - loss: 0.0207 - accuracy: 0.99 - ETA: 9s - loss: 0.0206 - accuracy: 0.99 - ETA: 9s - loss: 0.0206 - accuracy: 0.99 - ETA: 9s - loss: 0.0205 - accuracy: 0.99 - ETA: 9s - loss: 0.0205 - accuracy: 0.99 - ETA: 8s - loss: 0.0204 accuracy: 0.99 - ETA: 8s - loss: 0.0204 - accuracy: 0.99 - ETA: 8s - loss: 0.0203 - accuracy: 0.99 - ETA: 8s - loss: 0.0202 - accuracy y: 0.99 - ETA: 8s - loss: 0.0202 - accuracy: 0.99 - ETA: 8s - loss: 0.0201 - accuracy: 0.99 - ETA: 8s - loss: 0.0201 - accuracy: 0.99 - ETA: 7s - loss: 0.0200 - accuracy: 0.99 - ETA: 7s - loss: 0.0206 - accuracy: 0.99 - ETA: 7s - loss: 0.0206 - accuracy: 0.99 - ETA: 7s - loss: 0.0205 - accuracy: 0.99 - ETA: 7s - loss: 0.0205 - accuracy: 0.99 - ETA: 7s - loss: 0.0204 - accuracy: 0.99 - ETA: 6s - lo ss: 0.0210 - accuracy: 0.99 - ETA: 6s - loss: 0.0210 - accuracy: 0.99 - ETA: 6s - loss: 0.0209 - accuracy: 0.99 - ETA: 6s - loss: 0.02 08 - accuracy: 0.99 - ETA: 6s - loss: 0.0208 - accuracy: 0.99 - ETA: 6s - loss: 0.0207 - accuracy: 0.99 - ETA: 6s - loss: 0.0207 - acc uracy: 0.99 - ETA: 5s - loss: 0.0206 - accuracy: 0.99 - ETA: 5s - loss: 0.0206 - accuracy: 0.99 - ETA: 5s - loss: 0.0205 - accuracy: 0.99 - ETA: 5s - accuracy: ETA: 4s - loss: 0.0203 - accuracy: 0.99 - ETA: 4s - loss: 0.0202 - accuracy: 0.99 - ETA: 4s - loss: 0.0202 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0201 - accuracy: 0.99 - ETA: 4s - loss: 0.0200 - accuracy: 0.99 - ETA: 4s - loss: 0.0200 - accuracy: 0.99 - ETA: 3s - loss: 0.0199 - accuracy: 0.99 - ETA: 3s - loss: 0.0205 - accuracy: 0.99 - ETA: 3s - loss: 0.0204 - accuracy: 0.99 - ETA: 3s - loss: 0.0204 - accuracy: 0.99 - ETA: 3s - loss: 0.0203 - accuracy: 0.90 - accuracy: acy: 0.99 - ETA: 2s - loss: 0.0202 - accuracy: 0.99 - ETA: 2s - loss: 0.0201 - accuracy: 0.99 - ETA: 2s - loss: 0.0207 - accuracy: 0.9 9 - ETA: 2s - loss: 0.0207 - accuracy: 0.99 - ETA: 2s - loss: 0.0206 - accuracy: 0.99 - ETA: 2s - loss: 0.0206 - accuracy: 0.99 - ETA: 2s - loss: 0.0205 - accuracy: 0.99 - ETA: 1s - loss: 0.0205 - accuracy: 0.99 - ETA: 1s - loss: 0.0204 - accuracy: 0.99 - ETA: 1s - los s: 0.0204 - accuracy: 0.99 - ETA: 1s - loss: 0.0203 - accuracy: 0.99 - ETA: 1s - loss: 0.0203 - accuracy: 0.99 - ETA: 1s - loss: 0.020 2 - accuracy: 0.99 - ETA: 0s - loss: 0.0202 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accu racy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0199 - accuracy: 0.99 - ETA: 0s - loss: 0.0199 - accuracy: 0.99 - ETA: 0s - loss: 0.0199 - accuracy: 0.99 - STA: 0s - loss: 0.0199 - accuracy: 0.99 - sTA: 0s - loss: 0.0199 - accuracy: 0.99 - sTA: 0s - loss: 0.0199 - accuracy: 0.99 - sTA: 0s - loss: 0.0199 - accuracy: 0.99 - sTA: 0s - loss: 0.0199 - accuracy: 0.99 - sTA: 0s - loss: 0.0199 - accuracy: 0.99 - sTA: 0s - loss: 0.0199 - accuracy: 0.99 - sTA: 0.99 - accuracy: 0.99 - sTA: 0.99 - accuracy: 0.99 - sTA: 0.99 - accuracy: 0.99 - accu

115/322 [=======>......] - ETA: 0s - loss: 0.0034 - accuracy: 1.00 - ETA: 19s - loss: 0.0034 - accuracy: 1.000 - ETA: 26s - loss: 0.0033 - accuracy: 1.000 - ETA: 29s - loss: 0.0541 - accuracy: 0.992 - ETA: 31s - loss: 0.0439 - accuracy: 0.993 - ETA: 3 5s - loss: 0.0372 - accuracy: 0.994 - ETA: 40s - loss: 0.0614 - accuracy: 0.991 - ETA: 41s - loss: 0.0543 - accuracy: 0.992 - ETA: 41s - loss: 0.0488 - accuracy: 0.993 - ETA: 40s - loss: 0.0445 - accuracy: 0.993 - ETA: 40s - loss: 0.0409 - accuracy: 0.994 - ETA: 40s loss: 0.0379 - accuracy: 0.994 - ETA: 40s - loss: 0.0354 - accuracy: 0.995 - ETA: 41s - loss: 0.0332 - accuracy: 0.995 - ETA: 42s - 1 oss: 0.0313 - accuracy: 0.995 - ETA: 43s - loss: 0.0297 - accuracy: 0.996 - ETA: 43s - loss: 0.0282 - accuracy: 0.996 - ETA: 42s - los s: 0.0269 - accuracy: 0.996 - ETA: 42s - loss: 0.0257 - accuracy: 0.996 - ETA: 42s - loss: 0.0247 - accuracy: 0.996 - ETA: 41s - loss: 0.0237 - accuracy: 0.997 - ETA: 41s - loss: 0.0228 - accuracy: 0.997 - ETA: 42s - loss: 0.0220 - accuracy: 0.997 - ETA: 42s - loss: 0. 0213 - accuracy: 0.997 - ETA: 42s - loss: 0.0206 - accuracy: 0.997 - ETA: 42s - loss: 0.0199 - accuracy: 0.997 - ETA: 41s - loss: 0.01 93 - accuracy: 0.997 - ETA: 41s - loss: 0.0188 - accuracy: 0.997 - ETA: 41s - loss: 0.0182 - accuracy: 0.997 - ETA: 41s - loss: 0.017 - accuracy: 0.997 - ETA: 42s - loss: 0.0173 - accuracy: 0.998 - ETA: 42s - loss: 0.0168 - accuracy: 0.998 - ETA: 42s - loss: 0.0164 accuracy: 0.998 - ETA: 41s - loss: 0.0160 - accuracy: 0.998 - ETA: 41s - loss: 0.0156 - accuracy: 0.998 - ETA: 41s - loss: 0.0153 - a ccuracy: 0.998 - ETA: 415 - 105S: 0.0149 - accuracy: 0.998 - ETA: 415 - 105S: 0.0203 - accuracy: 0.997 - ETA: 415 - 105S: 0.0199 - accuracy: 0.997 - ETA: 415 - 105S: 0.0195 - accuracy: 0.997 - ETA: 415 - 105S: 0.0195 - accuracy: 0.997 - ETA: 415 - 105S: 0.0187 - accuracy: 0.997 - ETA: 415 - 105S: 0.0183 - accuracy: 0.997 - ETA: 415 - 105S: 0.0183 - accuracy: 0.997 - ETA: 415 - 105S: 0.0173 - accuracy: 0.997 - ETA: 415 - 105S: 0.0173 - accuracy: 0.998 - ETA: 0.998 - ETA: 40s - loss: 0.0165 - accuracy: 0.998 - ETA: 40s - loss: 0.0162 - accuracy: 0.998 - ETA: 40s - loss: 0.0159 - accuracy: 0. 998 - ETA: 40s - loss: 0.0157 - accuracy: 0.998 - ETA: 39s - loss: 0.0154 - accuracy: 0.998 - ETA: 40s - loss: 0.0152 - accuracy: 0.99 8 - ETA: 39s - loss: 0.0150 - accuracy: 0.998 - ETA: 39s - loss: 0.0148 - accuracy: 0.998 - ETA: 39s - loss: 0.0146 - accuracy: 0.998 - ETA: 39s - loss: 0.0144 - accuracy: 0.998 - ETA: 39s - loss: 0.0142 - accuracy: 0.998 - ETA: 38s - loss: 0.0140 - accuracy: 0.998 -ETA: 38s - loss: 0.0138 - accuracy: 0.998 - ETA: 38s - loss: 0.0136 - accuracy: 0.998 - ETA: 38s - loss: 0.0134 - accuracy: 0.998 - ET A: 38s - loss: 0.0133 - accuracy: 0.998 - ETA: 38s - loss: 0.0131 - accuracy: 0.998 - ETA: 38s - loss: 0.0161 - accuracy: 0.998 - ETA: 38s - loss: 0.0159 - accuracy: 0.998 - ETA: 37s - loss: 0.0186 - accuracy: 0.997 - ETA: 37s - loss: 0.0184 - accuracy: 0.997 - ETA: 37 s - loss: 0.0182 - accuracy: 0.997 - ETA: 37s - loss: 0.0180 - accuracy: 0.997 - ETA: 37s - loss: 0.0178 - accuracy: 0.997 - ETA: 37s - loss: 0.0177 - accuracy: 0.997 - ETA: 37s - loss: 0.0175 - accuracy: 0.997 - ETA: 36s - loss: 0.0173 - accuracy: 0.997 - ETA: 36s loss: 0.0171 - accuracy: 0.997 - ETA: 36s - loss: 0.0170 - accuracy: 0.998 - ETA: 36s - loss: 0.0168 - accuracy: 0.998 - ETA: 36s - lo ss: 0.0166 - accuracy: 0.998 - ETA: 36s - loss: 0.0188 - accuracy: 0.997 - ETA: 36s - loss: 0.0186 - accuracy: 0.997 - ETA: 36s - loss s: 0.0184 - accuracy: 0.997 - ETA: 35s - loss: 0.0182 - accuracy: 0.997 - ETA: 35s - loss: 0.0181 - accuracy: 0.997 - ETA: 35s - loss: 0.0179 - accuracy: 0.997 - ETA: 35s - loss: 0.0178 - accuracy: 0.997 - ETA: 35s - loss: 0.0176 - accuracy: 0.997 - ETA: 35s - loss: 0.

```
- accuracy: 0.995 - ETA: 44s - loss: 0.0311 - accuracy: 0.995 - ETA: 44s - loss: 0.0299 - accuracy: 0.995 - ETA: 44s - loss: 0.0280 - accuracy: 0.996 - ETA: 44s - loss: 0.0280 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ETA: 44s - loss: 0.0263 - accuracy: 0.996 - ET
 curacy: 0.996 - ETA: 44s - loss: 0.0256 - accuracy: 0.996 - ETA: 43s - loss: 0.0249 - accuracy: 0.996 - ETA: 43s - loss: 0.0243 - accu
racy: 0.996 - ETA: 43s - loss: 0.0237 - accuracy: 0.996 - ETA: 43s - loss: 0.0231 - accuracy: 0.997 - ETA: 43s - loss: 0.0225 - accura
 cy: 0.997 - ETA: 43s - loss: 0.0220 - accuracy: 0.997 - ETA: 43s - loss: 0.0215 - accuracy: 0.997 - ETA: 43s - loss: 0.0210 - accurac
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997 - ETA: 42s - loss: 0.0269 - accuracy: 0.996 - ETA: 42s - loss: 0.0264 - accuracy: 0.996 - ETA: 42s - loss: 0.0259 - accuracy: 0.99
6 - ETA: 42s - loss: 0.0294 - accuracy: 0.995 - ETA: 41s - loss: 0.0288 - accuracy: 0.995 - ETA: 41s - loss: 0.0284 - accuracy: 0.996
   - ETA: 41s - loss: 0.0279 - accuracy: 0.996 - ETA: 41s - loss: 0.0275 - accuracy: 0.996 - ETA: 41s - loss: 0.0271 - accuracy: 0.996 -
ETA: 41s - loss: 0.0267 - accuracy: 0.996 - ETA: 41s - loss: 0.0263 - accuracy: 0.996 - ETA: 40s - loss: 0.0259 - accuracy: 0.996 - ETA
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s - loss: 0.0236 - accuracy: 0.996 - ETA: 40s - loss: 0.0233 - accuracy: 0.996 - ETA: 39s - loss: 0.0230 - accuracy: 0.997 - ETA: 39s
   - loss: 0.0227 - accuracy: 0.997 - ETA: 39s - loss: 0.0254 - accuracy: 0.996 - ETA: 39s - loss: 0.0250 - accuracy: 0.996 - ETA: 39s -
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0240 - accuracy: 0.996 - ETA: 37s - loss: 0.0237 - accuracy: 0.996 - ETA: 37s - loss: 0.0257 - accuracy: 0.996 - ETA: 37s - loss: 0.02
54 - accuracy: 0.996 - ETA: 37s - loss: 0.0252 - accuracy: 0.996 - ETA: 36s - loss: 0.0249 - accuracy: 0.996 - ETA: 36s - loss: 0.0247
 - accuracy: 0.996 - ETA: 36s - loss: 0.0245 - accuracy: 0.996 - ETA: 36s - loss: 0.0242 - accuracy: 0.996 - ETA: 36s - loss: 0.0240 -
  accuracy: 0.996 - ETA: 36s - loss: 0.0238 - accuracy: 0.996 - ETA: 35s - loss: 0.0236 - accuracy: 0.996 - ETA: 35s - loss: 0.0254 - a
ccuracy: 0.996 - ETA: 35s - loss: 0.0252 - accuracy: 0.996 - ETA: 35s - loss: 0.0250 - accuracy: 0.996 - ETA: 35s - loss: 0.0248 - accuracy: 0.996 - ETA: 35s - loss: 0.0264 - accuracy: 0.996 - ETA: 35s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 34s - loss: 0.0260 - accuracy: 0.996 - ETA: 
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996 - ETA: 33s - loss: 0.0242 - accuracy: 0.996 - ETA: 33s - loss: 0.0240 - accuracy: 0.996 - ETA: 33s - loss: 0.0238 - accuracy: 0.99
6 - ETA: 32s - loss: 0.0236 - accuracy: 0.996 - ETA: 32s - loss: 0.0250 - accuracy: 0.996 - ETA: 32s - loss: 0.0248 - accuracy: 0.996
   - ETA: 32s - loss: 0.0247 - accuracy: 0.996 - ETA: 32s - loss: 0.0245 - accuracy: 0.996 - ETA: 32s - loss: 0.0243 - accuracy: 0.996 -
ETA: 32s - loss: 0.0241 - accuracy: 0.9967303/322 [===============].] - ETA: 32s - loss: 0.0240 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.996 - ETA: 31s - loss: 0.0238 - accuracy: 0.
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  0.0200 - accuracy: 0.99 - ETA: 9s - loss: 0.0200 - accuracy: 0.99 - ETA: 9s - loss: 0.0199 - accuracy: 0.99 - ETA: 9s - loss: 0.0198
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acy: 0.99 - ETA: 8s - loss: 0.0196 - accuracy: 0.99 - ETA: 8s - loss: 0.0195 - accuracy: 0.99 - ETA: 8s - loss: 0.0195 - accuracy: 0.99
 9 - ETA: 8s - loss: 0.0194 - accuracy: 0.99 - ETA: 8s - loss: 0.0193 - accuracy: 0.99 - ETA: 7s - loss: 0.0193 - accuracy: 0.99 - ETA:
7s - loss: 0.0192 - accuracy: 0.99 - ETA: 7s - loss: 0.0191 - accuracy: 0.99 - ETA: 7s - loss: 0.0191 - accuracy: 0.99 - ETA: 7s - loss
 s: 0.0190 - accuracy: 0.99 - ETA: 7s - loss: 0.0198 - accuracy: 0.99 - ETA: 6s - loss: 0.0197 - accuracy: 0.99 - ETA: 6s - loss: 0.019
 7 - accuracy: 0.99 - ETA: 6s - loss: 0.0196 - accuracy: 0.99 - ETA: 6s - loss: 0.0196 - accuracy: 0.99 - ETA: 6s - loss: 0.0195 - accu
 racy: 0.99 - ETA: 6s - loss: 0.0194 - accuracy: 0.99 - ETA: 6s - loss: 0.0194 - accuracy: 0.99 - ETA: 5s - loss: 0.0193 - accuracy: 0.
 99 - ETA: 5s - loss: 0.0193 - accuracy: 0.99 - ETA: 5s - loss: 0.0192 - accuracy: 0.99 - ETA: 5s - loss: 0.0192 - accuracy: 0.99 - ET
A: 5s - loss: 0.0191 - accuracy: 0.99 - ETA: 5s - loss: 0.0190 - accuracy: 0.99 - ETA: 4s - loss: 0.0190 - accuracy: 0.99 - ETA: 4s -
  loss: 0.0189 - accuracy: 0.99 - ETA: 4s - loss: 0.0189 - accuracy: 0.99 - ETA: 4s - loss: 0.0186 - accuracy: 0.99 - ETA: 4s - loss: 0.0187 - accuracy: 0.99 - ETA: 3s - loss: 0.0186 - accuracy: 0.99 - ETA: 3s - loss: 0.0186
```

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=] - ETA: 2s - loss: 0.0183 - accuracy: 0.99 - ETA: 2s - loss: 0.0182 - accuracy: 0.99 - ETA: 2s - loss: 0.0182 - accuracy: 0.99 - ETA: 2s - loss: 0.0188 - accuracy: 0.99 - ETA: 1s -
 loss: 0.0194 - accuracy: 0.99 - ETA: 1s - loss: 0.0194 - accuracy: 0.99 - ETA: 1s - loss: 0.0193 - accuracy: 0.99 - ETA: 1s - loss:
  0.0193 - accuracy: 0.99 - ETA: 1s - loss: 0.0192 - accuracy: 0.99 - ETA: 1s - loss: 0.0192 - accuracy: 0.99 - ETA: 0s - loss: 0.0191
  - accuracy: 0.99 - ETA: 0s - loss: 0.0197 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0.0196 - accuracy: 0.99 - ac
acy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.9
9 - 54s 168ms/step - loss: 0.0195 - accuracy: 0.9975 - val loss: 0.0227 - val accuracy: 0.9968
Epoch 28/50
.
186/322 [=========>......] - ETA: 0s - loss: 0.1826 - accuracy: 0.96 - ETA: 28s - loss: 0.0943 - accuracy: 0.984 - ETA:
  34s - loss: 0.0650 - accuracy: 0.989 - ETA: 36s - loss: 0.0505 - accuracy: 0.992 - ETA: 38s - loss: 0.0418 - accuracy: 0.993 - ETA: 4
0s - loss: 0.0361 - accuracy: 0.994 - ETA: 43s - loss: 0.0320 - accuracy: 0.995 - ETA: 43s - loss: 0.0289 - accuracy: 0.996 - ETA: 42s
  - loss: 0.0264 - accuracy: 0.996 - ETA: 44s - loss: 0.0245 - accuracy: 0.996 - ETA: 44s - loss: 0.0228 - accuracy: 0.997 - ETA: 44s -
 loss: 0.0214 - accuracy: 0.997 - ETA: 44s - loss: 0.0202 - accuracy: 0.997 - ETA: 45s - loss: 0.0191 - accuracy: 0.997 - ETA: 45s - l
oss: 0.0182 - accuracy: 0.997 - ETA: 45s - loss: 0.0173 - accuracy: 0.998 - ETA: 46s - loss: 0.0166 - accuracy: 0.998 - ETA: 47s - los
s: 0.0268 - accuracy: 0.996 - ETA: 46s - loss: 0.0256 - accuracy: 0.996 - ETA: 46s - loss: 0.0245 - accuracy: 0.996 - ETA: 46s - loss:
0.0236 - accuracy: 0.997 - ETA: 46s - loss: 0.0227 - accuracy: 0.997 - ETA: 47s - loss: 0.0219 - accuracy: 0.997 - ETA: 48s - loss: 0.
0212 - accuracy: 0.997 - ETA: 48s - loss: 0.0205 - accuracy: 0.997 - ETA: 48s - loss: 0.0199 - accuracy: 0.997 - ETA: 49s - loss: 0.02
60 - accuracy: 0.996 - ETA: 50s - loss: 0.0252 - accuracy: 0.996 - ETA: 49s - loss: 0.0245 - accuracy: 0.996 - ETA: 49s - loss: 0.0238
- accuracy: 0.996 - ETA: 48s - loss: 0.0232 - accuracy: 0.997 - ETA: 49s - loss: 0.0226 - accuracy: 0.997 - ETA: 48s - loss: 0.0220 -
accuracy: 0.997 - ETA: 48s - loss: 0.0215 - accuracy: 0.997 - ETA: 48s - loss: 0.0210 - accuracy: 0.997 - ETA: 48s - loss: 0.0205 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA: 48s - loss: 0.0201 - accuracy: 0.997 - ETA:
uracy: 0.997 - ETA: 47s - loss: 0.0188 - accuracy: 0.997 - ETA: 47s - loss: 0.0185 - accuracy: 0.997 - ETA: 47s - loss: 0.0181 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0171 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47s - loss: 0.0174 - accuracy: 0.997 - ETA: 47
y: 0.997 - ETA: 47s - loss: 0.0211 - accuracy: 0.997 - ETA: 47s - loss: 0.0207 - accuracy: 0.997 - ETA: 47s - loss: 0.0203 - accuracy:
0.997 - ETA: 47s - loss: 0.0200 - accuracy: 0.997 - ETA: 47s - loss: 0.0197 - accuracy: 0.997 - ETA: 48s - loss: 0.0193 - accuracy: 0.
997 - ETA: 48s - loss: 0.0190 - accuracy: 0.997 - ETA: 47s - loss: 0.0187 - accuracy: 0.997 - ETA: 47s - loss: 0.0185 - accuracy: 0.997 - ETA: 47s - loss: 0.0182 - accuracy: 0.997 - ETA: 47s - loss: 0.0182 - accuracy: 0.997 - ETA: 47s - loss: 0.0214 - accuracy: 0.997
  - ETA: 47s - loss: 0.0208 - accuracy: 0.997 - ETA: 47s - loss: 0.0205 - accuracy: 0.997 - ETA: 46s - loss: 0.0202 - accuracy: 0.997 -
ETA: 46s - loss: 0.0228 - accuracy: 0.996 - ETA: 46s - loss: 0.0225 - accuracy: 0.997 - ETA: 46s - loss: 0.0250 - accuracy: 0.996 - ET
A: 46s - loss: 0.0247 - accuracy: 0.996 - ETA: 45s - loss: 0.0244 - accuracy: 0.996 - ETA: 45s - loss: 0.0242 - accuracy: 0.996 - ETA:
45s - loss: 0.0239 - accuracy: 0.996 - ETA: 45s - loss: 0.0237 - accuracy: 0.996 - ETA: 44s - loss: 0.0234 - accuracy: 0.996 - ETA: 44
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loss: 0.0240 - accuracy: 0.996 - ETA: 42s - loss: 0.0238 - accuracy: 0.996 - ETA: 42s - loss: 0.0236 - accuracy: 0.996 - ETA: 42s - lo
ss: 0.0234 - accuracy: 0.996 - ETA: 42s - loss: 0.0232 - accuracy: 0.996 - ETA: 42s - loss: 0.0230 - accuracy: 0.996 - ETA: 42s - los
s: 0.0228 - accuracy: 0.997 - ETA: 41s - loss: 0.0225 - accuracy: 0.997 - ETA: 41s - loss: 0.0228 - accuracy: 0.997 - ETA: 41s - loss:
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09 - accuracy: 0.997 - ETA: 39s - loss: 0.0207 - accuracy: 0.997 - ETA: 39s - loss: 0.0205 - accuracy: 0.997 - ETA: 39s - loss: 0.0204
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acy: 0.997 - ETA: 36s - loss: 0.0182 - accuracy: 0.997 - ETA: 36s - loss: 0.0180 - accuracy: 0.997 - ETA: 36s - loss: 0.0179 - accuracy
9: 0.997 - ETA: 35s - loss: 0.0178 - accuracy: 0.997 - ETA: 35s - loss: 0.0176 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - loss: 0.0193 - accuracy: 0.997 - ETA: 35s - 
997 - ETA: 34s - loss: 0.0208 - accuracy: 0.997 - ETA: 34s - loss: 0.0206 - accuracy: 0.997 - ETA: 34s - loss: 0.0201 - accuracy: 0.997 - ETA: 34s - loss: 0.0201 - accuracy: 0.997
  - ETA: 33s - loss: 0.0199 - accuracy: 0.997 - ETA: 33s - loss: 0.0198 - accuracy: 0.997 - ETA: 33s - loss: 0.0197 - accuracy: 0.997 -
ETA: 33s - loss: 0.0196 - accuracy: 0.997 - ETA: 32s - loss: 0.0194 - accuracy: 0.997 - ETA: 32s - loss: 0.0193 - accuracy: 0.997 - ET
A: 32s - loss: 0.0192 - accuracy: 0.997 - ETA: 32s - loss: 0.0191 - accuracy: 0.997 - ETA: 32s - loss: 0.0189 - accuracy: 0.997 - ETA:
32s - loss: 0.0188 - accuracy: 0.997 - ETA: 31s - loss: 0.0187 - accuracy: 0.997 - ETA: 31s - loss: 0.0186 - accuracy: 0.997 - ETA: 31
s - loss: 0.0185 - accuracy: 0.997 - ETA: 31s - loss: 0.0184 - accuracy: 0.997 - ETA: 30s - loss: 0.0182 - accuracy: 0.997 - ETA: 30s
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loss: 0.0178 - accuracy: 0.997 - ETA: 30s - loss: 0.0177 - accuracy: 0.997 - ETA: 29s - loss: 0.0176 - accuracy: 0.997 - ETA: 29s - lo
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uracy: 0.997 - ETA: 25s - loss: 0.0203 - accuracy: 0.997 - ETA: 24s - loss: 0.0211 - accuracy: 0.997 - ETA: 24s - loss: 0.0220 - accur
acy: 0.997 - ETA: 24s - loss: 0.0219 - accuracy: 0.997 - ETA: 24s - loss: 0.0218 - accuracy: 0.997 - ETA: 24s - loss: 0.0218 - accuracy
y: 0.997 - ETA: 24s - loss: 0.0217 - accuracy: 0.997 - ETA: 23s - loss: 0.0225 - accuracy: 0.997 - ETA: 23s - loss: 0.0224 - accuracy:
ó.997 - ETA: 23s - loss: 0.0224 - accuracy: ó.997 - ETA: 23s - loss: 0.0223 - accuracy: ó.997 - ETA: 23s - loss: 0.0223 - accuracy: ó.
997 - ETA: 23s - loss: 0.0222 - accuracy: 0.997 - ETA: 22s - loss: 0.0222 - accuracy: 0.997 - ETA: 22s - loss: 0.0221 - accuracy: 0.99
7 - ETA: 22s - loss: 0.0220 - accuracy: 0.997 - ETA: 22s - loss: 0.0219 - accuracy: 0.997 - ETA: 22s - loss: 0.0219 - accuracy: 0.997
21s - loss: 0.0223 - accuracy: 0.997 - ETA: 21s - loss: 0.0222 - accuracy: 0.997 - ETA: 20s - loss: 0.0221 - accuracy: 0.997 - ETA: 20s - loss: 0.0228 - accuracy: 0.997 - ETA: 20s - loss: 0.0219 - accuracy: 0.997 - ETA: 20s - loss: 0.0218 - accuracy: 0.997 - ETA: 20s - loss: 0.0227 - accuracy: 0.997 - ETA: 19s - loss: 0.0226 - accuracy: 0.997 - ETA: 19s -
loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0224 - accuracy: 0.997 - ETA: 19s - loss: 0.0223 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - accuracy: 0.997
ss: 0.0222 - accuracy: 0.997 - ETA: 19s - loss: 0.0221 - accuracy: 0.997 - ETA: 18s - loss: 0.0220 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy:
0.0217 - accuracy: 0.997 - ETA: 18s - loss: 0.0216 - accuracy: 0.997 - ETA: 17s - loss: 0.0215 - accuracy: 0.997 - ETA: 17s - loss: 0.
0214 - accuracy: 0.997 - ETA: 17s - loss: 0.0213 - accuracy: 0.997 - ETA: 17s - loss: 0.0212 - accuracy: 0.997 - ETA: 17s - loss: 0.02
11 - accuracy: 0.997 - ETA: 17s - loss: 0.0211 - accuracy: 0.997 - ETA: 16s - loss: 0.0210 - accuracy: 0.997 - ETA: 16s - loss: 0.0209
- accuracy: 0.997 - ETA: 16s - loss: 0.0208 - accuracy: 0.997 - ETA: 16s - loss: 0.0216 - accuracy: 0.997 - ETA: 16s - loss: 0.0215 -
  accuracy: 0.997 - ETA: 16s - loss: 0.0215 - accuracy: 0.997 - ETA: 15s - loss: 0.0214 - accuracy: 0.997 - ETA: 15s - loss: 0.0213 - a
ccuracy: 0.997 - ETA: 15s - loss: 0.0212 - accuracy: 0.997 - ETA: 15s - loss: 0.0219 - accuracy: 0.997 - ETA: 15s - loss: 0.0227 - acc
uracy: 0.997 - ETA: 15s - loss: 0.0226 - accuracy: 0.997 - ETA: 15s - loss: 0.0225 - accuracy: 0.997 - ETA: 14s - loss: 0.0225 - accur
acy: 0.997 - ETA: 14s - loss: 0.0224 - accuracy: 0.997 - ETA: 14s - loss: 0.0223 - accuracy: 0.997 - ETA: 14s - loss: 0.0222 - accurac
y: 0.997 - ETA: 14s - loss: 0.0222 - accuracy: 0.997 - ETA: 13s - loss: 0.0221 - accuracy: 0.997 - ETA: 13s - loss: 0.0220 - accuracy:
0.997 - ETA: 13s - loss: 0.0220 - accuracy: 0.997 - ETA: 13s - loss: 0.0219 - accuracy: 0.997 - ETA: 13s - loss: 0.0218 - accuracy: 0.
997 - ETA: 13s - loss: 0.0218 - accuracy: 0.997 - ETA: 13s - loss: 0.0217 - accuracy: 0.997 - ETA: 12s - loss: 0.0216 - accuracy: 0.99
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7 - ETA: 12s - loss: 0.0215 - accuracy: 0.997 - ETA: 12s - loss: 0.0215 - accuracy: 0.997 - ETA: 12s - loss: 0.0221 - accuracy: 0.997

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- ETA: 12s - loss: 0.0220 - accuracy: 0.997 - ETA: 12s - loss: 0.0220 - accuracy: 0.997 - ETA: 11s - loss: 0.0219 - accuracy: 0.997 -
ETA: 11s - loss: 0.0218 - accuracy: 0.997 - ETA: 11s - loss: 0.0218 - accuracy: 0.997 - ETA: 11s - loss: 0.0217 - accuracy: 0.997 - ETA
A: 11s - loss: 0.0216 - accuracy: 0.997 - ETA: 11s - loss: 0.0216 - accuracy: 0.997 - ETA: 10s - loss: 0.0215 - accuracy: 0.997 - ETA:
10s - loss: 0.0214 - accuracy: 0.997 - ETA: 10s - loss: 0.0214 - accuracy: 0.997 - ETA: 10s - loss: 0.0213 - accuracy: 0.997 - ETA: 10
s - loss: 0.0212 - accuracy: 0.997 - ETA: 10s - loss: 0.0212 - accuracy: 0.997 - ETA: 10s - loss: 0.0211 - accuracy: 0.997 - ETA: 9s -
loss: 0.0210 - accuracy: 0.997 - ETA: 9s - loss: 0.0210 - accuracy: 0.99 - ETA: 9s - loss: 0.0209 - accuracy: 0.99 - ETA: 9s - loss:
 0.0208 - accuracy: 0.99 - ETA: 9s - loss: 0.0208 - accuracy: 0.99 - ETA: 9s - loss: 0.0207 - accuracy: 0.99 - ETA: 8s - loss: 0.0206
 - accuracy: 0.99 - ETA: 8s - loss: 0.0206 - accuracy: 0.99 - ETA: 8s - loss: 0.0205 - accuracy: 0.99 - ETA: 8s - loss: 0.0204 - accur
acy: 0.99 - ETA: 8s - loss: 0.0204 - accuracy: 0.99 - ETA: 8s - loss: 0.0203 - accuracy: 0.99 - ETA: 8s - loss: 0.0202 - accuracy: 0.9
9 - ETA: 7s - loss: 0.0202 - accuracy: 0.99 - ETA: 7s - loss: 0.0208 - accuracy: 0.99 - ETA: 7s - loss: 0.0207 - accuracy: 0.99 - ETA:
7s - loss: 0.0207 - accuracy: 0.99 - ETA: 7s - loss: 0.0206 - accuracy: 0.99 - ETA: 7s - loss: 0.0206 - accuracy: 0.99 - ETA: 7s - los
s: 0.0205 - accuracy: 0.99 - ETA: 6s - loss: 0.0204 - accuracy: 0.99 - ETA: 6s - loss: 0.0204 - accuracy: 0.99 - ETA: 6s - loss: 0.020
3 - accuracy: 0.99 - ETA: 6s - loss: 0.0202 - accuracy: 0.99 - ETA: 6s - loss: 0.0202 - accuracy: 0.99 - ETA: 6s - loss: 0.0208 - accu
racy: 0.99 - ETA: 5s - loss: 0.0208 - accuracy: 0.99 - ETA: 5s - loss: 0.0207 - accuracy: 0.99 - ETA: 5s - loss: 0.0206 - accuracy: 0.
99 - ETA: 5s - loss: 0.0206 - accuracy: 0.99 - ETA: 5s - loss: 0.0205 - accuracy: 0.99 - ETA: 5s - loss: 0.0205 - accuracy: 0.99 - ET
A: 4s - loss: 0.0204 - accuracy: 0.99 - ETA: 4s - loss: 0.0203 - accuracy: 0.99 - ETA: 4s - loss: 0.0203 - accuracy: 0.99 - ETA: 4s -
 loss: 0.0209 - accuracy: 0.99 - ETA: 4s - loss: 0.0208 - accuracy: 0.99 - ETA: 4s - loss: 0.0208 - accuracy: 0.99 - ETA: 3s - loss:
 0.0207 - accuracy: 0.99 - ETA: 3s - loss: 0.0207 - accuracy: 0.99 - ETA: 3s - loss: 0.0206 - accuracy: 0.99 - ETA: 3s - loss: 0.0206
 - accuracy: 0.99 - ETA: 3s - loss: 0.0205 - accuracy: 0.99 - ETA: 3s - loss: 0.0205 - accuracy: 0.99 - ETA: 2s - loss: 0.0204 - accur
acy: 0.99 - ETA: 2s - loss: 0.0204 - accuracy: 0.99 - ETA: 2s - loss: 0.0203 - accuracy: 0.99 - ETA: 2s - loss: 0.0202 - accuracy: 0.9
9 - ETA: 2s - loss: 0.0202 - accuracy: 0.99 - ETA: 2s - loss: 0.0201 - accuracy: 0.99 - ETA: 1s - loss: 0.0201 - accuracy: 0.99 - ETA:
1s - loss: 0.0200 - accuracy: 0.99 - ETA: 1s - loss: 0.0200 - accuracy: 0.99 - ETA: 1s - loss: 0.0199 - accuracy: 0.99 - ETA: 1s - los
s: 0.0199 - accuracy: 0.99 - ETA: 1s - loss: 0.0198 - accuracy: 0.99 - ETA: 0s - loss: 0.0198 - accuracy: 0.99 - ETA: 0s - loss: 0.019
7 - accuracy: 0.99 - ETA: 0s - loss: 0.0197 - accuracy: 0.99 - ETA: 0s - loss: 0.0196 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s -
acy: 0.9968
Enoch 29/50
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186/322 [=========>......] - ETA: 0s - loss: 0.0028 - accuracy: 1.00 - ETA: 52s - loss: 0.0027 - accuracy: 1.000 - ETA:
1:07 - loss: 0.0027 - accuracy: 1.00 - ETA: 1:15 - loss: 0.0027 - accuracy: 1.00 - ETA: 1:30 - loss: 0.0027 - accuracy: 1.00 - ETA:
 1:27 - loss: 0.0027 - accuracy: 1.00 - ETA: 1:27 - loss: 0.0026 - accuracy: 1.00 - ETA: 1:27 - loss: 0.0026 - accuracy: 1.00 - ETA:
 1:34 - loss: 0.0026 - accuracy: 1.00 - ETA: 1:40 - loss: 0.0026 - accuracy: 1.00 - ETA: 1:40 - loss: 0.0025 - accuracy: 1.00 - ETA:
 1:41 - loss: 0.0025 - accuracy: 1.00 - ETA: 1:43 - loss: 0.0025 - accuracy: 1.00 - ETA: 1:55 - loss: 0.0025 - accuracy: 1.00 - ETA:
 1:55 - loss: 0.0025 - accuracy: 1.00 - ETA: 1:52 - loss: 0.0025 - accuracy: 1.00 - ETA: 1:54 - loss: 0.0155 - accuracy: 0.99 - ETA:
 2:05 - loss: 0.0148 - accuracy: 0.99 - ETA: 2:23 - loss: 0.0141 - accuracy: 0.99 - ETA: 2:22 - loss: 0.0136 - accuracy: 0.99 - ETA:
 2:19 - loss: 0.0131 - accuracy: 0.99 - ETA: 2:19 - loss: 0.0126 - accuracy: 0.99 - ETA: 2:20 - loss: 0.0122 - accuracy: 0.99 - ETA:
 2:21 - loss: 0.0118 - accuracy: 0.99 - ETA: 2:18 - loss: 0.0114 - accuracy: 0.99 - ETA: 2:15 - loss: 0.0111 - accuracy: 0.99 - ETA:
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 2:12 - loss: 0.0099 - accuracy: 0.99 - ETA: 2:10 - loss: 0.0097 - accuracy: 0.99 - ETA: 2:10 - loss: 0.0095 - accuracy: 0.99 - ETA:
 2:09 - loss: 0.0093 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0091 - accuracy: 0.99 - ETA: 2:06 - loss: 0.0089 - accuracy: 0.99 - ETA:
 2:05 - loss: 0.0087 - accuracy: 0.99 - ETA: 2:08 - loss: 0.0085 - accuracy: 0.99 - ETA: 2:06 - loss: 0.0084 - accuracy: 0.99 - ETA:
 2:04 - loss: 0.0082 - accuracy: 0.99 - ETA: 2:04 - loss: 0.0081 - accuracy: 0.99 - ETA: 2:03 - loss: 0.0080 - accuracy: 0.99 - ETA:
 2:02 - loss: 0.0078 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0077 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0076 - accuracy: 0.99 - ETA:
 2:00 - loss: 0.0173 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0170 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0167 - accuracy: 0.99 - ETA:
 1:58 - loss: 0.0164 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0162 - accuracy: 0.99 - ETA: 1:57 - loss: 0.0159 - accuracy: 0.99 - ETA:
 1:57 - loss: 0.0157 - accuracy: 0.99 - ETA: 1:56 - loss: 0.0155 - accuracy: 0.99 - ETA: 1:56 - loss: 0.0153 - accuracy: 0.99 - ETA:
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 1:53 - loss: 0.0178 - accuracy: 0.99 - ETA: 1:53 - loss: 0.0175 - accuracy: 0.99 - ETA: 1:52 - loss: 0.0173 - accuracy: 0.99 - ETA:
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 1:47 - loss: 0.0160 - accuracy: 0.99 - ETA: 1:46 - loss: 0.0159 - accuracy: 0.99 - ETA: 1:46 - loss: 0.0157 - accuracy: 0.99 - ETA:
 1:45 - loss: 0.0155 - accuracy: 0.99 - ETA: 1:44 - loss: 0.0179 - accuracy: 0.99 - ETA: 1:43 - loss: 0.0178 - accuracy: 0.99 - ETA:
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 1:39 - loss: 0.0171 - accuracy: 0.99 - ETA: 1:38 - loss: 0.0169 - accuracy: 0.99 - ETA: 1:38 - loss: 0.0168 - accuracy: 0.99 - ETA:
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 1:29 - loss: 0.0153 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0151 - accuracy: 0.99 - ETA: 1:27 - loss: 0.0150 - accuracy: 0.99 - ETA:
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 1:20 - loss: 0.0138 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0136 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0135 - accuracy: 0.99 - ETA:
 1:18 - loss: 0.0156 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0154 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0173 - accuracy: 0.99 - ETA:
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 1:14 - loss: 0.0168 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0167 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0166 - accuracy: 0.99 - ETA:
 1:12 - loss: 0.0165 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0164 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0163 - accuracy: 0.99 - ETA:
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 1:09 - loss: 0.0158 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0157 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0156 - accuracy: 0.99 - ETA:
 1:07 - loss: 0.0155 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0154 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0153 - accuracy: 0.99 - ETA:
 1:06 - loss: 0.0152 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0183 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0182 - accuracy: 0.99 - ETA:
 1:04 - loss: 0.0181 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0180 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0179 - accuracy: 0.99 - ETA:
 1:03 - loss: 0.0178 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0177 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0176 - accuracy: 0.99 - ETA:
 1:01 - loss: 0.0175 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0174 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0173 - accuracy: 0.99 - ETA:
 1:00 - loss: 0.0172 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0172 - accuracy: 0.99 - ETA: 59s - loss: 0.0184 - accuracy: 0.9977 - ETA:
 58s - loss: 0.0183 - accuracy: 0.997 - ETA: 58s - loss: 0.0182 - accuracy: 0.997 - ETA: 57s - loss: 0.0181 - accuracy: 0.997 - ETA: 5
7s - loss: 0.0180 - accuracy: 0.997 - ETA: 57s - loss: 0.0179 - accuracy: 0.997 - ETA: 56s - loss: 0.0191 - accuracy: 0.997 - ETA: 56s
- loss: 0.0190 - accuracy: 0.997 - ETA: 55s - loss: 0.0189 - accuracy: 0.997 - ETA: 55s - loss: 0.0189 - accuracy: 0.997 - ETA: 54s - loss: 0.0188 - accuracy: 0.997 - ETA: 54s - loss: 0.0186 - accuracy: 0.997 - ETA: 53s - l
oss: 0.0185 - accuracy: 0.997 - ETA: 53s - loss: 0.0184 - accuracy: 0.997 - ETA: 53s - loss: 0.0183 - accuracy: 0.997 - ETA: 52s - los
s: 0.0183 - accuracy: 0.997 - ETA: 52s - loss: 0.0182 - accuracy: 0.997 - ETA: 52s - loss: 0.0181 - accuracy: 0.997 - ETA: 52s - loss:
0.0180 - accuracy: 0.997 - ETA: 51s - loss: 0.0179 - accuracy: 0.997 - ETA: 51s - loss: 0.0178 - accuracy: 0.997 - ETA: 51s - loss: 0.
0177 - accuracy: 0.997 - ETA: 51s - loss: 0.0176 - accuracy: 0.997 - ETA: 51s - loss: 0.0176 - accuracy: 0.997 - ETA: 51s - loss: 0.01
75 - accuracy: 0.997 - ETA: 51s - loss: 0.0174 - accuracy: 0.997 - ETA: 51s - loss: 0.0173 - accuracy: 0.997 - ETA: 50s - loss: 0.0184
- accuracy: 0.997 - ETA: 50s - loss: 0.0183 - accuracy: 0.997 - ETA: 50s - loss: 0.0182 - accuracy: 0.997 - ETA: 50s - loss: 0.0181 -
 accuracy: 0.997 - ETA: 49s - loss: 0.0193 - accuracy: 0.997 - ETA: 49s - loss: 0.0192 - accuracy: 0.997 - ETA: 49s - loss: 0.0191 - a
ccuracy: 0.997 - ETA: 49s - loss: 0.0190 - accuracy: 0.997 - ETA: 48s - loss: 0.0189 - accuracy: 0.997 - ETA: 48s - loss: 0.0188 - acc
uracy: 0.997 - ETA: 48s - loss: 0.0187 - accuracy: 0.997 - ETA: 48s - loss: 0.0187 - accuracy: 0.997 - ETA: 47s - loss: 0.0186 - accur
acy: 0.997 - ETA: 47s - loss: 0.0185 - accuracy: 0.997 - ETA: 47s - loss: 0.0184 - accuracy: 0.997 - ETA: 47s - loss: 0.0183 - accurac
y: 0.997 - ETA: 46s - loss: 0.0183 - accuracy: 0.997 - ETA: 46s - loss: 0.0182 - accuracy: 0.997 - ETA: 46s - loss: 0.0181 - accuracy:
0.997 - ETA: 45s - loss: 0.0190 - accuracy: 0.997 - ETA: 45s - loss: 0.0189 - accuracy: 0.997 - ETA: 45s - loss: 0.0199 - accuracy: 0.
9975322/322 [=======================] - ETA: 44s - loss: 0.0198 - accuracy: 0.997 - ETA: 44s - loss: 0.0197 - accuracy: 0.997 -
```

ETA: 44s - loss: 0.0197 - accuracy: 0.997 - ETA: 43s - loss: 0.0196 - accuracy: 0.997 - ETA: 43s - loss: 0.0195 - accuracy: 0.997 - ET

A: 42s - loss: 0.0195 - accuracy: 0.997 - ETA: 42s - loss: 0.0194 - accuracy: 0.997 - ETA: 41s - loss: 0.0193 - accuracy: 0.997 - ETA: 41s - loss: 0.0192 - accuracy: 0.997 - ETA: 40s - loss: 0.0191 s - loss: 0.0190 - accuracy: 0.997 - ETA: 40s - loss: 0.0190 - accuracy: 0.997 - ETA: 39s - loss: 0.0189 - accuracy: 0.997 - ETA: 39s - loss: 0.0188 - accuracy: 0.997 - ETA: 38s - loss: 0.0187 - accuracy: 0.997 - ETA: 38s - loss: 0.0196 - acc loss: 0.0195 - accuracy: 0.997 - ETA: 37s - loss: 0.0195 - accuracy: 0.997 - ETA: 37s - loss: 0.0194 - accuracy: 0.997 - ETA: 37s - lo ss: 0.0193 - accuracy: 0.997 - ETA: 36s - loss: 0.0192 - accuracy: 0.997 - ETA: 36s - loss: 0.0192 - accuracy: 0.997 - ETA: 35s - los s: 0.0191 - accuracy: 0.997 - ETA: 35s - loss: 0.0190 - accuracy: 0.997 - ETA: 35s - loss: 0.0190 - accuracy: 0.997 - ETA: 34s - loss: 0.0189 - accuracy: 0.997 - ETA: 34s - loss: 0.0188 - accuracy: 0.997 - ETA: 34s - loss: 0.0187 - accuracy: 0.997 - ETA: 33s - loss: 0. 0187 - accuracy: 0.997 - ETA: 33s - loss: 0.0186 - accuracy: 0.997 - ETA: 32s - loss: 0.0185 - accuracy: 0.997 - ETA: 32s - loss: 0.01 85 - accuracy: 0.997 - ETA: 32s - loss: 0.0193 - accuracy: 0.997 - ETA: 31s - loss: 0.0192 - accuracy: 0.997 - ETA: 31s - loss: 0.0192 - accuracy: 0.997 - ETA: 31s - loss: 0.0191 - accuracy: 0.997 - ETA: 30s - loss: 0.0190 - accuracy: 0.997 - ETA: 30s - loss: 0.0189 - accuracy: 0.997 - ETA: 30s - loss: 0.0189 - accuracy: 0.997 - ETA: 30s - loss: 0.0189 - accuracy: 0.997 - ETA: 29s - loss: 0.0187 - a ccuracy: 0.997 - ETA: 28s - loss: 0.0187 - accuracy: 0.997 - ETA: 28s - loss: 0.0186 - accuracy: 0.997 - ETA: 28s - loss: 0.0185 - acc uracy: 0.997 - ETA: 27s - loss: 0.0185 - accuracy: 0.997 - ETA: 27s - loss: 0.0184 - accuracy: 0.997 - ETA: 27s - loss: 0.0183 - accur acy: 0.997 - ETA: 26s - loss: 0.0183 - accuracy: 0.997 - ETA: 26s - loss: 0.0182 - accuracy: 0.997 - ETA: 26s - loss: 0.0182 - accuracy y: 0.997 - ETA: 25s - loss: 0.0181 - accuracy: 0.997 - ETA: 25s - loss: 0.0180 - accuracy: 0.997 - ETA: 25s - loss: 0.0180 - accuracy: 0.997 - ETA: 24s - loss: 0.0179 - accuracy: 0.997 - ETA: 24s - loss: 0.0178 - accuracy: 0.997 - ETA: 24s - loss: 0.0178 - accuracy: 0. 997 - ETA: 23s - loss: 0.0177 - accuracy: 0.997 - ETA: 23s - loss: 0.0176 - accuracy: 0.997 - ETA: 23s - loss: 0.0176 - accuracy: 0.99 7 - ETA: 22s - loss: 0.0184 - accuracy: 0.997 - ETA: 22s - loss: 0.0183 - accuracy: 0.997 - ETA: 22s - loss: 0.0182 - accuracy: 0.997 - ETA: 21s - loss: 0.0182 - accuracy: 0.997 - ETA: 21s - loss: 0.0189 - accuracy: 0.997 - ETA: 21s - loss: 0.0189 - accuracy: 0.997 -ETA: 20s - loss: 0.0188 - accuracy: 0.997 - ETA: 20s - loss: 0.0187 - accuracy: 0.997 - ETA: 20s - loss: 0.0187 - accuracy: 0.997 - ETA A: 19s - loss: 0.0186 - accuracy: 0.997 - ETA: 19s - loss: 0.0186 - accuracy: 0.997 - ETA: 19s - loss: 0.0185 - accuracy: 0.997 - ETA: 18s - loss: 0.0185 - accuracy: 0.997 - ETA: 18s - loss: 0.0184 - accuracy: 0.997 - ETA: 18s - loss: 0.0183 - accuracy: 0.997 - ETA: 17 s - loss: 0.0183 - accuracy: 0.997 - ETA: 17s - loss: 0.0182 - accuracy: 0.997 - ETA: 17s - loss: 0.0181 - accuracy: 0.997 - ETA: 16s - loss: 0.0188 - accuracy: 0.997 - ETA: 16s - loss: 0.0187 - acc loss: 0.0187 - accuracy: 0.997 - ETA: 15s - loss: 0.0186 - accuracy: 0.997 - ETA: 15s - loss: 0.0186 - accuracy: 0.997 - ETA: 15s - loss: 0.0186 - accuracy: 0.997 - ETA: 15s - loss: 0.0186 - accuracy: 0.997 - ETA: 14s - loss: 0.0185 - accuracy: 0.997 - ETA: 14s - loss: 0.0185 - accuracy: 0.997 - ETA: 14s - loss: 0.0185 - accuracy: 0.997 - ETA: 14s - loss: 0.0186 - accurac s: 0.0184 - accuracy: 0.997 - ETA: 13s - loss: 0.0183 - accuracy: 0.997 - ETA: 13s - loss: 0.0183 - accuracy: 0.997 - ETA: 13s - loss: 0.0182 - accuracy: 0.997 - ETA: 13s - loss: 0.0188 - accuracy: 0.997 - ETA: 12s - loss: 0.0188 - accuracy: 0.997 - ETA: 12s - loss: 0. 0187 - accuracy: 0.997 - ETA: 12s - loss: 0.0187 - accuracy: 0.997 - ETA: 11s - loss: 0.0186 - accuracy: 0.997 - ETA: 11s - loss: 0.01 92 - accuracy: 0.997 - ETA: 11s - loss: 0.0192 - accuracy: 0.997 - ETA: 11s - loss: 0.0191 - accuracy: 0.997 - ETA: 10s - loss: 0.0191 - accuracy: 0.997 - ETA: 10s - loss: 0.0190 - accuracy: 0.997 - ETA: 10s - loss: 0.0190 - accuracy: 0.997 - ETA: 9s - loss: 0.0189 - a ccuracy: 0.997 - ETA: 9s - loss: 0.0189 - accuracy: 0.99 - ETA: 9s - loss: 0.0188 - accuracy: 0.99 - ETA: 9s - loss: 0.0188 - accuracy y: 0.99 - ETA: 8s - loss: 0.0187 - accuracy: 0.99 - ETA: 8s - loss: 0.0187 - accuracy: 0.99 - ETA: 8s - loss: 0.0186 - accuracy: 0.99 - ETA: 7s - loss: 0.0186 - accuracy: 0.99 - ETA: 7s - loss: 0.0185 - accuracy: 0.99 - ETA: 7s - loss: 0.0185 - accuracy: 0.99 - ETA: 6s - loss: 0.0185 - accuracy: 0.99 - ETA: 6s - loss: 0.0184 - accuracy: 0.99 - ETA: 6s - loss: 0.0196 - accuracy: 0.99 - ETA: 5s - lo ss: 0.0195 - accuracy: 0.99 - ETA: 5s - loss: 0.0195 - accuracy: 0.99 - ETA: 5s - loss: 0.0194 - accuracy: 0.99 - ETA: 5s - loss: 0.01 94 - accuracy: 0.99 - ETA: 4s - loss: 0.0193 - accuracy: 0.99 - ETA: 4s - loss: 0.0193 - accuracy: 0.99 - ETA: 4s - loss: 0.0193 - acc uracy: 0.99 - ETA: 3s - loss: 0.0192 - accuracy: 0.99 - ETA: 3s - loss: 0.0192 - accuracy: 0.99 - ETA: 3s - loss: 0.0197 - accuracy: 0.99 - ETA: 2s - loss: 0.0196 - accuracy: 0.99 - ETA: 2s - loss: 0.0196 - accuracy: 0.99 - ETA: 2s - loss: 0.0196 - accuracy: 0.99 -ETA: 2s - loss: 0.0195 - accuracy: 0.99 - ETA: 1s - loss: 0.0195 - accuracy: 0.99 - ETA: 1s - loss: 0.0194 - accuracy: 0.99 - ETA: 1s - loss: 0.0199 - accuracy: 0.99 - ETA: 0s - loss: 0.0199 - accuracy: 0.99 - ETA: 0s - loss: 0.0198 - accuracy: 0.99 - ETA: 0s - loss: 0.0198 - accuracy: 0.99 - ETA: 0s - loss: 0.0198 - accuracy: 0.99 - 98s 305ms/step - loss: 0.0198 - accuracy: 0.9975 - val_loss: 0.02 30 - val accuracy: 0.9968 Epoch 30/50

186/322 [==========>............] - ETA: 0s - loss: 0.0060 - accuracy: 1.00 - ETA: 35s - loss: 0.0061 - accuracy: 1.000 - ETA: 46s - loss: 0.0663 - accuracy: 0.989 - ETA: 52s - loss: 0.0512 - accuracy: 0.992 - ETA: 52s - loss: 0.0423 - accuracy: 0.993 - ETA: 5 4s - loss: 0.0363 - accuracy: 0.994 - ETA: 1:00 - loss: 0.0320 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0288 - accuracy: 0.99 - ETA: 1:0 2 - loss: 0.0263 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0214 - accuracy: 0.99 - ETA: 5:00 - loss: 0.0226 - accuracy: 0.997 - ETA: 5:00 - loss: 0.0212 - accuracy: 0.997 - ETA: 1:00 - loss: 0.0199 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0189 - accuracy: 0.999 - ETA: 1:04 - loss: 0.0179 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0171 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0163 - accuracy: 0.99 - ETA: 1:01 loss: 0.0156 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0150 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0144 - accuracy: 0.99 - ETA: 1:03 - lo ss: 0.0139 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0134 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0130 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0126 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0122 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0118 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0115 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0112 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0109 - accuracy: 0.99 - ETA: 1:02 - loss: 0. 0106 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0103 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0101 - accuracy: 0.99 - ETA: 1:00 - loss: 0.00 98 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0096 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0094 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0153 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0209 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0204 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0200 accuracy: 0.99 - ETA: 1:00 - loss: 0.0196 - accuracy: 0.99 - ETA: 59s - loss: 0.0192 - accuracy: 0.9977 - ETA: 1:00 - loss: 0.0188 accuracy: 0.99 - ETA: 1:00 - loss: 0.0185 - accuracy: 0.99 - ETA: 59s - loss: 0.0181 - accuracy: 0.9979 - ETA: 59s - loss: 0.0178 - a ccuracy: 0.997 - ETA: 58s - loss: 0.0175 - accuracy: 0.998 - ETA: 58s - loss: 0.0172 - accuracy: 0.998 - ETA: 57s - loss: 0.0169 - acc uracy: 0.998 - ETA: 58s - loss: 0.0166 - accuracy: 0.998 - ETA: 58s - loss: 0.0164 - accuracy: 0.998 - ETA: 57s - loss: 0.0161 - accur acy: 0.998 - ETA: 57s - loss: 0.0159 - accuracy: 0.998 - ETA: 57s - loss: 0.0229 - accuracy: 0.997 - ETA: 56s - loss: 0.0225 - accuracy y: 0.997 - ETA: 56s - loss: 0.0222 - accuracy: 0.997 - ETA: 56s - loss: 0.0219 - accuracy: 0.997 - ETA: 56s - loss: 0.0216 - accuracy: ó.997 - ETA: 55s - loss: 0.0214 - accuracy: ó.997 - ETA: 55s - loss: 0.0211 - accuracy: ó.997 - ETA: 55s - loss: 0.0209 - accuracy: ó. 997 - ETA: 54s - loss: 0.0206 - accuracy: 0.997 - ETA: 54s - loss: 0.0204 - accuracy: 0.997 - ETA: 54s - loss: 0.0202 - accuracy: 0.99 7 - ETA: 54s - loss: 0.0200 - accuracy: 0.997 - ETA: 54s - loss: 0.0197 - accuracy: 0.997 - ETA: 53s - loss: 0.0195 - accuracy: 0.997 - ETA: 53s - loss: 0.0193 - accuracy: 0.997 - ETA: 53s - loss: 0.0191 - accuracy: 0.997 - ETA: 53s - loss: 0.0189 - accuracy: 0.997 -ETA: 53s - loss: 0.0187 - accuracy: 0.997 - ETA: 52s - loss: 0.0185 - accuracy: 0.997 - ETA: 52s - loss: 0.0183 - accuracy: 0.997 - ETA A: 52s - loss: 0.0181 - accuracy: 0.997 - ETA: 51s - loss: 0.0179 - accuracy: 0.997 - ETA: 51s - loss: 0.0177 - accuracy: 0.997 - ETA: 51s - loss: 0.0175 - accuracy: 0.997 - ETA: 51s - loss: 0.0173 - accuracy: 0.998 - ETA: 51s - loss: 0.0172 - accuracy: 0.998 - ETA: 50 s - loss: 0.0170 - accuracy: 0.998 - ETA: 50s - loss: 0.0163 - accuracy: 0.998 - ETA: 50s - loss: 0.0166 - accuracy: 0.998 - ETA: 50s - loss: 0.0161 - accuracy: 0.998 - ETA: 49s - loss: 0.0165 - accuracy: 0.998 - ETA: 50s - loss: 0.0163 - accuracy: 0.998 - ETA: 49s - loss: 0.0165 - accuracy: 0.998 - ETA: 49s - loss: 0.0161 - acc loss: 0.0160 - accuracy: 0.998 - ETA: 49s - loss: 0.0158 - accuracy: 0.998 - ETA: 48s - loss: 0.0157 - accuracy: 0.998 - ETA: 48s - lo ss: 0.0155 - accuracy: 0.998 - ETA: 48s - loss: 0.0154 - accuracy: 0.998 - ETA: 48s - loss: 0.0152 - accuracy: 0.998 - ETA: 48s - los s: 0.0151 - accuracy: 0.998 - ETA: 47s - loss: 0.0149 - accuracy: 0.998 - ETA: 47s - loss: 0.0148 - accuracy: 0.998 - ETA: 47s - loss: 0.0147 - accuracy: 0.998 - ETA: 46s - loss: 0.0145 - accuracy: 0.998 - ETA: 46s - loss: 0.0144 - accuracy: 0.998 - ETA: 46s - loss: 0. 0165 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0162 - accuracy: 0.998 - ETA: 45s - loss: 0.01 61 - accuracy: 0.998 - ETA: 45s - loss: 0.0160 - accuracy: 0.998 - ETA: 45s - loss: 0.0158 - accuracy: 0.998 - ETA: 45s - loss: 0.0157 - accuracy: 0.998 - ETA: 45s - loss: 0.0156 - accuracy: 0.998 - ETA: 45s - loss: 0.0154 - accuracy: 0.998 - ETA: 45s - loss: 0.0153 accuracy: 0.998 - ETA: 44s - loss: 0.0152 - accuracy: 0.998 - ETA: 44s - loss: 0.0151 - accuracy: 0.998 - ETA: 44s - loss: 0.0150 - a ccuracy: 0.998 - ETA: 44s - loss: 0.0149 - accuracy: 0.998 - ETA: 44s - loss: 0.0147 - accuracy: 0.998 - ETA: 44s - loss: 0.0146 - acc uracy: 0.998 - ETA: 43s - loss: 0.0145 - accuracy: 0.998 - ETA: 43s - loss: 0.0144 - accuracy: 0.998 - ETA: 43s - loss: 0.0145 - accuracy: 0.998 - ETA: 43s - loss: 0.998 - ETA: 43s - los acy: 0.998 - ETA: 43s - loss: 0.0142 - accuracy: 0.998 - ETA: 43s - loss: 0.0141 - accuracy: 0.998 - ETA: 43s - loss: 0.0140 - accurac y: 0.998 - ETA: 43s - loss: 0.0139 - accuracy: 0.998 - ETA: 42s - loss: 0.0156 - accuracy: 0.998 - ETA: 42s - loss: 0.0172 - accuracy: 0.997 - ETA: 42s - loss: 0.0187 - accuracy: 0.997 - ETA: 42s - loss: 0.0186 - accuracy: 0.997 - ETA: 42s - loss: 0.0185 - accuracy: 0. 997 - ETA: 42s - loss: 0.0184 - accuracy: 0.997 - ETA: 41s - loss: 0.0183 - accuracy: 0.997 - ETA: 42s - loss: 0.0182 - accuracy: 0.99 7 - ETA: 41s - loss: 0.0181 - accuracy: 0.997 - ETA: 41s - loss: 0.0180 - accuracy: 0.997 - ETA: 41s - loss: 0.0179 - accuracy: 0.997 - ETA: 41s - loss: 0.0178 - accuracy: 0.997 - ETA: 40s - loss: 0.0177 - accuracy: 0.997 - ETA: 40s - loss: 0.0176 - accuracy: 0.997 -ETA: 40s - loss: 0.0176 - accuracy: 0.997 - ETA: 40s - loss: 0.0175 - accuracy: 0.997 - ETA: 40s - loss: 0.0171 - accuracy: 0.997 - ETA: 40s - loss: 0.0173 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.998 - ETA: 39s - loss: 0.0171 - accuracy: 0.998 - ETA:

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39s - loss: 0.0170 - accuracy: 0.998 - ETA: 39s - loss: 0.0170 - accuracy: 0.998 - ETA: 39s - loss: 0.0169 - accuracy: 0.998 - ETA: 39s - loss: 0.0168 - accuracy: 0.998 - ETA: 39s - loss: 0.0167 - accuracy: 0.998 - ETA: 40s - loss: 0.0166 - accuracy: 0.998 - ETA: 40s
    - loss: 0.0165 - accuracy: 0.998 - ETA: 40s - loss: 0.0177 - accuracy: 0.997 - ETA: 40s - loss: 0.0176 - accuracy: 0.997 - ETA: 40s -
loss: 0.0175 - accuracy: 0.997 - ETA: 40s - loss: 0.0187 - accuracy: 0.997 - ETA: 40s - loss: 0.0186 - accuracy: 0.997 - ETA: 40s - lo
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 0.0191 - accuracy: 0.997 - ETA: 40s - loss: 0.0190 - accuracy: 0.997 - ETA: 40s - loss: 0.0200 - accuracy: 0.997 - ETA: 40s - loss: 0.
0199 - accuracy: 0.997 - ETA: 40s - loss: 0.0198 - accuracy: 0.997 - ETA: 40s - loss: 0.0207 - accuracy: 0.997 - ETA: 39s - loss: 0.02
 06 - accuracy: 0.997 - ETA: 39s - loss: 0.0205 - accuracy: 0.997 - ETA: 39s - loss: 0.0205 - accuracy: 0.997 - ETA: 39s - loss: 0.0204
 - accuracy: 0.997 - ETA: 39s - loss: 0.0203 - accuracy: 0.997 - ETA: 39s - loss: 0.0203 - accuracy: 0.997 - ETA: 39s - loss: 0.0211 -
  accuracy: 0.997 - ETA: 39s - loss: 0.0210 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - ETA: 39s - loss: 0.0209 - accuracy: 0.997 - accuracy: 
 ccuracy: 0.997 - ETA: 38s - loss: 0.0208 - accuracy: 0.997 - ETA: 38s - loss: 0.0207 - accuracy: 0.997 - ETA: 38s - loss: 0.0206 - acc
 uracy: 0.997 - ETA: 38s - loss: 0.0206 - accuracy: 0.997 - ETA: 38s - loss: 0.0205 - accuracy: 0.997 - ETA: 38s - loss: 0.0204 - accur
 acy: 0.997 - ETA: 37s - loss: 0.0203 - accuracy: 0.997 - ETA: 37s - loss: 0.0202 - accuracy: 0.997 - ETA: 37s - loss: 0.0202 - accuracy
y: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0200 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy:
0.997 - ETA: 36s - loss: 0.0198 - accuracy: 0.9975322/322 [==============] - ETA: 36s - loss: 0.0197 - accuracy: 0.997
 - ETA: 36s - loss: 0.0196 - accuracy: 0.997 - ETA: 36s - loss: 0.0195 - accuracy: 0.997 - ETA: 35s - loss: 0.0195 - accuracy: 0.997 -
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 87 - accuracy: 0.99 - ETA: 4s - loss: 0.0187 - accuracy: 0.99 - ETA: 4s - loss: 0.0186 - accuracy: 0.99 - ETA: 4s - loss: 0.0186 - acc
uracy: 0.99 - ETA: 3s - loss: 0.0185 - accuracy: 0.99 - ETA: 3s - loss: 0.0185 - accuracy: 0.99 - ETA: 3s - loss: 0.0184 - accuracy:
  0.99 - ETA: 2s - loss: 0.0184 - accuracy: 0.99 - ETA: 2s - loss: 0.0183 - accuracy: 0.99 - ETA: 2s - loss: 0.0183 - accuracy: 0.99 -
  ETA: 2s - loss: 0.0182 - accuracy: 0.99 - ETA: 1s - loss: 0.0189 - accuracy: 0.99 - ETA: 1s - loss: 0.0188 - accuracy: 0.99 - ETA: 1s
 - loss: 0.0194 - accuracy: 0.99 - ETA: 1s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss:
  0.0199 - accuracy: 0.99 - ETA: 0s - loss: 0.0199 - accuracy: 0.99 - ETA: 0s - loss: 0.0199 - accuracy: 0.99 - 89s 278ms/step - loss: 0.0199 - accuracy: 0.9975 - val_loss: 0.0238 - val_accuracy: 0.9968
 Epoch 31/50
186/322 [=========>.......] - ETA: 0s - loss: 0.0052 - accuracy: 1.00 - ETA: 50s - loss: 0.0051 - accuracy: 1.000 - ETA:
  59s - loss: 0.0052 - accuracy: 1.000 - ETA: 59s - loss: 0.0053 - accuracy: 1.000 - ETA: 58s - loss: 0.0054 - accuracy: 1.000 - ETA: 5
 7s - loss: 0.0054 - accuracy: 1.000 - ETA: 56s - loss: 0.0055 - accuracy: 1.000 - ETA: 56s - loss: 0.0055 - accuracy: 1.000 - ETA: 1:0
 0 - loss: 0.0055 - accuracy: 1.00 - ETA: 1:00 - loss: 0.0055 - accuracy: 1.00 - ETA: 59s - loss: 0.0054 - accuracy: 1.0000 - ETA: 59s
  - loss: 0.0054 - accuracy: 1.000 - ETA: 59s - loss: 0.0054 - accuracy: 1.000 - ETA: 58s - loss: 0.0053 - accuracy: 1.000 - ETA: 59s -
 loss: 0.0052 - accuracy: 1.000 - ETA: 1:03 - loss: 0.0052 - accuracy: 1.00 - ETA: 1:02 - loss: 0.0051 - accuracy: 1.00 - ETA: 1:01 - l
oss: 0.0051 - accuracy: 1.00 - ETA: 1:01 - loss: 0.0050 - accuracy: 1.00 - ETA: 1:00 - loss: 0.0049 - accuracy: 1.00 - ETA: 59s - los
 s: 0.0048 - accuracy: 1.0000 - ETA: 1:00 - loss: 0.0048 - accuracy: 1.00 - ETA: 1:01 - loss: 0.0047 - accuracy: 1.00 - ETA: 1:01 - los
 s: 0.0046 - accuracy: 1.00 - ETA: 1:01 - loss: 0.0046 - accuracy: 1.00 - ETA: 1:00 - loss: 0.0045 - accuracy: 1.00 - ETA: 1:00 - loss:
 0.0045 - accuracy: 1.00 - ETA: 59s - loss: 0.0044 - accuracy: 1.0000 - ETA: 1:00 - loss: 0.0043 - accuracy: 1.00 - ETA: 1:00 - loss:
  0.0043 - accuracy: 1.00 - ETA: 59s - loss: 0.0042 - accuracy: 1.0000 - ETA: 59s - loss: 0.0042 - accuracy: 1.000 - ETA: 59s - loss:
   0.0041 - accuracy: 1.000 - ETA: 58s - loss: 0.0041 - accuracy: 1.000 - ETA: 58s - loss: 0.0040 - accuracy: 1.000 - ETA: 58s - loss:
   0.0040 - accuracy: 1.000 - ETA: 59s - loss: 0.0039 - accuracy: 1.000 - ETA: 58s - loss: 0.0039 - accuracy: 1.000 - ETA: 58s - loss:
   0.0039 - accuracy: 1.000 - ETA: 58s - loss: 0.0038 - accuracy: 1.000 - ETA: 58s - loss: 0.0038 - accuracy: 1.000 - ETA: 59s - loss:
  0.0038 - accuracy: 1.000 - ETA: 59s - loss: 0.0037 - accuracy: 1.000 - ETA: 58s - loss: 0.0037 - accuracy: 1.000 - ETA: 58s - loss:
   0.0037 - accuracy: 1.000 - ETA: 57s - loss: 0.0036 - accuracy: 1.000 - ETA: 57s - loss: 0.0036 - accuracy: 1.000 - ETA: 57s - loss:
   0.0036 - accuracy: 1.000 - ETA: 57s - loss: 0.0081 - accuracy: 0.999 - ETA: 57s - loss: 0.0080 - accuracy: 0.999 - ETA: 57s - loss:
   0.0079 - accuracy: 0.999 - ETA: 56s - loss: 0.0078 - accuracy: 0.999 - ETA: 56s - loss: 0.0077 - accuracy: 0.999 - ETA: 56s - loss:
   0.0076 - accuracy: 0.999 - ETA: 55s - loss: 0.0075 - accuracy: 0.999 - ETA: 56s - loss: 0.0074 - accuracy: 0.999 - ETA: 57s - loss:
   0.0074 - accuracy: 0.999 - ETA: 59s - loss: 0.0073 - accuracy: 0.999 - ETA: 1:00 - loss: 0.0072 - accuracy: 0.99 - ETA: 1:01 - loss:
   0.0071 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0070 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0070 - accuracy: 0.99 - ETA: 1:01 - loss:
   0.0069 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0068 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0068 - accuracy: 0.99 - ETA: 1:00 - loss:
   0.0067 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0066 - accuracy: 0.99 - ETA: 59s - loss: 0.0066 - accuracy: 0.995 - ETA: 59s - loss:
   0.0065 - accuracy: 0.999 - ETA: 59s - loss: 0.0065 - accuracy: 0.999 - ETA: 58s - loss: 0.0064 - accuracy: 0.999 - ETA: 58s - loss:
   0.0063 - accuracy: 0.999 - ETA: 59s - loss: 0.0063 - accuracy: 0.999 - ETA: 59s - loss: 0.0062 - accuracy: 0.999 - ETA: 59s - loss:
   0.0062 - accuracy: 0.999 - ETA: 59s - loss: 0.0061 - accuracy: 0.999 - ETA: 59s - loss: 0.0061 - accuracy: 0.999 - ETA: 58s - loss:
   0.0060 - accuracy: 0.999 - ETA: 58s - loss: 0.0060 - accuracy: 0.999 - ETA: 58s - loss: 0.0059 - accuracy: 0.999 - ETA: 58s - loss:
   0.0059 - accuracy: 0.999 - ETA: 57s - loss: 0.0059 - accuracy: 0.999 - ETA: 57s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0057 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.999 - ETA: 56s - loss: 0.0058 - accuracy: 0.9
```

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0.0057 - accuracy: 0.999 - ETA: 55s - loss: 0.0056 - accuracy: 0.999 - ETA: 55s - loss: 0.0056 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.999 - ETA: 54s - loss: 0.0055 - accuracy: 0.9
  0.0054 - accuracy: 0.999 - ETA: 53s - loss: 0.0054 - accuracy: 0.999 - ETA: 53s - loss: 0.0077 - accuracy: 0.999 - ETA: 53s - loss:
  0.0077 - accuracy: 0.999 - ETA: 52s - loss: 0.0076 - accuracy: 0.999 - ETA: 52s - loss: 0.0076 - accuracy: 0.999 - ETA: 51s - loss:
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  0.0115 - accuracy: 0.998 - ETA: 49s - loss: 0.0114 - accuracy: 0.998 - ETA: 49s - loss: 0.0114 - accuracy: 0.998 - ETA: 49s - loss:
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  0.0128 - accuracy: 0.998 - ETA: 48s - loss: 0.0128 - accuracy: 0.998 - ETA: 47s - loss: 0.0127 - accuracy: 0.998 - ETA: 47s - loss:
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  0.0180 - accuracy: 0.997 - ETA: 35s - loss: 0.0179 - accuracy: 0.997 - ETA: 35s - loss: 0.0178 - accuracy: 0.997 - ETA: 34s - loss:
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  0.0172 - accuracy: 0.997 - ETA: 33s - loss: 0.0171 - accuracy: 0.997 - ETA: 32s - loss: 0.0170 - accuracy: 0.997 - ETA: 32s - loss:
  0.0170 - accuracy: 0.997 - ETA: 32s - loss: 0.0180 - accuracy: 0.997 - ETA: 32s - loss: 0.0179 - accuracy: 0.997 - ETA: 31s - loss:
  0.0189 - accuracy: 0.997 - ETA: 31s - loss: 0.0188 - accuracy: 0.997 - ETA: 31s - loss: 0.0197 - accuracy: 0.997 - ETA: 31s - loss:
  0.0206 - accuracy: 0.997 - ETA: 30s - loss: 0.0206 - accuracy: 0.997 - ETA: 30s - loss: 0.0206 - accuracy: 0.997 - ETA: 30s - loss:
  0.0206 - accuracy: 0.9973322/322 [===========================] - ETA: 30s - loss: 0.0205 - accuracy: 0.997 - ETA: 30s - loss: 0.02
05 - accuracy: 0.997 - ETA: 29s - loss: 0.0204 - accuracy: 0.997 - ETA: 29s - loss: 0.0212 - accuracy: 0.997 - ETA: 29s - loss: 0.0212
- accuracy: 0.997 - ETA: 29s - loss: 0.0212 - accuracy: 0.997 - ETA: 28s - loss: 0.0211 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0209 - accuracy: 0.997 - ETA: 28s - loss: 0.0209 - accuracy: 0.997 - ETA: 28s - loss: 0.0209 - accuracy: 0.997 - ETA: 28s - loss: 0.0209 - accuracy: 0.997 - ETA: 28s - loss: 0.0209 - accuracy: 0.997 - ETA: 28s - loss: 0.0209 - accuracy: 0.997 - ETA: 28s - loss: 0.0209 - accuracy: 0.997 - ETA: 28s - loss: 0.0209 - accuracy: 0.997 - ETA: 28s - loss: 0.0209 - accuracy: 0.997 - ETA: 28s - loss: 0.0209 - accuracy: 0.997 - ETA: 28s - loss: 0.0209 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ETA: 28s - loss: 0.0210 - accuracy: 0.997 - ET
ccuracy: 0.997 - ETA: 27s - loss: 0.0209 - accuracy: 0.997 - ETA: 27s - loss: 0.0208 - accuracy: 0.997 - ETA: 27s - loss: 0.0208 - acc
uracy: 0.997 - ETA: 27s - loss: 0.0207 - accuracy: 0.997 - ETA: 27s - loss: 0.0206 - accuracy: 0.997 - ETA: 26s - loss: 0.0206 - accur
acy: 0.997 - ETA: 26s - loss: 0.0214 - accuracy: 0.997 - ETA: 26s - loss: 0.0213 - accuracy: 0.997 - ETA: 26s - loss: 0.0213 - accuracy
y: 0.997 - ETA: 26s - loss: 0.0220 - accuracy: 0.997 - ETA: 25s - loss: 0.0220 - accuracy: 0.997 - ETA: 25s - loss: 0.0219 - accuracy:
0.997 - ETA: 25s - loss: 0.0218 - accuracy: 0.997 - ETA: 25s - loss: 0.0218 - accuracy: 0.997 - ETA: 24s - loss: 0.0217 - accuracy: 0.
997 - ETA: 24s - loss: 0.0216 - accuracy: 0.997 - ETA: 24s - loss: 0.0216 - accuracy: 0.997 - ETA: 24s - loss: 0.0215 - accuracy: 0.99
7 - ETA: 23s - loss: 0.0214 - accuracy: 0.997 - ETA: 23s - loss: 0.0214 - accuracy: 0.997 - ETA: 23s - loss: 0.0213 - accuracy: 0.997
   - ETA: 23s - loss: 0.0212 - accuracy: 0.997 - ETA: 23s - loss: 0.0211 - accuracy: 0.997 - ETA: 22s - loss: 0.0211 - accuracy: 0.997 -
ETA: 22s - loss: 0.0210 - accuracy: 0.997 - ETA: 22s - loss: 0.0209 - accuracy: 0.997 - ETA: 22s - loss: 0.0208 - accuracy: 0.997 - ET
A: 21s - loss: 0.0208 - accuracy: 0.997 - ETA: 21s - loss: 0.0207 - accuracy: 0.997 - ETA: 21s - loss: 0.0212 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0212 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 - accuracy: 0.997 - ETA: 20s - loss: 0.0205 
- loss: 0.0211 - accuracy: 0.997 - ETA: 20s - loss: 0.0220 - accuracy: 0.997 - ETA: 20s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0218 - accuracy: 0.997 - ETA: 19s - loss: 0.0217 - accuracy: 0.997 - ETA: 19s - loss: 0.0218 - accuracy: 0.997 - ETA: 19s - loss: 0.0217 - accuracy: 0.997 - ETA: 19s - loss: 0.0218 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accur
loss: 0.0216 - accuracy: 0.997 - ETA: 18s - loss: 0.0215 - accuracy: 0.997 - ETA: 18s - loss: 0.0215 - accuracy: 0.997 - ETA: 18s - lo
ss: 0.0214 - accuracy: 0.997 - ETA: 18s - loss: 0.0213 - accuracy: 0.997 - ETA: 17s - loss: 0.0212 - accuracy: 0.997 - ETA: 17s - los
s: 0.0212 - accuracy: 0.997 - ETA: 17s - loss: 0.0211 - accuracy: 0.997 - ETA: 17s - loss: 0.0210 - accuracy: 0.997 - ETA: 17s - loss:
0.0210 - accuracy: 0.997 - ETA: 16s - loss: 0.0209 - accuracy: 0.997 - ETA: 16s - loss: 0.0208 - accuracy: 0.997 - ETA: 16s - loss: 0.
0208 - accuracy: 0.997 - ETA: 16s - loss: 0.0207 - accuracy: 0.997 - ETA: 15s - loss: 0.0206 - accuracy: 0.997 - ETA: 15s - loss: 0.02
06 - accuracy: 0.997 - ETA: 15s - loss: 0.0205 - accuracy: 0.997 - ETA: 15s - loss: 0.0204 - accuracy: 0.997 - ETA: 14s - loss: 0.0204
- accuracy: 0.997 - ETA: 14s - loss: 0.0203 - accuracy: 0.997 - ETA: 14s - loss: 0.0202 - accuracy: 0.997 - ETA: 14s - loss: 0.0202 - accuracy: 0.997 - ETA: 14s - loss: 0.0201 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 13s - loss: 0.0200 - accuracy: 0.997 - ETA: 0
ccuracy: 0.997 - ETA: 13s - loss: 0.0199 - accuracy: 0.997 - ETA: 13s - loss: 0.0198 - accuracy: 0.997 - ETA: 12s - loss: 0.0206 - acc
uracy: 0.997 - ETA: 12s - loss: 0.0205 - accuracy: 0.997 - ETA: 12s - loss: 0.0204 - accuracy: 0.997 - ETA: 12s - loss: 0.0204 - accur
acy: 0.997 - ETA: 11s - loss: 0.0203 - accuracy: 0.997 - ETA: 11s - loss: 0.0203 - accuracy: 0.997 - ETA: 11s - loss: 0.0202 - accurac
y: 0.997 - ETA: 11s - loss: 0.0201 - accuracy: 0.997 - ETA: 11s - loss: 0.0201 - accuracy: 0.997 - ETA: 10s - loss: 0.0200 - accuracy:
0.997 - ETA: 10s - loss: 0.0199 - accuracy: 0.997 - ETA: 10s - loss: 0.0199 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.
997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 9s - loss: 0.0197 - accuracy: 0.997 - ETA: 9s - loss: 0.0196 - accuracy: 0.99 -
ETA: 9s - loss: 0.0196 - accuracy: 0.99 - ETA: 9s - loss: 0.0195 - accuracy: 0.99 - ETA: 8s - loss: 0.0195 - accuracy: 0.99 - ETA: 8s
    - loss: 0.0194 - accuracy: 0.99 - ETA: 8s - loss: 0.0193 - accuracy: 0.99 - ETA: 8s - loss: 0.0200 - accuracy: 0.99 - ETA: 7s - loss:
0.0199 - accuracy: 0.99 - ETA: 7s - loss: 0.0199 - accuracy: 0.99 - ETA: 7s - loss: 0.0198 - accuracy: 0.99 - ETA: 7s - loss: 0.0198 -
accuracy: 0.99 - ETA: 7s - loss: 0.0197 - accuracy: 0.99 - ETA: 6s - loss: 0.0196 - accuracy: 0.99 - ETA: 6s - loss: 0.0196 - accuracy
y: 0.99 - ETA: 6s - loss: 0.0195 - accuracy: 0.99 - ETA: 6s - loss: 0.0195 - accuracy: 0.99 - ETA: 5s - loss: 0.0194 - accuracy: 0.99
   - ETA: 5s - loss: 0.0194 - accuracy: 0.99 - ETA: 5s - loss: 0.0193 - accuracy: 0.99 - ETA: 5s - loss: 0.0193 - accuracy: 0.99 - ETA:
  5s - loss: 0.0199 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0197 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - accuracy: 0
ss: 0.0197 - accuracy: 0.99 - ETA: 4s - loss: 0.0196 - accuracy: 0.99 - ETA: 3s - loss: 0.0196 - accuracy: 0.99 - ETA: 3s - loss: 0.01
95 - accuracy: 0.99 - ETA: 3s - loss: 0.0201 - accuracy: 0.99 - ETA: 3s - loss: 0.0201 - accuracy: 0.99 - ETA: 3s - loss: 0.0200 - acc
uracy: 0.99 - ETA: 2s - loss: 0.0200 - accuracy: 0.99 - ETA: 2s - loss: 0.0199 - accuracy: 0.99 - ETA: 2s - loss: 0.0205 - accuracy:
  0.99 - ETA: 2s - loss: 0.0204 - accuracy: 0.99 - ETA: 1s - loss: 0.0204 - accuracy: 0.99 - ETA: 1s - loss: 0.0203 - accuracy: 0.99 -
ETA: 1s - loss: 0.0203 - accuracy: 0.99 - ETA: 1s - loss: 0.0202 - accuracy: 0.99 - ETA: 1s - loss: 0.0202 - accuracy: 0.99 - ETA: 0s - loss: 0.0202 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0.0200 - accuracy: 0.99 - E
29 - val_accuracy: 0.9968
Epoch 32/50
186/322 [========>.......] - ETA: 0s - loss: 0.0053 - accuracy: 1.00 - ETA: 51s - loss: 0.0052 - accuracy: 1.000 - ETA:
  55s - loss: 0.0052 - accuracy: 1.000 - ETA: 53s - loss: 0.0050 - accuracy: 1.000 - ETA: 54s - loss: 0.0049 - accuracy: 1.000 - ETA: 5
6s - loss: 0.0048 - accuracy: 1.000 - ETA: 56s - loss: 0.0047 - accuracy: 1.000 - ETA: 59s - loss: 0.0046 - accuracy: 1.000 - ETA: 1:0
```

2 - loss: 0.0045 - accuracy: 1.00 - ETA: 1:01 - loss: 0.0044 - accuracy: 1.00 - ETA: 1:00 - loss: 0.0043 - accuracy: 1.00 - ETA: 59s - loss: 0.0042 - accuracy: 1.0000 - ETA: 59s - loss: 0.0041 - accuracy: 1.0000 - ETA: 59s - loss: 0.0040 - accuracy: 1.000 - ETA: 1:02 - loss: 0.0039 - accuracy: 1.00 - ETA: 1:01 - loss: 0.0039 - accuracy: 1.00 - ETA: 1:00 - loss: 0.0038 - accuracy: 1.00 - ETA: 1:00 - loss: 0.0037 - accuracy: 1.00 - ETA: 59s - loss: 0.0036 - accuracy: 1.000 - ETA: 59s - loss: 0.0130 - accuracy: 0.998 - ETA: 1:00 - loss: 0.0126 - accuracy: 0.998 - ETA: 59s - loss: 0.0122 - accuracy: 0.998 - ETA: 59s - loss: 0.0118 - accuracy: 0.998 - ETA: 59s - loss: 0.0144 - accuracy: 0.998 - ETA: 59s - loss: 0.0111 - accuracy: 0.998 - ETA: 57s - loss: 0.0108 - accuracy: 0.998 - ETA: 57s - loss: 0.0106 - accuracy: 0.998 - ETA: 57s - loss: 0.0106 - accuracy: 0.998 - ETA: 57s - loss: 0.0108 - accuracy: 0.998 - ETA: 57s - loss: 0.0165 - accuracy: 0.998 - ETA: 57s - loss: 0.0161 - accuracy: 0.998 - ETA: 56s - loss: 0.01

```
57 - accuracy: 0.998 - ETA: 56s - loss: 0.0154 - accuracy: 0.998 - ETA: 57s - loss: 0.0204 - accuracy: 0.997 - ETA: 57s - loss: 0.0200
 - accuracy: 0.997 - ETA: 56s - loss: 0.0196 - accuracy: 0.997 - ETA: 56s - loss: 0.0192 - accuracy: 0.997 - ETA: 56s - loss: 0.0188 -
accuracy: 0.997 - ETA: 55s - loss: 0.0185 - accuracy: 0.997 - ETA: 56s - loss: 0.0182 - accuracy: 0.997 - ETA: 56s - loss: 0.0178 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - loss: 0.0170 - accuracy: 0.997 - ETA: 56s - accuracy: 0.997 - ETA: 56s - accuracy
uracy: 0.997 - ETA: 54s - loss: 0.0167 - accuracy: 0.998 - ETA: 54s - loss: 0.0164 - accuracy: 0.998 - ETA: 55s - loss: 0.0162 - accur
acy: 0.998 - ETA: 55s - loss: 0.0160 - accuracy: 0.998 - ETA: 54s - loss: 0.0157 - accuracy: 0.998 - ETA: 54s - loss: 0.0191 - accurac
y: 0.997 - ETA: 54s - loss: 0.0188 - accuracy: 0.997 - ETA: 53s - loss: 0.0186 - accuracy: 0.997 - ETA: 53s - loss: 0.0183 - accuracy:
0.997 - ETA: 53s - loss: 0.0181 - accuracy: 0.997 - ETA: 53s - loss: 0.0179 - accuracy: 0.997 - ETA: 53s - loss: 0.0177 - accuracy: 0.
997 - ETA: 52s - loss: 0.0174 - accuracy: 0.997 - ETA: 52s - loss: 0.0172 - accuracy: 0.997 - ETA: 52s - loss: 0.0170 - accuracy: 0.99
7 - ETA: 51s - loss: 0.0168 - accuracy: 0.998 - ETA: 52s - loss: 0.0166 - accuracy: 0.998 - ETA: 52s - loss: 0.0196 - accuracy: 0.997
  - ETA: 51s - loss: 0.0194 - accuracy: 0.997 - ETA: 51s - loss: 0.0219 - accuracy: 0.997 - ETA: 51s - loss: 0.0216 - accuracy: 0.997 -
ETA: 50s - loss: 0.0214 - accuracy: 0.997 - ETA: 51s - loss: 0.0212 - accuracy: 0.997 - ETA: 50s - loss: 0.0210 - accuracy: 0.997 - ETA
A: 50s - loss: 0.0208 - accuracy: 0.997 - ETA: 50s - loss: 0.0206 - accuracy: 0.997 - ETA: 49s - loss: 0.0227 - accuracy: 0.997 - ETA:
49s - loss: 0.0224 - accuracy: 0.997 - ETA: 49s - loss: 0.0222 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.0220 - accuracy: 0.997 - ETA: 49s - loss: 0.997 - ETA
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7 - ETA: 15s - loss: 0.0198 - accuracy: 0.997 - ETA: 15s - loss: 0.0197 - accuracy: 0.997 - ETA: 15s - loss: 0.0197 - accuracy: 0.997
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133 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - accuracy: 0.997 - ETA: 135 - 1055: 0.0200 - a
135 - 1055: 0.0198 - accuracy: 0.997 - ETA: 125 - 1055: 0.0197 - accuracy: 0.997 - ETA: 125 - 1055: 0.0198 - accuracy: 0.997 - ETA: 125 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - accuracy: 0.997 - ETA: 115 - 1055: 0.0196 - a
loss: 0.0201 - accuracy: 0.997 - ETA: 11s - loss: 0.0201 - accuracy: 0.997 - ETA: 11s - loss: 0.0200 - accuracy: 0.997 - ETA: 10s - lo
 ss: 0.0200 - accuracy: 0.997 - ETA: 10s - loss: 0.0199 - accuracy: 0.997 - ETA: 10s - loss: 0.0205 - accuracy: 0.997 - ETA: 10s - los
 s: 0.0204 - accuracy: 0.997 - ETA: 9s - loss: 0.0204 - accuracy: 0.997 - ETA: 9s - loss: 0.0203 - accuracy: 0.99 - ETA: 9s - loss: 0.0
203 - accuracy: 0.99 - ETA: 9s - loss: 0.0202 - accuracy: 0.99 - ETA: 9s - loss: 0.0202 - accuracy: 0.99 - ETA: 8s - loss: 0.0201 - ac
 curacy: 0.99 - ETA: 8s - loss: 0.0201 - accuracy: 0.99 - ETA: 8s - loss: 0.0200 - accuracy: 0.99 - ETA: 8s - loss: 0.0200 - accuracy:
  0.99 - ETA: 8s - loss: 0.0199 - accuracy: 0.99 - ETA: 7s - loss: 0.0198 - accuracy: 0.99 - ETA: 7s - loss: 0.0198 - accuracy: 0.99 -
  ETA: 7s - loss: 0.0197 - accuracy: 0.99 - ETA: 7s - loss: 0.0197 - accuracy: 0.99 - ETA: 6s
 - loss: 0.0196 - accuracy: 0.99 - ETA: 6s - loss: 0.0195 - accuracy: 0.99 - ETA: 6s - loss: 0.0195 - accuracy: 0.99 - ETA: 6s - loss:
  0.0194 - accuracy: 0.99 - ETA: 6s - loss: 0.0194 - accuracy: 0.99 - ETA: 5s - loss: 0.0193 - accuracy: 0.99 - ETA: 5s - loss: 0.0192
   - accuracy: 0.99 - ETA: 5s - loss: 0.0192 - accuracy: 0.99 - ETA: 5s - loss: 0.0191 - accuracy: 0.99 - ETA: 4s - loss: 0.0191 - accur
acy: 0.99 - ETA: 4s - loss: 0.0197 - accuracy: 0.99 - ETA: 4s - loss: 0.0196 - accuracy: 0.99 - ETA: 4s - loss: 0.0196 - accuracy: 0.99
 9 - ETA: 4s - loss: 0.0195 - accuracy: 0.99 - ETA: 3s - loss: 0.0195 - accuracy: 0.99 - ETA: 3s - loss: 0.0194 - accuracy: 0.99 - ETA:
3s - loss: 0.0194 - accuracy: 0.99 - ETA: 3s - loss: 0.0193 - accuracy: 0.99 - ETA: 3s - loss: 0.0193 - accuracy: 0.99 - ETA: 2s - loss: 0.0192 - accuracy: 0.99 - ETA: 2s - loss: 0.0192
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99 - ETA: 0s - loss: 0.0199 - accuracy: 0.99 - ETA: 0s - loss: 0.0199 - accuracy: 0.99 - ETA: 0s - loss: 0.0199 - accuracy: 0.99 - ETA: 0s - loss: 0.0198 - accuracy: 0.99 - ETA: 0s - loss: 0.0198 - accuracy: 0.99 - ETA: 0s - loss: 0.0198 - accuracy: 0.99 - ETA: 0s - loss: 0.0198 - accuracy: 0.99 - TOS: 0.0198 - accuracy: 0.99 - ETA: 0s - loss: 0.0198 - accuracy: 0.99 - TOS: 0.0198 - accuracy: 0.99 - ETA: 0s - loss: 0.0198 - accuracy: 0.99 - TOS: 0.0198 - accuracy: 0.99 - TOS: 0.0198 - accuracy: 0.99 - ETA: 0s - loss: 0.0198 - accuracy: 0.99 - TOS: 0.01
 al_loss: 0.0230 - val_accuracy: 0.9968
Epoch 33/50
 186/322 [========>......] - ETA: 0s - loss: 0.0047 - accuracy: 1.00 - ETA: 24s - loss: 0.0047 - accuracy: 1.000 - ETA:
   33s - loss: 0.0048 - accuracy: 1.000 - ETA: 38s - loss: 0.0048 - accuracy: 1.000 - ETA: 49s - loss: 0.0049 - accuracy: 1.000 - ETA: 5
3s - loss: 0.0048 - accuracy: 1.000 - ETA: 53s - loss: 0.0048 - accuracy: 1.000 - ETA: 52s - loss: 0.0049 - accuracy: 1.000 - ETA: 52s
 - loss: 0.0048 - accuracy: 1.000 - ETA: 52s - loss: 0.0048 - accuracy: 1.000 - ETA: 51s - loss: 0.0047 - accuracy: 1.000 - ETA: 56s -
   loss: 0.0047 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 1.000 - ETA: 56s - loss: 0.0046 - accuracy: 0.0046 - accura
 oss: 0.0045 - accuracy: 1.000 - ETA: 56s - loss: 0.0044 - accuracy: 1.000 - ETA: 55s - loss: 0.0044 - accuracy: 1.000 - ETA: 55s - los
s: 0.0043 - accuracy: 1.000 - ETA: 58s - loss: 0.0042 - accuracy: 1.000 - ETA: 57s - loss: 0.0147 - accuracy: 0.998 - ETA: 57s - loss:
0.0142 - accuracy: 0.998 - ETA: 56s - loss: 0.0137 - accuracy: 0.998 - ETA: 56s - loss: 0.0133 - accuracy: 0.998 - ETA: 55s - loss: 0.
 0129 - accuracy: 0.998 - ETA: 55s - loss: 0.0125 - accuracy: 0.998 - ETA: 57s - loss: 0.0122 - accuracy: 0.998 - ETA: 57s - loss: 0.01
19 - accuracy: 0.998 - ETA: 56s - loss: 0.0116 - accuracy: 0.998 - ETA: 57s - loss: 0.0113 - accuracy: 0.998 - ETA: 56s - loss: 0.0110
 - accuracy: 0.999 - ETA: 56s - loss: 0.0108 - accuracy: 0.999 - ETA: 57s - loss: 0.0106 - accuracy: 0.999 - ETA: 57s - loss: 0.0103 -
    accuracy: 0.999 - ETA: 56s - loss: 0.0163 - accuracy: 0.998 - ETA: 56s - loss: 0.0159 - accuracy: 0.998 - ETA: 56s - loss: 0.0210 - a
ccuracy: 0.997 - ETA: 55s - loss: 0.0206 - accuracy: 0.997 - ETA: 57s - loss: 0.0202 - accuracy: 0.997 - ETA: 58s - loss: 0.0198 - acc
uracy: 0.997 - ETA: 58s - loss: 0.0194 - accuracy: 0.997 - ETA: 58s - loss: 0.0191 - accuracy: 0.997 - ETA: 58s - loss: 0.0188 - accuracy: 0.997 - ETA: 58s - loss: 0.0189 - accuracy: 0.997 - ETA: 58s - loss: 0.0189 - accuracy: 0.997 - ETA: 58s - loss: 0.0189 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:06 - loss: 0.0179 - accuracy: 0.997 - ETA: 1:07 - 
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9. 90 - ETA: 1:05 - loss: 0.0196 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0191 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0189 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0189 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0189 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0186 - accuracy: 0.99 - ETA: 0.90 - accuracy: 0.99 - ETA: 0.90 - accuracy: 0.99 - 
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      - ETA: 17s - loss: 0.0203 - accuracy: 0.997 - ETA: 17s - loss: 0.0203 - accuracy: 0.997 - ETA: 17s - loss: 0.0202 - accuracy: 0.997 -
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0 - accuracy: 0.99 - ETA: 2s - loss: 0.0190 - accuracy: 0.99 - ETA: 1s - loss: 0.0189 - accuracy: 0.99 - ETA: 1s - loss: 0.0195 - accuracy: 0.99 - ETA: 1s - loss: 0.0194 - accuracy: 0.99 - ETA: 1s - loss: 0.0200 - accuracy: 0.99 - ETA: 1s - loss: 0.0200 - accuracy: 0.99 - ETA: 1s - loss: 0.0200 - accuracy: 0.99 - ETA: 1s - loss: 0.0200 - accuracy: 0.99 - ETA: 1s - loss: 0.0200 - accuracy: 0.99 - ETA: 1s - loss: 0.0200 - accuracy: 0.99 - ETA: 1s - loss: 0.0200 - accuracy: 0.90 - ETA: 0.9000 - accuracy: 0.9000 - accuracy:

15s - loss: 0.0198 - accuracy: 0.997 - ETA: 15s - loss: 0.0197 - accuracy: 0.997 - ETA: 15s - loss: 0.0196 - accuracy: 0.997 - ETA: 14s - loss: 0.0196 - accuracy: 0.997 - ETA: 14s - loss: 0.0195 - accuracy: 0.997 - ETA: 14s - loss: 0.0194 - accuracy: 0.997 - ETA: 13s - loss: 0.0193 - accuracy: 0.997 - ETA: 13s - loss: 0.0193 - accuracy: 0.997 - ETA: 13s loss: 0.0192 - accuracy: 0.997 - ETA: 13s - loss: 0.0191 - accuracy: 0.997 - ETA: 12s - loss: 0.997 - ETA: 12s - loss: 0.997 - ETA: 12s - loss: 0.997 - ETA: 0.997 - ETA: 12s - loss: 0.99 ss: 0.0190 - accuracy: 0.997 - ETA: 12s - loss: 0.0190 - accuracy: 0.997 - ETA: 12s - loss: 0.0189 - accuracy: 0.997 - ETA: 11s - los s: 0.0188 - accuracy: 0.997 - ETA: 11s - loss: 0.0196 - accuracy: 0.997 - ETA: 11s - loss: 0.0195 - accuracy: 0.997 - ETA: 11s - loss: 0.0195 - accuracy: 0.997 - ETA: 10s - loss: 0.0194 - accuracy: 0.997 - ETA: 0.997 0193 - accuracy: 0.997 - ETA: 10s - loss: 0.0192 - accuracy: 0.997 - ETA: 9s - loss: 0.0192 - accuracy: 0.997 - ETA: 9s - loss: 0.0191 - accuracy: 0.99 - ETA: 9s - loss: 0.0191 - accuracy: 0.99 - ETA: 9s - loss: 0.0190 - accuracy: 0.99 - ETA: 8s - loss: 0.0190 - accura cy: 0.99 - ETA: 8s - loss: 0.0189 - accuracy: 0.99 - ETA: 8s - loss: 0.0195 - accuracy: 0.99 - ETA: 8s - loss: 0.0195 - accuracy: 0.99 - ETA: 7s - loss: 0.0194 - accuracy: 0.99 - ETA: 7s - loss: 0.0194 - accuracy: 0.99 - ETA: 7s - loss: 0.0199 - accuracy: 0.99 - ETA: 7 s - loss: 0.0199 - accuracy: 0.99 - ETA: 6s - loss: 0.0198 - accuracy: 0.99 - ETA: 6s - loss: 0.0198 - accuracy: 0.99 - ETA: 6s - los s: 0.0197 - accuracy: 0.99 - ETA: 6s - loss: 0.0197 - accuracy: 0.99 - ETA: 5s - loss: 0.0196 - accuracy: 0.99 - ETA: 5s - loss: 0.019 6 - accuracy: 0.99 - ETA: 5s - loss: 0.0195 - accuracy: 0.99 - ETA: 5s - loss: 0.0195 - accuracy: 0.99 - ETA: 5s - loss: 0.0194 - accu racy: 0.99 - ETA: 4s - loss: 0.0194 - accuracy: 0.99 - ETA: 4s - loss: 0.0193 - accuracy: 0.99 - a 99 - ETA: 4s - loss: 0.0192 - accuracy: 0.99 - ETA: 3s - loss: 0.0192 - accuracy: 0.99 - ETA: 3s - loss: 0.0191 - accuracy: 0.99 - ET A: 3s - loss: 0.0191 - accuracy: 0.99 - ETA: 3s - loss: 0.0190 - accuracy: 0.99 - ETA: 2s - loss: 0.0190 - accuracy: 0.99 - ETA: 2s loss: 0.0189 - accuracy: 0.99 - ETA: 2s - loss: 0.0189 - accuracy: 0.99 - ETA: 2s - loss: 0.0188 - accuracy: 0.99 - ETA: 1s - loss: 0.0188 - accuracy: 0.99 - ETA: 1s - loss: 0.0187 - accuracy: 0.99 - ETA: 1s - loss: 0.0193 - accuracy: 0.99 - ETA: 1s - loss: 0.0193 - accuracy: 0.99 - ETA: 0s - loss: 0.0192 - accuracy: 0.99 - ETA: 0s - loss: 0.0192 - accuracy: 0.99 - ETA: 0s - loss: 0.0191 - accuracy: 0.99 - ETA: 0.0191 cy: 0.9975 - val_loss: 0.0230 - val_accuracy: 0.9968 Epoch 34/50 126/322 [=======>...............] - ETA: 0s - loss: 0.0037 - accuracy: 1.00 - ETA: 29s - loss: 0.0036 - accuracy: 1.000 - ETA: 39s - loss: 0.0036 - accuracy: 1.000 - ETA: 47s - loss: 0.0035 - accuracy: 1.000 - ETA: 49s - loss: 0.0035 - accuracy: 1.000 - ETA: 5 8s - loss: 0.0034 - accuracy: 1.000 - ETA: 1:02 - loss: 0.0034 - accuracy: 1.00 - ETA: 1:03 - loss: 0.0033 - accuracy: 1.00 - ETA: 1:0 2 - loss: 0.0033 - accuracy: 1.00 - ETA: 1:03 - loss: 0.0033 - accuracy: 1.00 - ETA: 1:03 - loss: 0.0033 - accuracy: 1.00 - ETA: 1:06 - loss: 0.0032 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0032 - accuracy: 1.00 - ETA: 1:07 - loss: 0.0032 - accuracy: 1.00 - ETA: 1:06 loss: 0.0032 - accuracy: 1.00 - ETA: 1:05 - loss: 0.0031 - accuracy: 1.00 - ETA: 1:05 - loss: 0.0031 - accuracy: 1.00 - ETA: 1:08 - lo ss: 0.0031 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0030 - accuracy: 1.00 - ETA: 1:07 - loss: 0.0030 - accuracy: 1.00 - ETA: 1:06 - loss: 0.0030 - accuracy: 1.00 - ETA: 1:06 - loss: 0.0030 - accuracy: 1.00 - ETA: 1:06 - loss: 0.0121 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0117 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0121 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0121 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0121 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0121 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0121 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0121 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0121 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0121 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0121 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0121 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0121 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0121 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0121 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0121 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0121 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0121 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0121 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0121 - accuracy: 0.99 - ETA: 0.0121 - accuracy: 0.99 -0.0194 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0263 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0255 - accuracy: 0.99 - ETA: 1:06 - loss: 0. 0248 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0242 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0237 - accuracy: 0.99 - ETA: 1:04 - loss: 0.02 31 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0337 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0329 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0322 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0364 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0357 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0352 accuracy: 0.99 - ETA: 1:08 - loss: 0.0346 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0341 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0336 - a ccuracy: 0.99 - ETA: 1:09 - loss: 0.0332 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0327 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0323 - acc uracy: 0.99 - ETA: 1:06 - loss: 0.0318 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0313 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0309 - accur acy: 0.99 - ETA: 1:04 - loss: 0.0304 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0299 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0294 - accurac y: 0.99 - ETA: 1:02 - loss: 0.0290 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0285 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0281 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0311 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0306 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0301 - accuracy: 0. 99 - ETA: 1:00 - loss: 0.0297 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0292 - accuracy: 0.99 - ETA: 59s - loss: 0.0288 - accuracy: 0.996 2 - ETA: 1:00 - loss: 0.0284 - accuracy: 0.99 - ETA: 59s - loss: 0.0280 - accuracy: 0.9963 - ETA: 1:00 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0273 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0269 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0265 - accuracy: 0.99 -ETA: 1:00 - loss: 0.0262 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0258 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0255 - accuracy: 0.99 - E TA: 1:02 - loss: 0.0251 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0248 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0245 - accuracy: 0.99 - ET A: 1:02 - loss: 0.0242 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0239 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0236 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0233 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0230 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0228 - accuracy: 0.99 - ETA: 1: 00 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0222 - accuracy: 0.99 - ETA: 59s - loss: 0.0220 - accuracy: 0.997 - ETA: 59s - loss: 0.0217 - accuracy: 0.997 - ETA: 58s - loss: 0.0217 - accuracy: 0.997 - ETA: 57s loss: 0.0210 - accuracy: 0.997 - ETA: 56s - loss: 0.0208 - accuracy: 0.997 - ETA: 56s - loss: 0.0206 - accuracy: 0.997 - ETA: 55s - l oss: 0.0204 - accuracy: 0.997 - ETA: 55s - loss: 0.0202 - accuracy: 0.997 - ETA: 55s - loss: 0.0225 - accuracy: 0.997 - ETA: 54s - los s: 0.0222 - accuracy: 0.997 - ETA: 54s - loss: 0.0220 - accuracy: 0.997 - ETA: 53s - loss: 0.0218 - accuracy: 0.997 - ETA: 53s - loss: 0.0216 - accuracy: 0.997 - ETA: 53s - loss: 0.0214 - accuracy: 0.997 - ETA: 53s - loss: 0.0212 - accuracy: 0.997 - ETA: 53s - loss: 0. 0210 - accuracy: 0.997 - ETA: 52s - loss: 0.0208 - accuracy: 0.997 - ETA: 52s - loss: 0.0206 - accuracy: 0.997 - ETA: 52s - loss: 0.02 05 - accuracy: 0.997 - ETA: 52s - loss: 0.0225 - accuracy: 0.997 - ETA: 52s - loss: 0.0223 - accuracy: 0.997 - ETA: 52s - loss: 0.0221 - accuracy: 0.997 - ETA: 52s - loss: 0.0219 - accuracy: 0.997 - ETA: 52s - loss: 0.0217 - accuracy: 0.997 - ETA: 52s - loss: 0.0216 - accuracy: 0.997 - ETA: 53s - loss: 0.0233 - accuracy: 0.997 - ETA: 55s - loss: 0.0232 - accuracy: 0.997 - ETA: 57s - loss: 0.0230 - a ccuracy: 0.997 - ETA: 57s - loss: 0.0228 - accuracy: 0.997 - ETA: 57s - loss: 0.0227 - accuracy: 0.997 - ETA: 57s - loss: 0.0225 - acc uracy: 0.997 - ETA: 57s - loss: 0.0240 - accuracy: 0.996 - ETA: 57s - loss: 0.0238 - accuracy: 0.996 - ETA: 57s - loss: 0.0236 - accur acy: 0.996 - ETA: 57s - loss: 0.0235 - accuracy: 0.997 - ETA: 57s - loss: 0.0233 - accuracy: 0.997 - ETA: 56s - loss: 0.0248 - accurac y: 0.996 - ETA: 56s - loss: 0.0246 - accuracy: 0.996 - ETA: 58s - loss: 0.0245 - accuracy: 0.996 - ETA: 59s - loss: 0.0244 - accuracy: 0.996 - ETA: 1:01 - loss: 0.0242 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0241 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0239 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0238 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0237 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0236 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0234 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0233 - accuracy: 0.9970WARNING:tensorflow:Method (on_train_bat ch end) is slow compared to the batch update (0.324080). Check your callbacks. 127/322 [========>).....] - ETA: 1:03 - loss: 0.0232 - accuracy: 0.9970WARNING:tensorflow:Method (on_train_batch_end) i s slow compared to the batch update (0.301560). Check your callbacks. 160/322 [=======>.....] - ETA: 1:03 - loss: 0.0230 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0229 - accuracy: 0.99 - ETA: A: 1:03 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0226 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0223 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0222 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0221 - accuracy: 0.99 - ETA: 1: 03 - loss: 0.0219 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0214 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0215 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0215 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0216 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0218 - ac loss: 0.0211 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0209 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0206 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0206 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0219 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0208 - accurac s: 0.0218 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0216 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0215 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0226 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0224 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0223 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0224 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0226 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0228 - accuracy: 0.9973WARNING:tensorflow:Method (on_train_batch_end) is slow compared to the batch update (0.211054). Check your callback A: 1:02 - loss: 0.0226 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0224 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0223 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0222 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0221 - accuracy: 0.99 - ETA: 1: 00 - loss: 0.0220 - accuracy: 0.99 - ETA: 59s - loss: 0.0219 - accuracy: 0.9972 - ETA: 59s - loss: 0.0218 - accuracy: 0.997 - ETA: 58s - loss: 0.0217 - accuracy: 0.997 - ETA: 58s - loss: 0.0216 - accuracy: 0.997 - ETA: 57s - loss: 0.0215 - accuracy: 0.997 - ETA: 57s loss: 0.0214 - accuracy: 0.997 - ETA: 56s - loss: 0.0213 - accuracy: 0.997 - ETA: 56s - loss: 0.0212 - accuracy: 0.997 - ETA: 56s - l

oss: 0.0211 - accuracy: 0.997 - ETA: 55s - loss: 0.0210 - accuracy: 0.997 - ETA: 55s - loss: 0.0209 - accuracy: 0.997 - ETA: 54s - loss: 0.0208 - accuracy: 0.997 - ETA: 54s - loss: 0.0207 - accuracy: 0.997 - ETA: 54s - loss: 0.0206 - accuracy: 0.997 - ETA: 53s - loss: 0.0205 - accuracy: 0.997 - ETA: 53s - loss: 0.0204 - accuracy: 0.997 - ETA: 53s - loss: 0.0202 - accuracy: 0.997 - ETA: 52s - loss: 0.0201 - accuracy: 0.997 - ETA: 52s - loss: 0.0201 - accuracy: 0.997 - ETA: 51s - loss: 0.0201 - accuracy: 0.997 - ETA: 51s - loss: 0.0201

00 - accuracy: 0.997 - ETA: 51s - loss: 0.0199 - accuracy: 0.997 - ETA: 50s - loss: 0.0198 - accuracy: 0.997 - ETA: 50s - loss: 0.0208 - accuracy: 0.997 - ETA: 50s - loss: 0.0207 - accuracy: 0.997 - ETA: 49s - loss: 0.0206 - accuracy: 0.997 - ETA: 49s - loss: 0.0205 accuracy: 0.997 - ETA: 49s - loss: 0.0204 - accuracy: 0.997 - ETA: 48s - loss: 0.0204 - accuracy: 0.997 - ETA: 48s - loss: 0.0203 - accuracy: 0.997 - ETA: 47s - loss: 0.0202 - accuracy: 0.997 - ETA: 47s - loss: 0.0201 - accuracy: 0.997 - ETA: 47s - loss: 0.0200 - accuracy: 0.997 - ETA: 47s - loss: 0.0201 - accuracy: 0.997 - ETA: uracy: 0.997 - ETA: 47s - loss: 0.0199 - accuracy: 0.997 - ETA: 46s - loss: 0.0198 - accuracy: 0.997 - accur acy: 0.997 - ETA: 45s - loss: 0.0197 - accuracy: 0.997 - ETA: 45s - loss: 0.0196 - accuracy: 0.997 - ETA: 44s - loss: 0.0195 - accuracy y: 0.997 - ETA: 44s - loss: 0.0194 - accuracy: 0.997 - ETA: 44s - loss: 0.0194 - accuracy: 0.997 - ETA: 43s - loss: 0.0193 - accuracy: 0.997 - ETA: 43s - loss: 0.0192 - accuracy: 0.997 - ETA: 42s - loss: 0.0191 - accuracy: 0.997 - ETA: 42s - loss: 0.0200 - accuracy: 0. 997 - ETA: 41s - loss: 0.0200 - accuracy: 0.997 - ETA: 41s - loss: 0.0199 - accuracy: 0.997 - ETA: 41s - loss: 0.0198 - accuracy: 0.99 7 - ETA: 40s - loss: 0.0197 - accuracy: 0.997 - ETA: 40s - loss: 0.0197 - accuracy: 0.997 - ETA: 39s - loss: 0.0196 - accuracy: 0.997 - ETA: 39s - loss: 0.0195 - accuracy: 0.997 - ETA: 38s - loss: 0.0203 - accuracy: 0.997 - ETA: 38s - loss: 0.0202 - accuracy: 0.997 -ETA: 38s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 37s - loss: 0.0200 - accuracy: 0.997 - ETA A: 36s - loss: 0.0199 - accuracy: 0.997 - ETA: 36s - loss: 0.0199 - accuracy: 0.997 - ETA: 36s - loss: 0.0198 - accuracy: 0.997 - ETA: 35s - loss: 0.0197 - accuracy: 0.997 - ETA: 35s - loss: 0.0197 - accuracy: 0.997 - ETA: 34s - loss: 0.0196 - accuracy: 0.997 - ETA: 34 s - loss: 0.0195 - accuracy: 0.997 - ETA: 33s - loss: 0.0195 - accuracy: 0.997 - ETA: 33s - loss: 0.0194 - accuracy: 0.997 - ETA: 33s - loss: 0.0193 - accuracy: 0.997 - ETA: 32s - loss: 0.0193 - accuracy: 0.997 - ETA: 32s - loss: 0.0200 - accuracy: 0.997 - ETA: 32s loss: 0.0200 - accuracy: 0.997 - ETA: 32s - loss: 0.0199 - accuracy: 0.997 - ETA: 31s - loss: 0.0198 - accuracy: 0.997 - ETA: 31s - lo ss: 0.0198 - accuracy: 0.997 - ETA: 31s - loss: 0.0197 - accuracy: 0.997 - ETA: 30s - loss: 0.0197 - accuracy: 0.997 - ETA: 30s - loss s: 0.0196 - accuracy: 0.997 - ETA: 29s - loss: 0.0195 - accuracy: 0.997 - ETA: 29s - loss: 0.0195 - accuracy: 0.997 - ETA: 29s - loss: 0.0194 - accuracy: 0.997 - ETA: 28s - loss: 0.0193 - accuracy: 0.997 - ETA: 28s - loss: 0.0200 - accuracy: 0.997 - ETA: 27s - loss: 0. 0199 - accuracy: 0.997 - ETA: 27s - loss: 0.0199 - accuracy: 0.997 - ETA: 27s - loss: 0.0198 - accuracy: 0.997 - ETA: 26s - loss: 0.01 98 - accuracy: 0.997 - ETA: 26s - loss: 0.0197 - accuracy: 0.997 - ETA: 25s - loss: 0.0196 - accuracy: 0.997 - ETA: 25s - loss: 0.0196 - accuracy: 0.997 - ETA: 25s - loss: 0.0203 - accuracy: 0.997 - ETA: 24s - loss: 0.0209 - accuracy: 0.997 - ETA: 24s - loss: 0.0208 accuracy: 0.997 - ETA: 23s - loss: 0.0208 - accuracy: 0.997 - ETA: 23s - loss: 0.0207 - accuracy: 0.997 - ETA: 22s - loss: 0.0213 - accuracy: 0.997 - ETA: 22s - loss: 0.0212 - accuracy: 0.997 - ETA: 21s - loss: 0.0211 - acc uracy: 0.997 - ETA: 21s - loss: 0.0210 - accuracy: 0.997 - ETA: 21s - loss: 0.0210 - accuracy: 0.997 - ETA: 20s - loss: 0.0210 - accuracy: 0.997 - ETA: 20s - loss: 0.0210 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 19 y: 0.997 - ETA: 19s - loss: 0.0208 - accuracy: 0.997 - ETA: 18s - loss: 0.0214 - accuracy: 0.997 - ETA: 18s - loss: 0.0213 - accuracy: 0.997 - ETA: 18s - loss: 0.0213 - accuracy: 0.997 - ETA: 17s - loss: 0.0212 - accuracy: 0.997 - ETA: 17s - loss: 0.0212 - accuracy: 0. 997 - ETA: 16s - loss: 0.0211 - accuracy: 0.997 - ETA: 16s - loss: 0.0211 - accuracy: 0.997 - ETA: 15s - loss: 0.0210 - accuracy: 0.99 7 - ETA: 15s - loss: 0.0210 - accuracy: 0.997 - ETA: 15s - loss: 0.0209 - accuracy: 0.997 - ETA: 14s - loss: 0.0209 - accuracy: 0.997 - ETA: 14s - loss: 0.0208 - accuracy: 0.997 - ETA: 14s - loss: 0.0207 - accuracy: 0.997 - ETA: 13s - loss: 0.0207 - accuracy: 0.997 -ETA: 13s - loss: 0.0206 - accuracy: 0.997 - ETA: 13s - loss: 0.0206 - accuracy: 0.997 - ETA: 12s - loss: 0.0205 - accuracy: 0.997 - ETA A: 12s - loss: 0.0205 - accuracy: 0.997 - ETA: 11s - loss: 0.0204 - accuracy: 0.997 - ETA: 11s - loss: 0.0203 - accuracy: 0.997 - ETA: 11s - loss: 0.0203 - accuracy: 0.9974WARNING:tensorflow:Method (on_train_batch_end) is slow compared to the batch update (0.175544). C heck your callbacks.

322/322 [=========================] - ETA: 10s - loss: 0.0202 - accuracy: 0.997 - ETA: 10s - loss: 0.0202 - accuracy: 0.997 - ETA: 9s - loss: 0.0201 - accuracy: 0.997 - ETA: 8s - loss: 0.0201 - accuracy: 0.997 - ETA: 8s - loss: 0.0201 - accuracy: 0.99 - ETA: 8s - loss: 0.0206 - accuracy: 0.99 - ETA: 7s - loss: 0.0205 - accuracy: 0.99 - ETA: 7s - loss: 0.0206 - accuracy: 0.99 - ETA: 7s - loss: 0.0205 - accuracy: 0.99 - ETA: 6s - loss: 0.0206 - accuracy: 0.99 - ETA: 6s - loss: 0.0203 - accuracy: 0.99 - ETA: 6s - loss: 0.0203 - accuracy: 0.99 - ETA: 6s - loss: 0.0203 - accuracy: 0.99 - ETA: 6s - loss: 0.0204 - accuracy: 0.99 - ETA: 5s - loss: 0.0206 - accuracy: 0.99 - ETA: 5s - loss: 0.0206 - accuracy: 0.99 - ETA: 5s - loss: 0.0206 - accuracy: 0.99 - ETA: 5s - loss: 0.0206 - accuracy: 0.99 - ETA: 3s - loss: 0.0206 - accuracy: 0.99 - ETA: 2s - loss: 0.0206 - accuracy: 0.99 - ETA: 3s - loss: 0.0206 - accuracy: 0.99 - ETA: 2s - loss: 0.0206 - accuracy: 0.99 - ETA: 1s - loss: 0.0206 - accuracy: 0.99 - ETA: 1s - loss: 0.0206 - accuracy: 0.99 - ETA: 1s - loss: 0.0206 - accuracy: 0.99 - ETA: 1s - loss: 0.0206 - accuracy: 0.99 - ETA: 1s - loss: 0.0206 - accuracy: 0.99 - ETA: 0s - loss: 0.0206 - accuracy: 0.99 - ETA: 0s - loss: 0.0206 - accuracy: 0.99 - ETA: 0s - loss: 0.0206 - accuracy: 0.99 - ETA: 0s - loss: 0.0206 - accuracy: 0.99 - ETA: 0s - loss: 0.0206 - accuracy: 0.99 - ETA: 0s - loss: 0.0207 - accuracy: 0.99 - ETA: 0s - loss: 0.0207 - accuracy: 0.99 - ETA: 0s - loss: 0.0207 - accuracy: 0.99 - ETA: 0s - loss: 0.0207 - accuracy: 0.99 - ETA: 0s - loss: 0.0207 - accuracy: 0.99 - ETA: 0s - loss: 0.0207 - accuracy: 0.99 - ETA: 0s - loss: 0.0207 - accuracy: 0.99 - ETA: 0s - loss: 0.0207 - accuracy: 0.99 - ETA: 0s - loss: 0.0207 - accuracy: 0.99 - ETA: 0s - loss: 0.0207 - accuracy: 0.99 - ETA: 0s - loss: 0.0207 - accuracy: 0.99 - ETA: 0s - loss: 0.0207 - accuracy: 0.99 - ETA: 0s - loss: 0.0207 - accuracy: 0.99 - ETA: 0s - loss: 0.0207 - accuracy: 0.9968 - accuracy: 0.9975 - val_loss: 0.0207 - accuracy: 0.9968 - accuracy: 0

186/322 [=========>......] - ETA: 0s - loss: 0.0034 - accuracy: 1.00 - ETA: 28s - loss: 0.0033 - accuracy: 1.000 - ETA: 35s - loss: 0.0034 - accuracy: 1.000 - ETA: 38s - loss: 0.0037 - accuracy: 1.000 - ETA: 49s - loss: 0.0033 - accuracy: 1.000 - ETA: 58s - loss: 0.0033 - accuracy: 1.000 - ETA: 58s - loss: 0.0033 - accuracy: 0.99 - ETA: 58s - loss: 0.0239 - accuracy: 0.9965 - ETA: 57s - loss: 0.0219 - accuracy: 0.996 - ETA: 1:01 - loss: 0.0203 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0190 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0168 - accuracy: 0.99 - ETA: 0.0168 loss: 0.0160 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0152 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0145 - accuracy: 0.99 - ETA: 1:04 - lo ss: 0.0139 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0133 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0129 - accuracy: 0.99 - ETA: 1:04 - los s: 0.0124 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0120 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0116 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0113 - accuracy: 0.99 - ETA: 59s - loss: 0.0109 - accuracy: 0.9987 - ETA: 59s - loss: 0.0106 - accuracy: 0.998 - ETA: 59s - loss: 0. 0177 - accuracy: 0.997 - ETA: 59s - loss: 0.0172 - accuracy: 0.997 - ETA: 58s - loss: 0.0167 - accuracy: 0.997 - ETA: 57s - loss: 0.01 63 - accuracy: 0.997 - ETA: 57s - loss: 0.0227 - accuracy: 0.997 - ETA: 57s - loss: 0.0221 - accuracy: 0.997 - ETA: 59s - loss: 0.0216 - accuracy: 0.997 - ETA: 1:03 - loss: 0.0211 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0202 accuracy: 0.99 - ETA: 1:02 - loss: 0.0198 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0191 - ac curacy: 0.99 - ETA: 1:03 - loss: 0.0187 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0184 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0180 - accu racy: 0.99 - ETA: 1:01 - loss: 0.0177 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0174 - accuracy: 0.99 - ETA: 59s - loss: 0.0171 - accurac y: 0.9979 - ETA: 1:00 - loss: 0.0169 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0166 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0163 - accuracy y: 0.99 - ETA: 1:00 - loss: 0.0161 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0158 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0156 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0192 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0189 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0187 - accuracy: 0. 99 - ETA: 1:00 - loss: 0.0184 - accuracy: 0.99 - ETA: 59s - loss: 0.0182 - accuracy: 0.9978 - ETA: 59s - loss: 0.0179 - accuracy: 0.99 7 - ETA: 1:00 - loss: 0.0177 - accuracy: 0.99 - ETA: 59s - loss: 0.0175 - accuracy: 0.9979 - ETA: 59s - loss: 0.0172 - accuracy: 0.997 - ETA: 58s - loss: 0.0170 - accuracy: 0.998 - ETA: 58s - loss: 0.0198 - accuracy: 0.997 - ETA: 57s - loss: 0.0195 - accuracy: 0.997 - ETA: 58s - loss: 0.0193 - accuracy: 0.997 - ETA: 58s - loss: 0.0193 - accuracy: 0.997 - ETA: 58s - loss: 0.0191 - accuracy: 0.997 - ETA: 58s - loss: 0.0189 - accuracy: 0.997 - ETA: 58s - loss: 0.0189 - accuracy: 0.997 - ETA: 58s - loss: 0.0189 - accuracy: 0.997 - ETA: 58s - loss: 0.0189 - accuracy: 0.997 - ETA: 58s - loss: 0.0189 - accuracy: 0.997 - ETA: 58s - loss: 0.0189 - accuracy: 0.997 - ETA: 58s - loss: 0.0191 - accuracy: 0.997 - ETA: 58s - loss: 0.0189 - accuracy: 0.997 - ETA: 58s - loss: 0.0191 - accuracy: 0.997 - ETA: 58s - loss: 0.0189 - accuracy: 0.997 - ETA: 58s - loss: 0.0 TA: 57s - loss: 0.0186 - accuracy: 0.997 - ETA: 56s - loss: 0.0184 - accuracy: 0.997 - ETA: 56s - loss: 0.0182 - accuracy: 0.997 - ETA: 56s - loss: 0.0180 - accuracy: 0.997 - ETA: 56s - loss: 0.0178 - accuracy: 0.997 - ETA: 55s - loss: 0.0176 - accuracy: 0.997 - ETA: 56s - loss: 0.0176 - accuracy: 0.997 - ETA: 56s - loss: 0.0176 - accuracy: 0.997 - ETA: 56s - loss: 0.0178 - accuracy: 0.997 - ETA: 57s - loss: 0.0176 55s - loss: 0.0175 - accuracy: 0.997 - ETA: 54s - loss: 0.0173 - accuracy: 0.997 - ETA: 54s - loss: 0.0197 - accuracy: 0.997 - accuracy: 0.997 - accuracy: 0.997 - ETA: 54s - loss: 0.0197 - accuracy: 0.997 s - loss: 0.0195 - accuracy: 0.997 - ETA: 53s - loss: 0.0193 - accuracy: 0.997 - ETA: 53s - loss: 0.0191 - accuracy: 0.997 - ETA: 53s - loss: 0.0190 - accuracy: 0.997 - ETA: 53s - loss: 0.0188 - accuracy: 0.997 - ETA: 52s - loss: 0.0186 - accuracy: 0.997 - ETA: 52s loss: 0.0206 - accuracy: 0.997 - ETA: 51s - loss: 0.0204 - accuracy: 0.997 - ETA: 51s - loss: 0.0202 - accuracy: 0.997 - ETA: 50s - loss: 0.0200 - accuracy: 0.997 - ETA: 50s - loss: 0.0198 - accuracy: 0.997 - ETA: 50s - loss: 0.0197 - accuracy: 0.997 - ETA: 50s - loss: 0.0195 - accuracy: 0.997 - ETA: 49s - loss: 0.0194 - accuracy: 0.997 - ETA: 49s - loss: 0.0211 - accuracy: 0.997 - ETA: 49s - loss: 0.0209 - accuracy: 0.997 - ETA: 48s - loss: 0.0207 - accuracy: 0.997 - ETA: 48s - loss: 0.0206 - accuracy: 0.997 - ETA: 48s - loss: 0. 0204 - accuracy: 0.997 - ETA: 48s - loss: 0.0203 - accuracy: 0.997 - ETA: 47s - loss: 0.0201 - accuracy: 0.997 - ETA: 47s - loss: 0.02 00 - accuracy: 0.997 - ETA: 47s - loss: 0.0198 - accuracy: 0.997 - ETA: 46s - loss: 0.0197 - accuracy: 0.997 - ETA: 46s - loss: 0.0195 - accuracy: 0.997 - ETA: 46s - loss: 0.0194 - accuracy: 0.997 - ETA: 46s - loss: 0.0192 - accuracy: 0.997 - ETA: 45s - loss: 0.0191 accuracy: 0.997 - ETA: 45s - loss: 0.0189 - accuracy: 0.997 - ETA: 45s - loss: 0.0188 - accuracy: 0.997 - ETA: 44s - loss: 0.0186 - a ccuracy: 0.997 - ETA: 44s - loss: 0.0185 - accuracy: 0.997 - ETA: 44s - loss: 0.0184 - accuracy: 0.997 - ETA: 44s - loss: 0.0182 - acc uracy: 0.997 - ETA: 45s - loss: 0.0181 - accuracy: 0.997 - ETA: 45s - loss: 0.0180 - accuracy: 0.997 - ETA: 44s - loss: 0.0178 - accur acy: 0.997 - ETA: 45s - loss: 0.0177 - accuracy: 0.997 - ETA: 45s - loss: 0.0176 - accuracy: 0.997 - ETA: 45s - loss: 0.0174 - accurac y: 0.997 - ETA: 45s - loss: 0.0173 - accuracy: 0.997 - ETA: 45s - loss: 0.0172 - accuracy: 0.997 - ETA: 45s - loss: 0.0171 - accuracy: 0.997 - ETA: 45s - loss: 0.0169 - accuracy: 0.997 - ETA: 45s - loss: 0.0168 - accuracy: 0.997 - ETA: 46s - loss: 0.0167 - accuracy: 0. 997 - ETA: 46s - loss: 0.0166 - accuracy: 0.998 - ETA: 46s - loss: 0.0165 - accuracy: 0.998 - ETA: 47s - loss: 0.0164 - accuracy: 0.99 8 - ETA: 48s - loss: 0.0162 - accuracy: 0.998 - ETA: 49s - loss: 0.0161 - accuracy: 0.998 - ETA: 49s - loss: 0.0160 - accuracy: 0.998 - ETA: 50s - loss: 0.0159 - accuracy: 0.998 - ETA: 51s - loss: 0.0158 - accuracy: 0.998 - ETA: 51s - loss: 0.0157 - accuracy: 0.998 -ETA: 51s - loss: 0.0156 - accuracy: 0.998 - ETA: 52s - loss: 0.0171 - accuracy: 0.997 - ETA: 52s - loss: 0.0169 - accuracy: 0.997 - ET

```
A: 52s - loss: 0.0168 - accuracy: 0.997 - ETA: 51s - loss: 0.0167 - accuracy: 0.997 - ETA: 51s - loss: 0.0166 - accuracy: 0.997 - ETA: 51s - loss: 0.0165 - accuracy: 0.997 - ETA: 50s - loss: 0.0164 - accuracy: 0.998 - ETA: 50s - loss: 0.0163 - accuracy: 0.998 - ETA: 50
s - loss: 0.0162 - accuracy: 0.998 - ETA: 50s - loss: 0.0161 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - acc
loss: 0.0157 - accuracy: 0.998 - ETA: 48s - loss: 0.0156 - accuracy: 0.998 - ETA: 48s - loss: 0.0157 - accuracy: 0.998 - ETA: 47s - lo
ss: 0.0154 - accuracy: 0.998 - ETA: 47s - loss: 0.0153 - accuracy: 0.998 - ETA: 47s - loss: 0.0152 - accuracy: 0.998 - ETA: 46s - loss: 0.0151 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy:
0.0163 - accuracy: 0.998 - ETA: 45s - loss: 0.0162 - accuracy: 0.998 - ETA: 45s - loss: 0.0161 - accuracy: 0.998 - ETA: 45s - loss: 0.
0160 - accuracy: 0.998 - ETA: 44s - loss: 0.0159 - accuracy: 0.998 - ETA: 44s - loss: 0.0159 - accuracy: 0.998 - ETA: 44s - loss: 0.01
 58 - accuracy: 0.998 - ETA: 43s - loss: 0.0157 - accuracy: 0.998 - ETA: 43s - loss: 0.0156 - accuracy: 0.998 - ETA: 43s - loss: 0.0156
 - accuracy: 0.998 - ETA: 43s - loss: 0.0155 - accuracy: 0.998 - ETA: 43s - loss: 0.0154 - accuracy: 0.998 - ETA: 42s - loss: 0.0166 -
  accuracy: 0.997 - ETA: 42s - loss: 0.0165 - accuracy: 0.998 - ETA: 42s - loss: 0.0164 - accuracy: 0.998 - ETA: 41s - loss: 0.0163 - a
 ccuracy: 0.998 - ETA: 41s - loss: 0.0163 - accuracy: 0.998 - ETA: 41s - loss: 0.0172 - accuracy: 0.997 - ETA: 41s - loss: 0.0172 - acc
 uracy: 0.997 - ETA: 40s - loss: 0.0171 - accuracy: 0.997 - ETA: 40s - loss: 0.0170 - accuracy: 0.997 - ETA: 40s - loss: 0.0180 - accur
acy: 0.997 - ETA: 39s - loss: 0.0179 - accuracy: 0.997 - ETA: 39s - loss: 0.0179 - accuracy: 0.997 - ETA: 39s - loss: 0.0178 - accuracy
y: 0.997 - ETA: 38s - loss: 0.0177 - accuracy: 0.997 - ETA: 38s - loss: 0.0177 - accuracy: 0.997 - ETA: 38s - loss: 0.0176 - accuracy:
 0.997 - ETA: 38s - loss: 0.0176 - accuracy: 0.997 - ETA: 38s - loss: 0.0175 - accuracy: 0.997 - ETA: 37s - loss: 0.0175 - accuracy: 0.
 997 - ETA: 37s - loss: 0.0174 - accuracy: 0.9978322/322 [==================] - ETA: 37s - loss: 0.0173 - accuracy: 0.997 -
ETA: 37s - loss: 0.0173 - accuracy: 0.997 - ETA: 36s - loss: 0.0172 - accuracy: 0.997 - ETA: 36s - loss: 0.0171 - accuracy: 0.997 - ETA
 A: 36s - loss: 0.0171 - accuracy: 0.997 - ETA: 35s - loss: 0.0170 - accuracy: 0.997 - ETA: 35s - loss: 0.0170 - accuracy: 0.997 - ETA:
35s - loss: 0.0169 - accuracy: 0.997 - ETA: 35s - loss: 0.0168 - accuracy: 0.997 - ETA: 34s - loss: 0.0168 - accuracy: 0.997 - ETA: 34
s - loss: 0.0167 - accuracy: 0.997 - ETA: 34s - loss: 0.0166 - accuracy: 0.997 - ETA: 34s - loss: 0.0166 - accuracy: 0.998 - ETA: 33s - loss: 0.0165 - accuracy: 0.998 - ETA: 33s - loss: 0.0164 - accuracy: 0.998 - ETA: 33s - loss: 0.0164 - accuracy: 0.998 - ETA: 33s - loss: 0.0164 - accuracy: 0.998 - ETA: 33s - loss: 0.0164 - accuracy: 0.998 - ETA: 33s - loss: 0.0164 - accuracy: 0.998 - ETA: 33s - loss: 0.0164 - accuracy: 0.998 - ETA: 33s - loss: 0.0164 - accuracy: 0.998 - ETA: 33s - loss: 0.0164 - accuracy: 0.998 - ETA: 33s - loss: 0.0164 - accuracy: 0.998 - ETA: 33s - loss: 0.0164 - accuracy: 0.998 - ETA: 33s - loss: 0.0164 - accuracy: 0.998 - ETA: 33s - loss: 0.0164 - accuracy: 0.998 - ETA: 33s - loss: 0.0164 - accuracy: 0.998 - ETA: 33s - loss: 0.0164 - accuracy: 0.998 - ETA: 33s - loss: 0.0164 - accuracy: 0.998 - ETA: 33s - loss: 0.0164 - accuracy: 0.998 - ETA: 33s - loss: 0.0164 - accuracy: 0.998 - ETA: 34s - loss: 0.0164 - accuracy: 0.998 - ETA: 33s - loss: 0.0164 - accuracy: 0.998 - ETA: 34s - loss: 0.0164 - accuracy: 0.998 - ETA: 33s - loss: 0.0164 - accuracy: 0.998 - ETA: 34s - loss: 0.0164 - accuracy: 0.998 - ETA: 34s - loss: 0.0164 - accuracy: 0.998 - ETA: 34s - loss: 0.0164 - accuracy: 0.998 - ETA: 34s - loss: 0.0164 - accuracy: 0.998 - ETA: 34s - loss: 0.0164 - accuracy: 0.998 - ETA: 34s - loss: 0.0164 - accuracy: 0.998 - ETA: 34s - loss: 0.0164 - accuracy: 0.998 - ETA: 34s - loss: 0.0164 - accuracy: 0.998 - ETA: 34s - loss: 0.0164 - accuracy: 0.998 - ETA: 34s - loss: 0.0164 - accuracy: 0.998 - ETA: 34s - loss: 0.0164 - accuracy: 0.998 - ETA: 34s - loss: 0.0164 - accuracy: 0.998 - ETA: 34s - loss: 0.0164 - accuracy: 0.998 - ETA: 34s - loss: 0.0164 - accuracy: 0.998 - ETA: 34s - loss: 0.0164 - accuracy: 0.998 - ETA: 34s - loss: 0.0164 - accuracy: 0.998 - ETA: 34s - loss: 0.0164 - accuracy: 0.998 - ETA: 34s - loss: 0.0164 - accuracy: 0.998 - ETA: 34s - loss: 0.0164 - accuracy: 0.998 - ETA: 34s - loss: 0.0164 - accuracy: 0.998 - ETA: 34s - loss: 0.0164 - accuracy: 0.998 - ETA: 34s - loss: 0.0164 - acc
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0155 - accuracy: 0.998 - ETA: 29s - loss: 0.0154 - accuracy: 0.998 - ETA: 29s - loss: 0.0154 - accuracy: 0.998 - ETA: 29s - loss: 0.01
53 - accuracy: 0.998 - ETA: 29s - loss: 0.0153 - accuracy: 0.998 - ETA: 28s - loss: 0.0162 - accuracy: 0.998 - ETA: 28s - loss: 0.0161
 - accuracy: 0.998 - ETA: 28s - loss: 0.0161 - accuracy: 0.998 - ETA: 28s - loss: 0.0160 - accuracy: 0.998 - ETA: 27s - loss: 0.0159 - accuracy: 0.998 - ETA: 27s - loss: 0.0159 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.0158 - accuracy: 0.998 - ETA: 27s - loss: 0.998 - ETA: 27s - loss: 0.99
 ccuracy: 0.998 - ETA: 26s - loss: 0.0157 - accuracy: 0.998 - ETA: 26s - loss: 0.0157 - accuracy: 0.998 - ETA: 26s - loss: 0.0156 - acc
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 0.998 - ETA: 23s - loss: 0.0159 - accuracy: 0.998 - ETA: 23s - loss: 0.0159 - accuracy: 0.998 - ETA: 22s - loss: 0.0158 - accuracy: 0.
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 8 - ETA: 21s - loss: 0.0164 - accuracy: 0.998 - ETA: 21s - loss: 0.0164 - accuracy: 0.998 - ETA: 21s - loss: 0.0163 - accuracy: 0.998
   - ETA: 20s - loss: 0.0163 - accuracy: 0.998 - ETA: 20s - loss: 0.0162 - accuracy: 0.998 - ETA: 20s - loss: 0.0162 - accuracy: 0.998 -
 ETA: 20s - loss: 0.0161 - accuracy: 0.998 - ETA: 19s - loss: 0.0161 - accuracy: 0.998 - ETA: 19s - loss: 0.0160 - accuracy: 0.998 - ET
A: 19s - loss: 0.0167 - accuracy: 0.997 - ETA: 18s - loss: 0.0167 - accuracy: 0.997 - ETA: 18s - loss: 0.0166 - accuracy: 0.997 - ETA:
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ss: 0.0180 - accuracy: 0.997 - ETA: 14s - loss: 0.0180 - accuracy: 0.997 - ETA: 14s - loss: 0.0180 - accuracy: 0.997 - ETA: 13s - los
s: 0.0179 - accuracy: 0.997 - ETA: 13s - loss: 0.0179 - accuracy: 0.997 - ETA: 13s - loss: 0.0179 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 0.997 - ETA: 12s - loss: 0.0178 - accuracy: 
0183 - accuracy: 0.997 - ETA: 11s - loss: 0.0188 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997
 - accuracy: 0.997 - ETA: 10s - loss: 0.0192 - accuracy: 0.997 - ETA: 10s - loss: 0.0192 - accuracy: 0.997 - ETA: 10s - loss: 0.0197 -
  accuracy: 0.997 - ETA: 9s - loss: 0.0196 - accuracy: 0.997 - ETA: 9s - loss: 0.0196 - accuracy: 0.99 - ETA: 9s - loss: 0.0196 - accur
acy: 0.99 - ETA: 8s - loss: 0.0195 - accuracy: 0.99 - ETA: 8s - loss: 0.0195 - accuracy: 0.99 - ETA: 8s - loss: 0.0195 - accuracy: 0.99
 9 - ETA: 8s - loss: 0.0194 - accuracy: 0.99 - ETA: 7s - loss: 0.0199 - accuracy: 0.99 - ETA: 7s - loss: 0.0199 - accuracy: 0.99 - ETA:
7s - loss: 0.0198 - accuracy: 0.99 - ETA: 6s - loss: 0.0198 - accuracy: 0.99 - ETA: 6s - loss: 0.0197 - accuracy: 0.99 - ETA: 6s - los
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 6 - accuracy: 0.99 - ETA: 5s - loss: 0.0195 - accuracy: 0.99 - ETA: 4s - loss: 0.0195 - accuracy: 0.99 - ETA: 4s - loss: 0.0194 - accu
racy: 0.99 - ETA: 4s - loss: 0.0194 - accuracy: 0.99 - ETA: 3s - loss: 0.0193 - accuracy: 0.99 - ETA: 3s - loss: 0.0193 - accuracy: 0.
 99 - ETA: 3s - loss: 0.0198 - accuracy: 0.99 - ETA: 3s - loss: 0.0198 - accuracy: 0.99 - ETA: 2s - loss: 0.0197 - accuracy: 0.99 - ET
A: 2s - loss: 0.0197 - accuracy: 0.99 - ETA: 2s - loss: 0.0196 - accuracy: 0.99 - ETA: 1s - loss: 0.0196 - accuracy: 0.99 - ETA: 1s -
  loss: 0.0195 - accuracy: 0.99 - ETA: 1s - loss: 0.0195 - accuracy: 0.99 - ETA: 0s - loss: 0.0194 - accuracy: 0.99 - ETA: 0s - loss:
  0.0194 - accuracy: 0.99 - ETA: 0s - loss: 0.0193 - accuracy: 0.99 - ETA: 0s - loss: 0.0193 - accuracy: 0.99 - 108s 336ms/step - loss:
 0.0193 - accuracy: 0.9975 - val_loss: 0.0233 - val_accuracy: 0.9968
  171/322 [=========>......] - ETA: 0s - loss: 0.0032 - accuracy: 1.00 - ETA: 26s - loss: 0.0031 - accuracy: 1.000 - ETA: 34s - loss: 0.0031 - accuracy: 1.000 - ETA: 41s - loss: 0.0030 - accuracy: 1.000 - ETA: 1:00 - loss: 0.0030 - accuracy: 1.00 - ETA:
 171/322 [=====
```

1:04 - loss: 0.0030 - accuracy: 1.00 - ETA: 1:06 - loss: 0.0030 - accuracy: 1.00 - ETA: 1:06 - loss: 0.0029 - accuracy: 1.00 - ETA: 1:06 - loss: 0.0029 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0029 - accuracy: 1.00 - ETA: 1:15 - loss: 0.0029 - accuracy: 1.00 - ETA: 1:14 - loss: 0.0028 - accuracy: 1.00 - ETA: 1:12 - loss: 0.0028 - accuracy: 1.00 - ETA: 1:10 - loss: 0.0179 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0169 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0161 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0153 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0146 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0141 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0135 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0130 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0126 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0122 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0118 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0114 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0111 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0108 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0105 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0102 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0100 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0098 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0095 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0093 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0091 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0090 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0088 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0086 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0142 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0139 - accuracy: 0.99 - ETA: 59s - loss: 0.0136 - accuracy: 0.9984 - ETA: 59s - loss: 0.0182 - accuracy: 0.997 - ETA: 58s - loss: 0.0179 - accuracy: 0.997 - ETA: 57s - loss: 0.0176 - accuracy: 0.997 - ETA: 58s - loss: 0.0173 - accuracy: 0.997 - ETA: 5 8s - loss: 0.0170 - accuracy: 0.997 - ETA: 59s - loss: 0.0167 - accuracy: 0.998 - ETA: 59s - loss: 0.0165 - accuracy: 0.998 - ETA: 58s - loss: 0.0162 - accuracy: 0.998 - ETA: 58s - loss: 0.0160 - accuracy: 0.998 - ETA: 57s - loss: 0.0158 - accuracy: 0.998 - ETA: 57s loss: 0.0155 - accuracy: 0.998 - ETA: 58s - loss: 0.0153 - accuracy: 0.998 - ETA: 57s - loss: 0.0151 - accuracy: 0.998 - ETA: 57s - l oss: 0.0149 - accuracy: 0.998 - ETA: 57s - loss: 0.0147 - accuracy: 0.998 - ETA: 56s - loss: 0.0145 - accuracy: 0.998 - ETA: 56s - los s: 0.0143 - accuracy: 0.998 - ETA: 57s - loss: 0.0142 - accuracy: 0.998 - ETA: 57s - loss: 0.0140 - accuracy: 0.998 - ETA: 58s - loss: 0.0138 - accuracy: 0.998 - ETA: 58s - loss: 0.0136 - accuracy: 0.998 - ETA: 59s - loss: 0.0135 - accuracy: 0.998 - ETA: 59s - loss: 0. 0133 - accuracy: 0.998 - ETA: 59s - loss: 0.0132 - accuracy: 0.998 - ETA: 58s - loss: 0.0130 - accuracy: 0.998 - ETA: 58s - loss: 0.01 29 - accuracy: 0.998 - ETA: 57s - loss: 0.0157 - accuracy: 0.998 - ETA: 58s - loss: 0.0155 - accuracy: 0.998 - ETA: 57s - loss: 0.0153 - accuracy: 0.998 - ETA: 57s - loss: 0.0177 - accuracy: 0.997 - ETA: 56s - loss: 0.0175 - accuracy: 0.997 - ETA: 56s - loss: 0.0173 accuracy: 0.997 - ETA: 56s - loss: 0.0172 - accuracy: 0.997 - ETA: 55s - loss: 0.0170 - accuracy: 0.997 - ETA: 55s - loss: 0.0168 - a ccuracy: 0.997 - ETA: 55s - loss: 0.0167 - accuracy: 0.997 - ETA: 55s - loss: 0.0165 - accuracy: 0.998 - ETA: 55s - loss: 0.0162 - accuracy: 0.998 - ETA: 55s - loss: 0.0161 - accuracy: 0.998 - ETA: 59s - loss: 0.0159 - accuracy: 0.998 - ETA: acy: 0.998 - ETA: 59s - loss: 0.0158 - accuracy: 0.998 - ETA: 58s - loss: 0.0156 - accuracy: 0.998 - ETA: 58s - loss: 0.0155 - accuracy: 0.998 - ETA: 58s - loss: 0.0154 - accuracy: 0.998 - ETA: 58s - loss: 0.0152 - accuracy: 0.998 - ETA: 58s - loss: 0.0151 - accuracy: 0.998 - ETA: 58s - loss: 0.0150 - accuracy: 0.998 - ETA: 57s - loss: 0.0148 - accuracy: 0.998 - ETA: 57s - loss: 0.0147 - accuracy: 0. 998 - ETA: 57s - loss: 0.0146 - accuracy: 0.998 - ETA: 57s - loss: 0.0145 - accuracy: 0.998 - ETA: 57s - loss: 0.0143 - accuracy: 0.998 8 - ETA: 57s - loss: 0.0142 - accuracy: 0.998 - ETA: 56s - loss: 0.0163 - accuracy: 0.998 - ETA: 56s - loss: 0.0162 - accuracy: 0.998 - ETA: 56s - loss: 0.0160 - accuracy: 0.998 - ETA: 56s - loss: 0.0159 - accuracy: 0.998 - ETA: 55s - loss: 0.0158 - accuracy: 0.998 -ETA: 55s - loss: 0.0156 - accuracy: 0.998 - ETA: 55s - loss: 0.0155 - accuracy: 0.998 - ETA: 54s - loss: 0.0154 - accuracy: 0.998 - ET A: 54s - loss: 0.0153 - accuracy: 0.998 - ETA: 54s - loss: 0.0152 - accuracy: 0.998 - ETA: 53s - loss: 0.0151 - accuracy: 0.998 - ETA: 53s - loss: 0.0150 - accuracy: 0.998 - ETA: 52s - loss: 0.0148 - accuracy: 0.998 - ETA: 52s - loss: 0.0147 - accuracy: 0.998 - ETA: 52 s - loss: 0.0146 - accuracy: 0.998 - ETA: 51s - loss: 0.0145 - accuracy: 0.998 - ETA: 51s - loss: 0.0144 - accuracy: 0.998 - ETA: 51s - loss: 0.0143 - accuracy: 0.998 - ETA: 51s - loss: 0.0142 - accuracy: 0.998 - ETA: 51s - loss: 0.0141 - accuracy: 0.998 - ETA: 51s loss: 0.0140 - accuracy: 0.998 - ETA: 50s - loss: 0.0139 - accuracy: 0.998 - ETA: 50s - loss: 0.0138 - accuracy: 0.998 - ETA: 50s - lo ss: 0.0137 - accuracy: 0.998 - ETA: 50s - loss: 0.0136 - accuracy: 0.998 - ETA: 50s - loss: 0.0135 - accuracy: 0.998 - ETA: 50s - loss s: 0.0151 - accuracy: 0.998 - ETA: 50s - loss: 0.0150 - accuracy: 0.998 - ETA: 50s - loss: 0.0149 - accuracy: 0.998 - ETA: 50s - loss: 0.0148 - accuracy: 0.998 - ETA: 49s - loss: 0.0148 - accuracy: 0.998 - ETA: 49s - loss: 0.0147 - accuracy: 0.998 - ETA: 49s - loss: 0. 0146 - accuracy: 0.998 - ETA: 49s - loss: 0.0145 - accuracy: 0.998 - ETA: 49s - loss: 0.0144 - accuracy: 0.998 - ETA: 48s - loss: 0.01 43 - accuracy: 0.998 - ETA: 48s - loss: 0.0158 - accuracy: 0.998 - ETA: 48s - loss: 0.0157 - accuracy: 0.998 - ETA: 47s - loss: 0.0156 - accuracy: 0.998 - ETA: 47s - loss: 0.0155 - accuracy: 0.998 - ETA: 47s - loss: 0.0154 - accuracy: 0.998 - ETA: 46s - loss: 0.0154 accuracy: 0.998 - ETA: 46s - loss: 0.0153 - accuracy: 0.998 - ETA: 46s - loss: 0.0152 - accuracy: 0.998 - ETA: 46s - loss: 0.0151 - a ccuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 46s - loss: 0.0150 - accuracy: 0.998 - ETA: 45s - loss: 0.0162 - acc uracy: 0.998 - ETA: 45s - loss: 0.0161 - accuracy: 0.998 - ETA: 45s - loss: 0.0160 - accuracy: 0.998 - ETA: 45s - loss: 0.998 - ETA: 45s - loss: 0.998 - E acy: 0.998 - ETA: 44s - loss: 0.0159 - accuracy: 0.998 - ETA: 44s - loss: 0.0158 - accuracy: 0.998 - ETA: 44s - loss: 0.0157 - accuracy y: 0.998 - ETA: 44s - loss: 0.0157 - accuracy: 0.998 - ETA: 43s - loss: 0.0156 - accuracy: 0.998 - ETA: 43s - loss: 0.0155 - accuracy: 0.998 - ETA: 43s - loss: 0.0154 - accuracy: 0.998 - ETA: 42s - loss: 0.0154 - accuracy: 0.998 - ETA: 42s - loss: 0.0151 - accuracy: 0.998 - ETA: 42s - loss: 0.0151 - accuracy: 0.998 - ETA: 42s - loss: 0.0151 - accuracy: 0.998 8 - ETA: 42s - loss: 0.0150 - accuracy: 0.998 - ETA: 42s - loss: 0.0149 - accuracy: 0.998 - ETA: 41s - loss: 0.0160 - accuracy: 0.998 - ETA: 41s - loss: 0.0160 - accuracy: 0.998 - ETA: 41s - loss: 0.0159 - accuracy: 0.998 - ETA: 41s - loss: 0 ETA: 42s - loss: 0.0157 - accuracy: 0.998 - ETA: 42s - loss: 0.0157 - accuracy: 0.998 - ETA: 42s - loss: 0.0167 - accuracy: 0.997 - ET A: 43s - loss: 0.0178 - accuracy: 0.997 - ETA: 44s - loss: 0.0177 - accuracy: 0.997 - ETA: 45s - loss: 0.0186 - accuracy: 0.997 - ETA: 46s - loss: 0.0186 - accuracy: 0.997 - ETA: 45s - loss: 0.0186 - accuracy: 0.9976WARNING:tensorflow:Method (on_train_batch_end) is slo w compared to the batch update (0.314580). Check your callbacks. A: 45s - loss: 0.0184 - accuracy: 0.9977WARNING:tensorflow:Method (on_train_batch_end) is slow compared to the batch update (0.24856 9). Check your callbacks. A: 44s - loss: 0.0192 - accuracy: 0.997 - ETA: 44s - loss: 0.0192 - accuracy: 0.997 - ETA: 44s - loss: 0.0191 - accuracy: 0.997 - ETA: 44s - loss: 0.0191 - accuracy: 0.997 - ETA: 43s - loss: 0.0190 - accuracy: 0.997 - ETA: 43s - loss: 0.997 s - loss: 0.0198 - accuracy: 0.997 - ETA: 42s - loss: 0.0198 - accuracy: 0.997 - ETA: 42s - loss: 0.0205 - accuracy: 0.997 - ETA: 42s - loss: 0.0205 - accuracy: 0.997 - ETA: 41s - loss: 0.0204 - accuracy: 0.997 - ETA: 41s - loss: 0.0204 - accuracy: 0.997 - ETA: 41s loss: 0.0203 - accuracy: 0.997 - ETA: 40s - loss: 0.0203 - accuracy: 0.997 - ETA: 40s - loss: 0.0202 - accuracy: 0.997 - ETA: 39s - lo ss: 0.0202 - accuracy: 0.997 - ETA: 39s - loss: 0.0201 - accuracy: 0.997 - ETA: 39s - loss: 0.0200 - accuracy: 0.997 - ETA: 38s - los s: 0.0217 - accuracy: 0.997 - ETA: 38s - loss: 0.0216 - accuracy: 0.997 - ETA: 38s - loss: 0.0216 - accuracy: 0.997 - ETA: 37s - loss: 0.0215 - accuracy: 0.997 - ETA: 37s - loss: 0.0214 - accuracy: 0.997 - ETA: 37s - loss: 0.0214 - accuracy: 0.997 - ETA: 36s - loss: 0. 0213 - accuracy: 0.997 - ETA: 36s - loss: 0.0212 - accuracy: 0.997 - ETA: 36s - loss: 0.0212 - accuracy: 0.997 - ETA: 36s - loss: 0.02 11 - accuracy: 0.997 - ETA: 35s - loss: 0.0210 - accuracy: 0.997 - ETA: 35s - loss: 0.0209 - accuracy: 0.997 - ETA: 35s - loss: 0.0209 - accuracy: 0.997 - ETA: 34s - loss: 0.0208 - accuracy: 0.997 - ETA: 34s - loss: 0.0207 - accuracy: 0.997 - ETA: 34s - loss: 0.0206 accuracy: 0.997 - ETA: 33s - loss: 0.0205 - accuracy: 0.997 - ETA: 33s - loss: 0.0205 - accuracy: 0.997 - ETA: 32s - loss: 0.0204 - a ccuracy: 0.997 - ETA: 32s - loss: 0.0203 - accuracy: 0.997 - ETA: 32s - loss: 0.0204 - accuracy: 0.997 - ETA: 31s - loss: 0.0202 - accuracy: 0.997 - ETA: 31s - loss: 0.0203 - accuracy: 0.997 - ETA: 31s - loss: 0.0203 - accuracy: 0.997 - ETA: 31s - loss: 0.0204 - accuracy: 0.997 - ETA: 31s - loss: 0.0205 - accuracy: 0.997 - ETA uracy: 0.997 - ETA: 31s - loss: 0.0201 - accuracy: 0.997 - ETA: 31s - loss: 0.0209 - accuracy: 0.997 - ETA: 30s - loss: 0.0208 - accuracy: 0.997 - ETA: 30 y: 0.997 - ETA: 29s - loss: 0.0206 - accuracy: 0.997 - ETA: 29s - loss: 0.0205 - accuracy: 0.997 - ETA: 28s - loss: 0.0204 - accuracy: 0.997 - ETA: 28s - loss: 0.0203 - accuracy: 0.997 - ETA: 28s - loss: 0.0203 - accuracy: 0.997 - ETA: 27s - loss: 0.0202 - accuracy: 0. 997 - ETA: 27s - loss: 0.0210 - accuracy: 0.997 - ETA: 27s - loss: 0.0217 - accuracy: 0.997 - ETA: 26s - loss: 0.0217 - accuracy: 0.99 7 - ETA: 26s - loss: 0.0216 - accuracy: 0.997 - ETA: 25s - loss: 0.0215 - accuracy: 0.997 - ETA: 25s - loss: 0.0215 - accuracy: 0.997 - ETA: 25s - loss: 0.0214 - accuracy: 0.997 - ETA: 24s - loss: 0.0213 - accuracy: 0.997 - ETA: 24s - loss: 0.0219 - accuracy: 0.997 -ETA: 24s - loss: 0.0219 - accuracy: 0.997 - ETA: 23s - loss: 0.0218 - accuracy: 0.997 - ETA: 23s - loss: 0.0217 - accuracy: 0.997 - ET A: 23s - loss: 0.0217 - accuracy: 0.997 - ETA: 23s - loss: 0.0216 - accuracy: 0.997 - ETA: 22s - loss: 0.0216 - accuracy: 0.997 - ETA: 22s - loss: 0.0215 - accuracy: 0.997 - ETA: 22s - loss: 0.0214 - accuracy: 0.997 - ETA: 21s - loss: 0.0214 - accuracy: 0.997 - ETA: 21 s - loss: 0.0213 - accuracy: 0.997 - ETA: 21s - loss: 0.0212 - accuracy: 0.997 - ETA: 20s - loss: 0.0212 - accuracy: 0.997 - ETA: 20s - loss: 0.0211 - accuracy: 0.997 - ETA: 20s - loss: 0.0211 - accuracy: 0.997 - ETA: 19s - loss: 0.0210 - accuracy: 0.997 - ETA: 19s loss: 0.0209 - accuracy: 0.997 - ETA: 19s - loss: 0.0209 - accuracy: 0.997 - ETA: 18s - loss: 0.0208 - accuracy: 0.997 - ETA: 18s - lo ss: 0.0207 - accuracy: 0.997 - ETA: 18s - loss: 0.0207 - accuracy: 0.997 - ETA: 18s - loss: 0.0206 - accuracy: 0.997 - ETA: 17s - los s: 0.0205 - accuracy: 0.997 - ETA: 17s - loss: 0.0205 - accuracy: 0.997 - ETA: 17s - loss: 0.0204 - accuracy: 0.997 - ETA: 16s - loss: 0.0203 - accuracy: 0.997 - ETA: 16s - loss: 0.0203 - accuracy: 0.997 - ETA: 16s - loss: 0.0202 - accuracy: 0.997 - ETA: 16s - loss: 0. 0201 - accuracy: 0.997 - ETA: 15s - loss: 0.0201 - accuracy: 0.997 - ETA: 15s - loss: 0.0200 - accuracy: 0.997 - ETA: 15s - loss: 0.01 99 - accuracy: 0.997 - ETA: 14s - loss: 0.0199 - accuracy: 0.997 - ETA: 14s - loss: 0.0198 - accuracy: 0.997 - ETA: 14s - loss: 0.0197 - accuracy: 0.997 - ETA: 13s - loss: 0.0197 - accuracy: 0.997 - ETA: 13s - loss: 0.0196 - accuracy: 0.997 - ETA: 13s - loss: 0.0195 accuracy: 0.997 - ETA: 13s - loss: 0.0195 - accuracy: 0.997 - ETA: 12s - loss: 0.0194 - accuracy: 0.997 - ac ccuracy: 0.997 - ETA: 12s - loss: 0.0201 - accuracy: 0.997 - ETA: 11s - loss: 0.0201 - accuracy: 0.997 - ETA: 11s - loss: 0.0200 - acc uracy: 0.997 - ETA: 11s - loss: 0.0199 - accuracy: 0.997 - ETA: 11s - loss: 0.0199 - accuracy: 0.997 - ETA: 10s - loss: 0.0198 - accur acy: 0.997 - ETA: 10s - loss: 0.0198 - accuracy: 0.997 - ETA: 10s - loss: 0.0197 - accuracy: 0.997 - ETA: 9s - loss: 0.0197 - accuracy y: 0.997 - ETA: 9s - loss: 0.0196 - accuracy: 0.99 - ETA: 9s - loss: 0.0195 - accuracy: 0.99 - ETA: 9s - loss: 0.0195 - accuracy: 0.99 - ETA: 8s - loss: 0.0194 - accuracy: 0.99 - ETA: 8s - loss: 0.0 s - loss: 0.0199 - accuracy: 0.99 - ETA: 7s - loss: 0.0199 - accuracy: 0.99 - ETA: 7s - loss: 0.0198 - accuracy: 0.99 - ETA: 7s - loss: 0.0198 - accuracy: 0.99 - ETA: 6s - loss: 0.0197 - accuracy: 0.99 - ETA: 6s - loss: 0.0196 - accuracy: 0.99 - ETA: 6s - loss: 0.0197 6 - accuracy: 0.99 - ETA: 6s - loss: 0.0195 - accuracy: 0.99 - ETA: 5s - loss: 0.0195 - accuracy: 0.99 - ETA: 5s - loss: 0.0194 - accu racy: 0.99 - ETA: 5s - loss: 0.0194 - accuracy: 0.99 - ETA: 4s - loss: 0.0193 - accuracy: 0.99 - ETA: 4s - loss: 0.0193 - accuracy: 0. 99 - ETA: 4s - loss: 0.0192 - accuracy: 0.99 - ETA: 4s - loss: 0.0192 - accuracy: 0.99 - ETA: 3s - loss: 0.0191 - accuracy: 0.99 - ETA A: 3s - loss: 0.0191 - accuracy: 0.99 - ETA: 3s - loss: 0.0196 - accuracy: 0.99 - ETA: 2s - loss: 0.0196 - accuracy: 0.99 - ETA: 2s loss: 0.0195 - accuracy: 0.99 - ETA: 2s - loss: 0.0195 - accuracy: 0.99 - ETA: 2s - loss: 0.0194 - accuracy: 0.99 - ETA: 1s - loss: 0.0194 - accuracy: 0.99 - ETA: 1s - loss: 0.0193 - accuracy: 0.99 - ETA: 1s - loss: 0.0193 - accuracy: 0.99 - ETA: 1s - loss: 0.0192 - accuracy: 0.99 - ETA: 0s - loss: 0.0198 - accuracy: 0.99 - ETA: 0s - loss: 0.0197 - accuracy: 0.99 - ETA: 0.90 - accuracy: 0.99 - ETA: 0.90 - accuracy: 0.99 - accuracy: 0 acy: 0.99 - ETA: 0s - loss: 0.0197 - accuracy: 0.99 - 91s 283ms/step - loss: 0.0197 - accuracy: 0.9975 - val_loss: 0.0228 - val_accura cy: 0.9968 Epoch 37/50

186/322 [===========>>......] - ETA: 0s - loss: 0.0042 - accuracy: 1.00 - ETA: 23s - loss: 0.0044 - accuracy: 1.000 - ETA: 39s - loss: 0.0044 - accuracy: 1.000 - ETA: 46s - loss: 0.0044 - accuracy: 1.000 - ETA: 1:07 - loss: 0.0044 - accuracy: 1.00 - ETA: 1:05 - loss: 0.0043 - accuracy: 1.00 - ETA: 1:03 - loss: 0.0043 - accuracy: 1.00 - ETA: 1:01 - loss: 0.0042 - accuracy: 1.00 - ETA: 1:01 - loss: 0.0042 - accuracy: 1.00 - ETA: 1:01 - loss: 0.0043 - accuracy: 1.00 - ETA: 1:03 - loss: 0.0044 - accuracy: 1.00 - ETA: 1:07 - loss: 0.0044 - accuracy: 1.00 - ETA: 1:07 - loss: 0.0049 - accuracy: 1.00 - ETA: 1:07 - loss: 0.0049 - accuracy: 1.00 - ETA: 1:07 - loss: 0.0039 - accuracy: 1.00 - ETA: 1.004 - loss: 0.0039 - accuracy: 1.00 - ETA: 1.004 - loss: 0.0039 - accuracy: 1.004 - loss: 0.0039 - accuracy: 1.004 - loss: 0.0039 - accuracy: 1.004 - loss: 0.003

```
1:07 - loss: 0.0038 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0038 - accuracy: 1.00 - ETA: 1:07 - loss: 0.0037 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0037 - accuracy: 1.00 - ETA: 1:07 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:07 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0036 - accuracy: 1.00 - ETA: 1.00 - loss: 0.0036 - accuracy: 1.00 - ETA: 1.00 - loss: 0.0036 - accuracy: 1.00 - loss: 0.0036 - accu
  1:05 - loss: 0.0036 - accuracy: 1.00 - ETA: 1:08 - loss: 0.0035 - accuracy: 1.00 - ETA: 1:07 - loss: 0.0035 - accuracy: 1.00 - ETA:
  1:06 - loss: 0.0034 - accuracy: 1.00 - ETA: 1:05 - loss: 0.0034 - accuracy: 1.00 - ETA: 1:05 - loss: 0.0034 - accuracy: 1.00 - ETA:
  1:04 - loss: 0.0033 - accuracy: 1.00 - ETA: 1:03 - loss: 0.0033 - accuracy: 1.00 - ETA: 1:05 - loss: 0.0033 - accuracy: 1.00 - ETA:
  1:05 - loss: 0.0032 - accuracy: 1.00 - ETA: 1:04 - loss: 0.0032 - accuracy: 1.00 - ETA: 1:03 - loss: 0.0032 - accuracy: 1.00 - ETA:
  1:03 - loss: 0.0032 - accuracy: 1.00 - ETA: 1:02 - loss: 0.0031 - accuracy: 1.00 - ETA: 1:01 - loss: 0.0031 - accuracy: 1.00 - ETA:
  1:03 - loss: 0.0031 - accuracy: 1.00 - ETA: 1:03 - loss: 0.0031 - accuracy: 1.00 - ETA: 1:02 - loss: 0.0030 - accuracy: 1.00 - ETA:
  1:03 - loss: 0.0030 - accuracy: 1.00 - ETA: 1:02 - loss: 0.0030 - accuracy: 1.00 - ETA: 1:03 - loss: 0.0082 - accuracy: 0.99 - ETA:
  1:05 - loss: 0.0128 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0218 - accuracy: 0.99 - ETA:
  1:08 - loss: 0.0215 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0211 - accuracy: 0.99 - ETA:
   1:08 - loss: 0.0209 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0236 - accuracy: 0.99 - ETA:
   1:07 - loss: 0.0233 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0231 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0229 - accuracy: 0.99 - ETA:
   1:05 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0223 - accuracy: 0.99 - ETA:
   1:03 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0219 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0217 - accuracy: 0.99 - ETA:
   1:02 - loss: 0.0215 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0214 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0212 - accuracy: 0.99 - ETA:
  1:02 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0208 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0206 - accuracy: 0.99 - ETA:
   1:03 - loss: 0.0203 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0201 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0199 - accuracy: 0.99 - ETA:
  1:03 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0193 - accuracy: 0.99 - ETA:
   1:02 - loss: 0.0191 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0189 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0187 - accuracy: 0.99 - ETA:
  1:00 - loss: 0.0185 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0205 - accuracy: 0.99 - ETA:
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75 - loss: 0.0239 - accuracy: 0.997 - ETA: 56s - loss: 0.0237 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0231 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - accuracy: 0.997 - ETA: 55s - loss: 0.0238 - ac
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37 - accuracy: 0.997 - ETA: 52s - loss: 0.0236 - accuracy: 0.997 - ETA: 52s - loss: 0.0234 - accuracy: 0.997 - ETA: 52s - loss: 0.0233
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  - ETA: 45s - loss: 0.0235 - accuracy: 0.997 - ETA: 45s - loss: 0.0234 - accuracy: 0.997 - ETA: 45s - loss: 0.0233 - accuracy: 0.997 -
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43s - loss: 0.0224 - accuracy: 0.997 - ETA: 42s - loss: 0.0223 - accuracy: 0.997 - ETA: 42s - loss: 0.0222 - accuracy: 0.997 - ETA: 42
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35. 0.0218 - accuracy: 0.997 - ETA: 385 - loss: 0.0219 - accuracy: 0.997 - ETA: 385 - loss: 0.0208 - accuracy: 0.997 - ETA: 385 - loss: 0.0216 - accuracy: 0.997 - ETA: 375 - loss: 0.0215 - accuracy: 0.997 - ETA: 375 - loss: 0.0216 - accuracy: 0.997 - ETA: 375 - loss: 0.0216 - accuracy: 0.997 - ETA: 375 - loss: 0.0216 - accuracy: 0.997 - ETA: 375 - loss: 0.0216 - accuracy: 0.997 - ETA: 375 - loss: 0.0217 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy: 0.997 - ETA: 375 - loss: 0.0218 - accuracy:
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22 - accuracy: 0.997 - ETA: 36s - loss: 0.0221 - accuracy: 0.997 - ETA: 35s - loss: 0.0220 - accuracy: 0.997 - ETA: 35s - loss: 0.0219
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 0218 - accuracy: 0.997 - ETA: 21s - loss: 0.0218 - accuracy: 0.997 - ETA: 21s - loss: 0.0217 - accuracy: 0.997 - ETA: 20s - loss: 0.02
16 - accuracy: 0.997 - ETA: 20s - loss: 0.0216 - accuracy: 0.997 - ETA: 20s - loss: 0.0215 - accuracy: 0.997 - ETA: 20s - loss: 0.0215
 - accuracy: 0.997 - ETA: 19s - loss: 0.0214 - accuracy: 0.997 - ETA: 19s - loss: 0.0213 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 19s - loss: 0.0219 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 19s - loss: 0.0218 - accuracy: 0.997 - ETA: 19s - loss: 0.0218 - accuracy: 0.997 - ETA: 19s - loss: 0.0218 - accuracy: 0.997 - ETA: 19s - loss: 0.0218 - accuracy: 0.997 - ETA: 19s - loss: 0.0218 - accuracy: 0.997 - ETA: 19s - loss: 0.0218 - accuracy: 0.997 - ETA: 19s - loss: 0.0218 - accuracy: 0.997 - ETA: 19s - loss: 0.0218 - accuracy: 0.997 - ETA: 19s - loss: 0.0218 - accuracy: 0.997 - ETA: 0
ccuracy: 0.997 - ETA: 18s - loss: 0.0217 - accuracy: 0.997 - ETA: 18s - loss: 0.0217 - accuracy: 0.997 - ETA: 18s - loss: 0.0216 - accuracy: 0.997 - ETA: 18s - loss: 0.0216 - accuracy: 0.997 - ETA: 18s - loss: 0.0216 - accuracy: 0.997 - ETA: 18s - loss: 0.0217 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 
 acy: 0.997 - ETA: 17s - loss: 0.0221 - accuracy: 0.9973WARNING:tensorflow:Method (on_train_batch_end) is slow compared to the batch up
 date (0.163030). Check your callbacks.
16s - loss: 0.0224 - accuracy: 0.997 - ETA: 16s - loss: 0.0223 - accuracy: 0.997 - ETA: 16s - loss: 0.0223 - accuracy: 0.997 - ETA: 15
 s - loss: 0.0222 - accuracy: 0.997 - ETA: 15s - loss: 0.0221 - accuracy: 0.997 - ETA: 15s - loss: 0.0221 - accuracy: 0.997 - ETA: 15s
   - loss: 0.0220 - accuracy: 0.997 - ETA: 14s - loss: 0.0220 - accuracy: 0.997 - ETA: 14s - loss: 0.0219 - accuracy: 0.997 - ETA: 14s -
 loss: 0.0218 - accuracy: 0.997 - ETA: 14s - loss: 0.0218 - accuracy: 0.997 - ETA: 13s - loss: 0.0217 - accuracy: 0.997 - ETA: 13s - lo
ss: 0.0216 - accuracy: 0.997 - ETA: 13s - loss: 0.0216 - accuracy: 0.997 - ETA: 13s - loss: 0.0215 - accuracy: 0.997 - ETA: 13s - los
 s: 0.0215 - accuracy: 0.997 - ETA: 12s - loss: 0.0214 - accuracy: 0.997 - ETA: 12s - loss: 0.0213 - accuracy: 0.997 - ETA: 12s - loss:
 0.0213 - accuracy: 0.997 - ETA: 12s - loss: 0.0212 - accuracy: 0.997 - ETA: 11s - loss: 0.0211 - accuracy: 0.997 - ETA: 11s - loss: 0.
```

0211 - accuracy: 0.997 - ETA: 11s - loss: 0.0210 - accuracy: 0.997 - ETA: 11s - loss: 0.0209 - accuracy: 0.997 - ETA: 10s - loss: 0.0208 - accuracy: 0.997 - ETA: 10s - loss: 0.0208 - accuracy: 0.997 - ETA: 10s - loss: 0.0207 - accuracy: 0.997 - ETA: 10s - loss: 0.0207 - accuracy: 0.997 - ETA: 9s - loss: 0.0206 - accuracy: 0.997 - ETA: 9s - loss: 0.0205 - accuracy: 0.

```
racy: 0.99 - ETA: 9s - loss: 0.0204 - accuracy: 0.99 - ETA: 8s - loss: 0.0204 - accuracy: 0.99 - ETA: 8s - loss: 0.0203 - accuracy: 0.
99 - ETA: 8s - loss: 0.0202 - accuracy: 0.99 - ETA: 8s - loss: 0.0202 - accuracy: 0.99 - ETA: 7s - loss: 0.0201 - accuracy: 0.99 - ETA
A: 7s - loss: 0.0201 - accuracy: 0.99 - ETA: 7s - loss: 0.0200 - accuracy: 0.99 - ETA: 6s - loss: 0.0199 - accuracy: 0.99 - ETA: 6s -
 loss: 0.0199 - accuracy: 0.99 - ETA: 6s - loss: 0.0198 - accuracy: 0.99 - ETA: 6s - loss: 0.0198 - accuracy: 0.99 - ETA: 5s - loss:
 0.0197 - accuracy: 0.99 - ETA: 5s - loss: 0.0196 - accuracy: 0.99 - ETA: 5s - loss: 0.0196 - accuracy: 0.99 - ETA: 5s - loss: 0.0195
 - accuracy: 0.99 - ETA: 4s - loss: 0.0195 - accuracy: 0.99 - ETA: 4s - loss: 0.0194 - accuracy: 0.99 - ETA: 4s - loss: 0.0193 - accur
acy: 0.99 - ETA: 4s - loss: 0.0193 - accuracy: 0.99 - ETA: 3s - loss: 0.0192 - accuracy: 0.99 - ETA: 3s - loss: 0.0192 - accuracy: 0.99
9 - ETA: 3s - loss: 0.0191 - accuracy: 0.99 - ETA: 2s - loss: 0.0199 - accuracy: 0.99 - ETA: 2s - loss: 0.0198 - accuracy: 0.99 - ETA:
2s - loss: 0.0198 - accuracy: 0.99 - ETA: 2s - loss: 0.0197 - accuracy: 0.99 - ETA: 1s - loss: 0.0196 - accuracy: 0.99 - ETA: 1s - los
s: 0.0196 - accuracy: 0.99 - ETA: 1s - loss: 0.0202 - accuracy: 0.99 - ETA: 1s - loss: 0.0202 - accuracy: 0.99 - ETA: 0s - loss: 0.020
1 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0207 - accuracy: 0.99 - ETA: 0s - loss: 0.0206 - accu
racy: 0.99 - 97s 301ms/step - loss: 0.0206 - accuracy: 0.9975 - val_loss: 0.0249 - val_accuracy: 0.9968
Epoch 38/50
  7/322 [.....
                     ......] - ETA: 0s - loss: 0.0060 - accuracy: 1.00 - ETA: 1:04 - loss: 0.0062 - accuracy: 1.00 - ETA:
 1:48 - loss: 0.0061 - accuracy: 1.00 - ETA: 3:41 - loss: 0.0509 - accuracy: 0.99 - ETA: 4:52 - loss: 0.0420 - accuracy: 0.99 - ETA:
 6:06 - loss: 0.0656 - accuracy: 0.98 - ETA: 5:44 - loss: 0.0575 - accuracy: 0.9911WARNING:tensorflow:Method (on train batch end) is s
low compared to the batch update (0.381095). Check your callbacks.
  8/322 [.....] - ETA: 5:29 - loss: 0.0515 - accuracy: 0.9922WARNING:tensorflow:Method (on train batch end) i
s slow compared to the batch update (0.369594). Check your callbacks.
slow compared to the batch update (0.415604). Check your callbacks.
16/322 [>......] - ETA: 5:20 - loss: 0.0355 - accuracy: 0.99 - ETA: 5:17 - loss: 0.0337 - accuracy: 0.99 - ET A: 5:22 - loss: 0.0320 - accuracy: 0.99 - ETA: 5:13 - loss: 0.0306 - accuracy: 0.9961WARNING:tensorflow:Method (on_train_batch_end) is
slow compared to the batch update (0.353590). Check your callbacks.
 17/322 [>.....] - ETA: 4:56 - loss: 0.0293 - accuracy: 0.9963WARNING:tensorflow:Method (on_train_batch_end) i
s slow compared to the batch update (0.353590). Check your callbacks.
 18/322 [>.....] - ETA: 4:43 - loss: 0.0281 - accuracy: 0.9965WARNING:tensorflow:Method (on_train_batch_end) i
s slow compared to the batch update (0.287577). Check your callbacks.
 19/322 [>.....] - ETA: 4:32 - loss: 0.0351 - accuracy: 0.9951WARNING:tensorflow:Method (on_train_batch_end) i
s slow compared to the batch update (0.287577). Check your callbacks.
 20/322 [>.....] - ETA: 4:22 - loss: 0.0337 - accuracy: 0.9953WARNING:tensorflow:Method (on_train_batch_end) i
s slow compared to the batch update (0.300090). Check your callbacks.
206/322 [=========>:......] - ETA: 4:16 - loss: 0.0325 - accuracy: 0.99 - ETA: 4:06 - loss: 0.0314 - accuracy: 0.99 - ET
A: 3:58 - loss: 0.0304 - accuracy: 0.99 - ETA: 3:51 - loss: 0.0294 - accuracy: 0.99 - ETA: 3:46 - loss: 0.0285 - accuracy: 0.99 - ETA:
3:42 - loss: 0.0277 - accuracy: 0.99 - ETA: 3:36 - loss: 0.0327 - accuracy: 0.99 - ETA: 3:32 - loss: 0.0317 - accuracy: 0.99 - ETA: 3:
28 - loss: 0.0308 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0300 - accuracy: 0.99 - ETA: 3:20 - loss: 0.0292 - accuracy: 0.99 - ETA: 3:18
- loss: 0.0285 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0278 - accuracy: 0.99 - ETA: 3:19 - loss: 0.0271 - accuracy: 0.99 - ETA: 3:19 -
 loss: 0.0265 - accuracy: 0.99 - ETA: 3:18 - loss: 0.0259 - accuracy: 0.99 - ETA: 3:18 - loss: 0.0253 - accuracy: 0.99 - ETA: 3:16 - 1
oss: 0.0248 - accuracy: 0.99 - ETA: 3:15 - loss: 0.0243 - accuracy: 0.99 - ETA: 3:13 - loss: 0.0285 - accuracy: 0.99 - ETA: 3:13 - los
s: 0.0279 - accuracy: 0.99 - ETA: 3:10 - loss: 0.0273 - accuracy: 0.99 - ETA: 3:08 - loss: 0.0268 - accuracy: 0.99 - ETA: 3:06 - loss:
0.0263 - accuracy: 0.99 - ETA: 3:05 - loss: 0.0258 - accuracy: 0.99 - ETA: 3:04 - loss: 0.0292 - accuracy: 0.99 - ETA: 3:03 - loss: 0.
0287 - accuracy: 0.99 - ETA: 3:02 - loss: 0.0318 - accuracy: 0.99 - ETA: 3:00 - loss: 0.0313 - accuracy: 0.99 - ETA: 2:58 - loss: 0.03
09 - accuracy: 0.99 - ETA: 2:56 - loss: 0.0304 - accuracy: 0.99 - ETA: 2:53 - loss: 0.0300 - accuracy: 0.99 - ETA: 2:52 - loss: 0.0296
- accuracy: 0.99 - ETA: 2:50 - loss: 0.0229 - accuracy: 0.99 - ETA: 2:48 - loss: 0.0288 - accuracy: 0.99 - ETA: 2:46 - loss: 0.0280 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0280 - accuracy: 0.99 - ETA: 2:40 - loss: 0.0273 - a
ccuracy: 0.99 - ETA: 2:37 - loss: 0.0269 - accuracy: 0.99 - ETA: 2:35 - loss: 0.0265 - accuracy: 0.99 - ETA: 2:34 - loss: 0.0262 - acc
uracy: 0.99 - ETA: 2:32 - loss: 0.0259 - accuracy: 0.99 - ETA: 2:30 - loss: 0.0255 - accuracy: 0.99 - ETA: 2:28 - loss: 0.0252 - accur
acy: 0.99 - ETA: 2:27 - loss: 0.0249 - accuracy: 0.99 - ETA: 2:25 - loss: 0.0246 - accuracy: 0.99 - ETA: 2:24 - loss: 0.0243 - accurac
y: 0.99 - ETA: 2:23 - loss: 0.0240 - accuracy: 0.99 - ETA: 2:21 - loss: 0.0237 - accuracy: 0.99 - ETA: 2:21 - loss: 0.0234 - accuracy:
0.99 - ETA: 2:19 - loss: 0.0231 - accuracy: 0.99 - ETA: 2:18 - loss: 0.0229 - accuracy: 0.99 - ETA: 2:17 - loss: 0.0226 - accuracy: 0.
99 - ETA: 2:15 - loss: 0.0223 - accuracy: 0.99 - ETA: 2:15 - loss: 0.0221 - accuracy: 0.99 - ETA: 2:13 - loss: 0.0218 - accuracy: 0.99
- ETA: 2:12 - loss: 0.0216 - accuracy: 0.99 - ETA: 2:10 - loss: 0.0214 - accuracy: 0.99 - ETA: 2:09 - loss: 0.0211 - accuracy: 0.99 - ETA: 2:08 - loss: 0.0209 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0207 - accuracy: 0.99 - ETA: 2:06 - loss: 0.0204 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0207 - accuracy: 0.99 - ETA: 2:08 - loss: 0.0209 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0207 - accuracy: 0.99 - ETA: 2:08 - loss: 0.0209 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0207 - accuracy: 0.99 - ETA: 2:08 - loss: 0.0209 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0207 - accuracy: 0.99 - ETA: 2:08 - loss: 0.0209 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0207 - accuracy: 0.99 - ETA: 2:08 - loss: 0.0209 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0207 - accuracy: 0.99 - ETA: 2:08 - loss: 0.0209 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0207 - accuracy: 0.99 - ETA: 2:08 - loss: 0.0208 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0207 - accuracy: 0.99 - ETA: 2:08 - loss: 0.0208 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0207 - accuracy: 0.99 - ETA: 2:08 - loss: 0.0208 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0208 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0208 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0208 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0208 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0208 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0208 - accuracy: 0.99 - ETA: 2:08 - accuracy: 0.99 - accuracy: 0.99 - accuracy: 0.99 - accuracy: 0.99 - accura
TA: 2:05 - loss: 0.0202 - accuracy: 0.99 - ETA: 2:05 - loss: 0.0200 - accuracy: 0.99 - ETA: 2:05 - loss: 0.0198 - accuracy: 0.99 - ET
A: 2:04 - loss: 0.0196 - accuracy: 0.99 - ETA: 2:04 - loss: 0.0194 - accuracy: 0.99 - ETA: 2:04 - loss: 0.0192 - accuracy: 0.99 - ETA:
2:05 - loss: 0.0216 - accuracy: 0.99 - ETA: 2:04 - loss: 0.0214 - accuracy: 0.99 - ETA: 2:03 - loss: 0.0212 - accuracy: 0.99 - ETA: 2:
03 - loss: 0.0210 - accuracy: 0.99 - ETA: 2:02 - loss: 0.0208 - accuracy: 0.99 - ETA: 2:01 - loss: 0.0206 - accuracy: 0.99 - ETA: 2:01
- loss: 0.0205 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0203 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0201 - accuracy: 0.99 - ETA: 1:59 -
 loss: 0.0199 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0219 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:57 - 1
oss: 0.0215 - accuracy: 0.99 - ETA: 1:56 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:56 - loss: 0.0230 - accuracy: 0.99 - ETA: 1:56 - loss
s: 0.0229 - accuracy: 0.99 - ETA: 1:55 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:54 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:53 - loss:
0.0224 - accuracy: 0.99 - ETA: 1:52 - loss: 0.0222 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:50 - loss: 0.
0219 - accuracy: 0.99 - ETA: 1:48 - loss: 0.0218 - accuracy: 0.99 - ETA: 1:48 - loss: 0.0216 - accuracy: 0.99 - ETA: 1:47 - loss: 0.02
31 - accuracy: 0.99 - ETA: 1:46 - loss: 0.0229 - accuracy: 0.99 - ETA: 1:45 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:44 - loss: 0.0226
- accuracy: 0.99 - ETA: 1:44 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:43 - loss: 0.0223 - accuracy: 0.99 - ETA: 1:43 - loss: 0.0222 -
 accuracy: 0.99 - ETA: 1:42 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:41 - loss: 0.0219 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0218 - a
ccuracy: 0.99 - ETA: 1:39 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:38 - loss: 0.0215 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0214 - acc
uracy: 0.99 - ETA: 1:36 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0211 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0210 - accur
acy: 0.99 - ETA: 1:34 - loss: 0.0209 - accuracy: 0.99 - ETA: 1:33 - loss: 0.0208 - accuracy: 0.99 - ETA: 1:32 - loss: 0.0206 - accuracy
y: 0.99 - ETA: 1:32 - loss: 0.0219 - accuracy: 0.99 - ETA: 1:31 - loss: 0.0218 - accuracy: 0.99 - ETA: 1:30 - loss: 0.0231 - accuracy:
ó.99 - ETA: 1:30 - loss: 0.0229 - accuracy: ó.99 - ETA: 1:29 - loss: 0.0228 - accuracy: ó.99 - ETA: 1:29 - loss: 0.0227 - accuracy: ó.
99 - ETA: 1:28 - loss: 0.0226 - accuracy: 0.99 - ETA: 1:27 - loss: 0.0237 - accuracy: 0.99 - ETA: 1:27 - loss: 0.0236 - accuracy: 0.99
FTA: 1:26 - loss: 0.0234 - accuracy: 0.99 - ETA: 1:26 - loss: 0.0233 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0232 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0231 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0231 - accuracy: 0.99 - ETA: 1:23 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:22 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:22 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:20 - loss: 0.02
1:19 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0220 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0219 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0218 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0216 - accuracy: 0.99 - ETA: 1:16
- loss: 0.0215 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0214 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0212 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0223 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:12 - l
oss: 0.0220 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0219 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0218 - accuracy: 0.99 - ETA: 1:10 - los
s: 0.0217 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0216 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0215 - accuracy: 0.99 - ETA: 1:08 - loss:
0.0214 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0212 - accuracy: 0.99 - ETA: 1:06 - loss: 0.
0211 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0222 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0232 - accuracy: 0.99 - ETA: 1:05 - loss: 0.02
31 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0230 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0229 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0228
- accuracy: 0.99 - ETA: 1:03 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0226 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0225 -
 accuracy: 0.99 - ETA: 1:01 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0224 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0223 - a
ccuracy: 0.99 - ETA: 1:00 - loss: 0.0222 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0221 - accuracy: 0.99 - ETA: 59s - loss: 0.0220 - accu
racy: 0.9972 - ETA: 59s - loss: 0.0219 - accuracy: 0.997 - ETA: 58s - loss: 0.0218 - accuracy: 0.997 - ETA: 57s - loss: 0.0217 - accur
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acy: 0.997 - ETA: 57s - loss: 0.0217 - accuracy: 0.997 - ETA: 56s - loss: 0.0216 - accuracy: 0.997 - ETA: 56s - loss: 0.0215 - accurac

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0.997 - ETA: 53s - loss: 0.0211 - accuracy: 0.997 - ETA: 53s - loss: 0.0210 - accuracy: 0.997 - ETA: 52s - loss: 0.0219 - accuracy: 0.
997 - ETA: 52s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0217 - accuracy: 0.997 - ETA: 50s - loss: 0.0216 - accuracy: 0.99
TA: 49s - loss: 0.0214 - accuracy: 0.997 - ETA: 48s - loss: 0.0213 - accuracy: 0.997 - ETA: 48s - loss: 0.0227 - accuracy: 0.997 - ETA: 47s - loss: 0.0220 - accuracy: 0.997 - ETA: 47s - loss: 0.0220 - accuracy: 0.997 - ETA: 47s - loss: 0.0227 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0227 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 48s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228 - accuracy: 0.997 - ETA: 47s - loss: 0.0228
46s - loss: 0.0227 - accuracy: 0.997 - ETA: 45s - loss: 0.0226 - accuracy: 0.997 - ETA: 45s - loss: 0.0225 - accuracy: 0.997 - ETA: 45
 s - loss: 0.0224 - accuracy: 0.997 - ETA: 43s - loss: 0.0224 - accuracy: 0.997 - ETA: 43s - loss: 0.0223 - accuracy: 0.997 - ETA: 42s
   - loss: 0.0222 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 41s - loss: 0.0221 - accuracy: 0.997 - ETA: 41s -
 loss: 0.0220 - accuracy: 0.997 - ETA: 40s - loss: 0.0219 - accuracy: 0.997 - ETA: 40s - loss: 0.0226 - accuracy: 0.997 - ETA: 39s - lo
 ss: 0.0225 - accuracy: 0.997 - ETA: 39s - loss: 0.0225 - accuracy: 0.997 - ETA: 38s - loss: 0.0224 - accuracy: 0.997 - ETA: 38s - los
 s: 0.0223 - accuracy: 0.997 - ETA: 37s - loss: 0.0223 - accuracy: 0.997 - ETA: 37s - loss: 0.0222 - accuracy: 0.997 - ETA: 36s - loss:
 0.0228 - accuracy: 0.997 - ETA: 36s - loss: 0.0228 - accuracy: 0.997 - ETA: 36s - loss: 0.0227 - accuracy: 0.997 - ETA: 35s - loss: 0.
0226 - accuracy: 0.997 - ETA: 35s - loss: 0.0225 - accuracy: 0.997 - ETA: 34s - loss: 0.0225 - accuracy: 0.997 - ETA: 34s - loss: 0.02
 24 - accuracy: 0.997 - ETA: 33s - loss: 0.0223 - accuracy: 0.997 - ETA: 33s - loss: 0.0223 - accuracy: 0.997 - ETA: 33s - loss: 0.0222
 - accuracy: 0.997 - ETA: 32s - loss: 0.0221 - accuracy: 0.997 - ETA: 32s - loss: 0.0221 - accuracy: 0.997 - ETA: 31s - loss: 0.0220 -
  accuracy: 0.997 - ETA: 31s - loss: 0.0226 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - ETA: 30s - loss: 0.0225 - accuracy: 0.997 - accuracy: 0.
 ccuracy: 0.997 - ETA: 30s - loss: 0.0224 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 29s - loss: 0.0223 - accuracy: 0.997 - ETA: 
uracy: 0.997 - ETA: 28s - loss: 0.0222 - accuracy: 0.997 - ETA: 28s - loss: 0.0221 - accuracy: 0.997 - ETA: 27s - loss: 0.0220 - accur
acy: 0.997 - ETA: 27s - loss: 0.0220 - accuracy: 0.997 - ETA: 26s - loss: 0.0219 - accuracy: 0.997 - ETA: 26s - loss: 0.0218 - accuracy
y: 0.997 - ETA: 25s - loss: 0.0218 - accuracy: 0.997 - ETA: 25s - loss: 0.0217 - accuracy: 0.997 - ETA: 24s - loss: 0.0216 - accuracy:
 0.997 - ETA: 24s - loss: 0.0216 - accuracy: 0.997 - ETA: 24s - loss: 0.0215 - accuracy: 0.997 - ETA: 23s - loss: 0.0214 - accuracy: 0.
997 - ETA: 23s - loss: 0.0213 - accuracy: 0.997 - ETA: 22s - loss: 0.0213 - accuracy: 0.99
7 - ETA: 22s - loss: 0.0211 - accuracy: 0.997 - ETA: 21s - loss: 0.0211 - accuracy: 0.997 - ETA: 21s - loss: 0.0210 - accuracy: 0.997 - ETA: 21s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0
ETA: 19s - loss: 0.0207 - accuracy: 0.997 - ETA: 19s - loss: 0.0207 - accuracy: 0.997 - ETA: 19s - loss: 0.0206 - accuracy: 0.997 - ETA
A: 18s - loss: 0.0205 - accuracy: 0.997 - ETA: 18s - loss: 0.0205 - accuracy: 0.997 - ETA: 18s - loss: 0.0204 - accuracy: 0.997 - ETA:
17s - loss: 0.0203 - accuracy: 0.997 - ETA: 17s - loss: 0.0203 - accuracy: 0.997 - ETA: 16s - loss: 0.0202 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 15s - loss: 0.0200 - accuracy: 0.997 - ETA: 15s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0200 - a
loss: 0.0198 - accuracy: 0.997 - ETA: 13s - loss: 0.0197 - accuracy: 0.997 - ETA: 13s - loss: 0.0196 - accuracy: 0.997 - ETA: 12s - lo
ss: 0.0196 - accuracy: 0.997 - ETA: 12s - loss: 0.0195 - accuracy: 0.997 - ETA: 12s - loss: 0.0195 - accuracy: 0.997 - ETA: 11s - loss: 0.0194 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 10s - loss: 0.0193 - accuracy: 0.9976WARNING:tensorflo
 w:Method (on_train_batch_end) is slow compared to the batch update (0.145535). Check your callbacks.
 A: 9s - loss: 0.0199 - accuracy: 0.997 - ETA: 9s - loss: 0.0198 - accuracy: 0.99 - ETA: 8s - loss: 0.0198 - accuracy: 0.99 - ETA: 8s -
loss: 0.0197 - accuracy: 0.99 - ETA: 8s - loss: 0.0197 - accuracy: 0.99 - ETA: 7s - loss: 0.0196 - accuracy: 0.99 - ETA: 7s - loss: 0.
 0196 - accuracy: 0.99 - ETA: 6s - loss: 0.0195 - accuracy: 0.99 - ETA: 6s - loss: 0.0195 - accuracy: 0.99 - ETA: 6s - loss: 0.0194 - a
 ccuracy: 0.99 - ETA: 5s - loss: 0.0193 - accuracy: 0.99 - ETA: 5s - loss: 0.0193 - accuracy: 0.99 - ETA: 4s - loss: 0.0192 - accuracy:
 0.99 - ETA: 4s - loss: 0.0199 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 3s - loss: 0.0198 - accuracy: 0.99 - E
TA: 3s - loss: 0.0197 - accuracy: 0.99 - ETA: 2s - loss: 0.0197 - accuracy: 0.99 - ETA: 2s - loss: 0.0196 - accuracy: 0.99 - ETA: 2s - loss: 0.0202 - accuracy: 0.99 - ETA: 0s - loss: 0.0202 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0.0200 - accuracy: 0.99 - ETA: 0.0200 - accuracy: 0.99 - ETA: 0.0200
0200 - accuracy: 0.9975 - val_loss: 0.0231 - val_accuracy: 0.9968
Epoch 39/50
186/322 [=========>.......] - ETA: 0s - loss: 0.0047 - accuracy: 1.00 - ETA: 32s - loss: 0.0048 - accuracy: 1.000 - ETA:
37s - loss: 0.0048 - accuracy: 1.000 - ETA: 38s - loss: 0.0047 - accuracy: 1.000 - ETA: 39s - loss: 0.0048 - accuracy: 1.000 - ETA: 39s - loss: 0.0047 - accuracy: 1.000 - ETA: 39s - loss: 0.0046 - accuracy: 1.000 - ETA: 52s
 - loss: 0.0046 - accuracy: 1.000 - ETA: 53s - loss: 0.0225 - accuracy: 0.996 - ETA: 52s - loss: 0.0208 - accuracy: 0.997 - ETA: 51s - loss: 0.0184 - accuracy: 0.997 - ETA: 51s - loss: 0.0185 - accuracy: 0.997 - ETA: 51s - loss: 0.0184 - accuracy: 0.997 - ETA: 55s - loss: 0.0175 - accuracy: 0.997 - ETA: 1:00 -
  loss: 0.0287 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0273 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0361 - accuracy: 0.99 - ETA: 1:07 - l
oss: 0.0345 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0332 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0320 - accuracy: 0.99 - ETA: 1:08 - los
 s: 0.0309 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0299 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0290 - accuracy: 0.99 - ETA: 1:05 - loss:
0.0281 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0273 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0327 - accuracy: 0.99 - ETA: 1:06 - loss: 0.
0318 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0309 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0301 - accuracy: 0.99 - ETA: 1:04 - loss: 0.02
94 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0287 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0280 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0274
 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0262 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0256 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0250 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0240 - a
 ccuracy: 0.99 - ETA: 1:13 - loss: 0.0235 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0230 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0273 - acc
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 - ETA: 1:14 - loss: 0.0208 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0202 - accuracy: 0.99 -
  ETA: 1:12 - loss: 0.0200 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1.90 - loss: 0.0194 - accuracy: 0.99 - ETA: 0.99 - loss: 0
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  - ETA: 47s - loss: 0.0149 - accuracy: 0.998 - ETA: 48s - loss: 0.0148 - accuracy: 0.998 - ETA: 48s - loss: 0.0163 - accuracy: 0.998 -
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 A: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0159 - accuracy: 0.998 - ETA: 49s - loss: 0.0158 - accuracy: 0.998 - ETA:
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y: 0.997 - ETA: 55s - loss: 0.0214 - accuracy: 0.997 - ETA: 54s - loss: 0.0213 - accuracy: 0.997 - ETA: 54s - loss: 0.0212 - accuracy:

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ss: 0.0173 - accuracy: 0.997 - ETA: 46s - loss: 0.0172 - accuracy: 0.997 - ETA: 46s - loss: 0.0171 - accuracy: 0.997 - ETA: 46s - loss: 0.0170 - accuracy: 0.997 - ETA: 46s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy: 0.997 - ETA: 45s - loss: 0.0170 - accuracy:
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s: 0.0160 - accuracy: 0.998 - ETA: 33s - loss: 0.0159 - accuracy: 0.998 - ETA: 33s - loss: 0.0158 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0158 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 0.998 - ETA: 32s - loss: 0.0157 - accuracy: 
 0156 - accuracy: 0.998 - ETA: 32s - loss: 0.0155 - accuracy: 0.998 - ETA: 31s - loss: 0.0155 - accuracy: 0.998 - ETA: 31s - loss: 0.01
64 - accuracy: 0.998 - ETA: 31s - loss: 0.0163 - accuracy: 0.998 - ETA: 31s - loss: 0.0163 - accuracy: 0.998 - ETA: 30s - loss: 0.0162
 - accuracy: 0.998 - ETA: 30s - loss: 0.0162 - accuracy: 0.998 - ETA: 30s - loss: 0.0161 - accuracy: 0.998 - ETA: 30s - loss: 0.0160 - accuracy: 0.998 - ETA: 29s - loss: 0.0160 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ETA: 29s - loss: 0.0159 - accuracy: 0.998 - ET
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 0.998 - ETA: 27s - loss: 0.0161 - accuracy: 0.998 - ETA: 26s - loss: 0.0169 - accuracy: 0.997 - ETA: 26s - loss: 0.0168 - accuracy: 0.
997 - ETA: 26s - loss: 0.0168 - accuracy: 0.997 - ETA: 26s - loss: 0.0167 - accuracy: 0.998 - ETA: 25s - loss: 0.0167 - accuracy: 0.99
 8 - ETA: 25s - loss: 0.0173 - accuracy: 0.997 - ETA: 25s - loss: 0.0173 - accuracy: 0.997 - ETA: 25s - loss: 0.0173 - accuracy: 0.997
  - ETA: 25s - loss: 0.0172 - accuracy: 0.997 - ETA: 24s - loss: 0.0172 - accuracy: 0.997 - ETA: 24s - loss: 0.0178 - accuracy: 0.997 -
ETA: 24s - loss: 0.0178 - accuracy: 0.997 - ETA: 24s - loss: 0.0177 - accuracy: 0.997 - ETA: 24s - loss: 0.0177 - accuracy: 0.997 - ETA
 A: 23s - loss: 0.0189 - accuracy: 0.997 - ETA: 23s - loss: 0.0189 - accuracy: 0.997 - ETA: 23s - loss: 0.0189 - accuracy: 0.997 - ETA:
22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.0188 - accuracy: 0.997 - ETA: 22s - loss: 0.997
 s - loss: 0.0188 - accuracy: 0.997 - ETA: 21s - loss: 0.0188 - accuracy: 0.997 - ETA: 21s - loss: 0.0193 - accuracy: 0.997 - ETA: 21s
  - loss: 0.0193 - accuracy: 0.997 - ETA: 20s - loss: 0.0192 - accuracy: 0.997 - ETA: 20s - loss: 0.0192 - accuracy: 0.997 - ETA: 20s -
 loss: 0.0192 - accuracy: 0.997 - ETA: 20s - loss: 0.0197 - accuracy: 0.997 - ETA: 19s - loss: 0.0197 - accuracy: 0.997 - ETA: 19s - lo
ss: 0.0196 - accuracy: 0.997 - ETA: 19s - loss: 0.0196 - accuracy: 0.997 - ETA: 18s - loss: 0.0195 - accuracy: 0.997 - ETA: 18s - loss
 s: 0.0195 - accuracy: 0.997 - ETA: 18s - loss: 0.0195 - accuracy: 0.997 - ETA: 17s - loss: 0.0194 - accuracy: 0.997 - ETA: 17s - loss:
0.0194 - accuracy: 0.997 - ETA: 17s - loss: 0.0193 - accuracy: 0.997 - ETA: 16s - loss: 0.0193 - accuracy: 0.997 - ETA: 16s - loss: 0.
0192 - accuracy: 0.997 - ETA: 15s - loss: 0.0192 - accuracy: 0.997 - ETA: 15s - loss: 0.0191 - accuracy: 0.997 - ETA: 15s - loss: 0.0190 - accuracy: 0.997 - ETA: 15s - loss: 0.0190 - accuracy: 0.997 - ETA: 15s - loss: 0.0196
 - accuracy: 0.997 - ETA: 13s - loss: 0.0196 - accuracy: 0.997 - ETA: 13s - loss: 0.0195 - accuracy: 0.997 - ETA: 12s - loss: 0.0194 - accuracy: 0.997 - ETA: 12s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 11s - loss: 0.0193 - accuracy: 0.997 - ETA: 0.997 - ETA: 0.997 - ETA: 0.997 - ETA: 0.
ccuracy: 0.997 - ETA: 11s - loss: 0.0199 - accuracy: 0.997 - ETA: 10s - loss: 0.0205 - accuracy: 0.997 - ETA: 10s - loss: 0.0204 - acc
uracy: 0.997 - ETA: 10s - loss: 0.0204 - accuracy: 0.997 - ETA: 9s - loss: 0.0203 - accuracy: 0.997 - ETA: 9s - loss: 0.0209 - accuracy
y: 0.99 - ETA: 9s - loss: 0.0208 - accuracy: 0.99 - ETA: 8s - loss: 0.0208 - accuracy: 0.99 - ETA: 8s - loss: 0.0208 - accuracy: 0.99
    - ETA: 7s - loss: 0.0207 - accuracy: 0.99 - ETA: 7s - loss: 0.0207 - accuracy: 0.99 - ETA: 7s - loss: 0.0207 - accuracy: 0.99 - ETA:
  6s - loss: 0.0206 - accuracy: 0.99 - ETA: 6s - loss: 0.0206 - accuracy: 0.99 - ETA: 6s - loss: 0.0205 - accuracy: 0.99 - ETA: 5s - lo
 ss: 0.0205 - accuracy: 0.99 - ETA: 5s - loss: 0.0204 - accuracy: 0.99 - ETA: 4s - loss: 0.0204 - accuracy: 0.99 - ETA: 4s - loss: 0.02
 04 - accuracy: 0.99 - ETA: 4s - loss: 0.0203 - accuracy: 0.99 - ETA: 3s - loss: 0.0203 - accuracy: 0.99 - ETA: 3s - loss: 0.0202 - acc
uracy: 0.99 - ETA: 3s - loss: 0.0202 - accuracy: 0.99 - ETA: 2s - loss: 0.0201 - accuracy: 0.99 - ETA: 2s - loss: 0.0201 - accuracy:
  0.99 - ETA: 1s - loss: 0.0200 - accuracy: 0.99 - ETA: 1s - loss: 0.0200 - accuracy: 0.99 - ETA: 1s - loss: 0.0199 - accuracy: 0.99 -
  ETA: 0s - loss: 0.0199 - accuracy: 0.99 - ETA: 0s - loss: 0.0198 - accuracy: 0.99 - ETA: 0s - loss: 0.0198 - accuracy: 0.99 - 133s 41
 3ms/step - loss: 0.0198 - accuracy: 0.9975 - val_loss: 0.0233 - val_accuracy: 0.9968
  18/322 [>......] - ETA: 0s - loss: 0.0030 - accuracy: 1.00 - ETA: 1:03 - loss: 0.0030 - accuracy: 1.00 - ETA:
   1:11 - loss: 0.0030 - accuracy: 1.00 - ETA: 1:16 - loss: 0.0029 - accuracy: 1.00 - ETA: 1:20 - loss: 0.0029 - accuracy: 1.00 - ETA:
  1:33 - loss: 0.0028 - accuracy: 1.00 - ETA: 1:52 - loss: 0.0028 - accuracy: 1.00 - ETA: 3:01 - loss: 0.0028 - accuracy: 1.00 - ETA:
   3:31 - loss: 0.0027 - accuracy: 1.00 - ETA: 3:40 - loss: 0.0027 - accuracy: 1.00 - ETA: 3:33 - loss: 0.0027 - accuracy: 1.00 - ETA:
  3:39 - loss: 0.0026 - accuracy: 1.00 - ETA: 3:37 - loss: 0.0194 - accuracy: 0.99 - ETA: 3:32 - loss: 0.0182 - accuracy: 0.99 - ETA: 3:38 - loss: 0.0172 - accuracy: 0.99 - ETA: 3:45 - loss: 0.0163 - accuracy: 0.99 - ETA: 3:54 - loss: 0.0156 - accuracy: 0.99 - ETA: 3:49 - loss: 0.0265 - accuracy: 0.9965WARNING:tensorflow:Method (on_train_batch_end) is slow compared to the batch update (0.284072).
 Check your callbacks.
   20/322 [>.....] - ETA: 3:43 - loss: 0.0359 - accuracy: 0.99 - ETA: 3:38 - loss: 0.0344 - accuracy: 0.9953WARN
 ING:tensorflow:Method (on_train_batch_end) is slow compared to the batch update (0.271566). Check your callbacks.
 206/322 [=========>............] - ETA: 3:33 - loss: 0.0332 - accuracy: 0.99 - ETA: 3:30 - loss: 0.0401 - accuracy: 0.99 - ET
 A: 3:27 - loss: 0.0390 - accuracy: 0.99 - ETA: 3:25 - loss: 0.0381 - accuracy: 0.99 - ETA: 3:22 - loss: 0.0371 - accuracy: 0.99 - ETA:
3:17 - loss: 0.0362 - accuracy: 0.99 - ETA: 3:11 - loss: 0.0353 - accuracy: 0.99 - ETA: 3:08 - loss: 0.0344 - accuracy: 0.99 - ETA: 3:05 - loss: 0.0336 - accuracy: 0.99 - ETA: 3:03 - loss: 0.0328 - accuracy: 0.99 - ETA: 3:01 - loss: 0.0320 - accuracy: 0.99 - ETA: 2:57
 - loss: 0.0313 - accuracy: 0.99 - ETA: 2:54 - loss: 0.0306 - accuracy: 0.99 - ETA: 2:53 - loss: 0.0350 - accuracy: 0.99 - ETA: 2:51 -
  loss: 0.0342 - accuracy: 0.99 - ETA: 2:48 - loss: 0.0335 - accuracy: 0.99 - ETA: 2:45 - loss: 0.0328 - accuracy: 0.99 - ETA: 2:43 - 1
 oss: 0.0322 - accuracy: 0.99 - ETA: 2:41 - loss: 0.0316 - accuracy: 0.99 - ETA: 2:39 - loss: 0.0310 - accuracy: 0.99 - ETA: 2:37 - los
 s: 0.0304 - accuracy: 0.99 - ETA: 2:34 - loss: 0.0299 - accuracy: 0.99 - ETA: 2:32 - loss: 0.0293 - accuracy: 0.99 - ETA: 2:31 - loss:
0.0288 - accuracy: 0.99 - ETA: 2:29 - loss: 0.0283 - accuracy: 0.99 - ETA: 2:26 - loss: 0.0278 - accuracy: 0.99 - ETA: 2:24 - loss: 0.
 0273 - accuracy: 0.99 - ETA: 2:22 - loss: 0.0269 - accuracy: 0.99 - ETA: 2:20 - loss: 0.0264 - accuracy: 0.99 - ETA: 2:20 - loss: 0.02
 60 - accuracy: 0.99 - ETA: 2:18 - loss: 0.0256 - accuracy: 0.99 - ETA: 2:16 - loss: 0.0251 - accuracy: 0.99 - ETA: 2:14 - loss: 0.0247
 - accuracy: 0.99 - ETA: 2:13 - loss: 0.0243 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0240 - accuracy: 0.99 - ETA: 2:10 - loss: 0.0236 -
  accuracy: 0.99 - ETA: 2:09 - loss: 0.0232 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0229 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0225 - a
 ccuracy: 0.99 - ETA: 2:06 - loss: 0.0222 - accuracy: 0.99 - ETA: 2:05 - loss: 0.0219 - accuracy: 0.99 - ETA: 2:04 - loss: 0.0216 - acc
 uracy: 0.99 - ETA: 2:03 - loss: 0.0213 - accuracy: 0.99 - ETA: 2:03 - loss: 0.0210 - accuracy: 0.99 - ETA: 2:02 - loss: 0.0207 - accur
acy: 0.99 - ETA: 2:01 - loss: 0.0204 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0202 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0199 - accuracy
y: 0.99 - ETA: 1:59 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:56 - loss: 0.0222 - accuracy:
99 - ETA: 1:55 - loss: 0.0220 - accuracy: 0.99 - ETA: 1:56 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:55 - loss: 0.0214 - accuracy: 0.99 - ETA: 1:57 - loss: 0.0214 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0216 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0217 - accuracy: 0.99 - ETA: 0.0217 - accuracy: 0.99 - ETA: 0.0217 - accuracy: 0.99 -
```

- loss: 0.0165 - accuracy: 0.998 - ETA: 47s - loss: 0.0165 - accuracy: 0.998 - ETA: 47s - loss: 0.0164 - accuracy: 0.998 - ETA: 47s - loss: 0.0163 - accuracy: 0.998 - ETA: 47s - loss: 0.0162 - accuracy: 0.998 - ETA: 46s - lo

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- ETA: 1:52 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0203 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0201 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0199 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.
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11 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0224 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0233 - accuracy: 0.99 - ETA: 1:09
- loss: 0.0232 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0231 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0230 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0239 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0238 - accuracy: 0.99 - ETA: 1:06 - l
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26 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0224 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0223
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43. - loss: 0.0216 - accuracy: 0.997 - ETA: 44s - loss: 0.0215 - accuracy: 0.997 - ETA: 44s - loss: 0.0223 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - accuracy: 0.997 - ETA: 42s - loss: 0.0221 - a
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0223 - accuracy: 0.997 - ETA: 33s - loss: 0.0222 - accuracy: 0.997 - ETA: 32s - loss: 0.0222 - accuracy: 0.997 - ETA: 32s - loss: 0.02
21 - accuracy: 0.997 - ETA: 31s - loss: 0.0220 - accuracy: 0.997 - ETA: 31s - loss: 0.0220 - accuracy: 0.997 - ETA: 31s - loss: 0.0219
- accuracy: 0.997 - ETA: 30s - loss: 0.0218 - accuracy: 0.997 - ETA: 30s - loss: 0.0218 - accuracy: 0.997 - ETA: 29s - loss: 0.0217 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 28s - loss: 0.0216 - accuracy: 0.997 - ETA: 28s - loss: 0.0215 - a
ccuracy: 0.997 - ETA: 28s - loss: 0.0214 - accuracy: 0.997 - ETA: 28s - loss: 0.0214 - accuracy: 0.997 - ETA: 27s - loss: 0.0213 - acc
uracy: 0.997 - ETA: 27s - loss: 0.0212 - accuracy: 0.997 - ETA: 26s - loss: 0.0212 - accuracy: 0.997 - ETA: 26s - loss: 0.0211 - accur
acy: 0.997 - ETA: 26s - loss: 0.0210 - accuracy: 0.997 - ETA: 25s - loss: 0.0210 - accuracy: 0.997 - ETA: 25s - loss: 0.0209 - accurac
y: 0.997 - ETA: 24s - loss: 0.0216 - accuracy: 0.997 - ETA: 24s - loss: 0.0215 - accuracy: 0.997 - ETA: 24s - loss: 0.0215 - accuracy:
0.997 - ETA: 23s - loss: 0.0214 - accuracy: 0.997 - ETA: 23s - loss: 0.0213 - accuracy: 0.997 - ETA: 22s - loss: 0.0213 - accuracy: 0.
997 - ETA: 22s - loss: 0.0212 - accuracy: 0.997 - ETA: 21s - loss: 0.0211 - accuracy: 0.997 - ETA: 21s - loss: 0.0211 - accuracy: 0.997
7 - ETA: 21s - loss: 0.0210 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss: 0.0209 - accuracy: 0.997
  - ETA: 19s - loss: 0.0208 - accuracy: 0.997 - ETA: 19s - loss: 0.0208 - accuracy: 0.997 - ETA: 19s - loss: 0.0207 - accuracy: 0.997 -
ETA: 18s - loss: 0.0206 - accuracy: 0.997 - ETA: 18s - loss: 0.0206 - accuracy: 0.997 - ETA: 17s - loss: 0.0205 - accuracy: 0.997 - ET
A: 17s - loss: 0.0204 - accuracy: 0.997 - ETA: 17s - loss: 0.0204 - accuracy: 0.997 - ETA: 16s - loss: 0.0203 - accuracy: 0.997 - ETA:
16s - loss: 0.0202 - accuracy: 0.997 - ETA: 15s - loss: 0.0202 - accuracy: 0.997 - ETA: 15s - loss: 0.0201 - accuracy: 0.997 - ETA: 15
s - loss: 0.0208 - accuracy: 0.997 - ETA: 14s - loss: 0.0207 - accuracy: 0.997 - ETA: 14s - loss: 0.0207 - accuracy: 0.997 - ETA: 13s - loss: 0.0206 - accuracy: 0.997 - ETA: 13s - loss: 0.0206 - accuracy: 0.997 - ETA: 12s -
loss: 0.0204 - accuracy: 0.997 - ETA: 12s - loss: 0.0204 - accuracy: 0.997 - ETA: 12s - loss: 0.0210 - accuracy: 0.997 - ETA: 11s - lo
ss: 0.0210 - accuracy: 0.997 - ETA: 11s - loss: 0.0209 - accuracy: 0.997 - ETA: 11s - loss: 0.0208 - accuracy: 0.997 - ETA: 10s - los
S: 0.0208 - accuracy: 0.997 - ETA: 10s - loss: 0.0213 - accuracy: 0.997 - ETA: 10s - loss: 0.0219 - accuracy: 0.997 - ETA: 9s - loss: 0.0218 - accuracy: 0.997 - ETA: 9s - loss: 0.0217 - accuracy: 0.997 - ETA: 8s - loss: 0.0217
- accuracy: 0.99 - ETA: 8s - loss: 0.0216 - accuracy: 0.9973WARNING:tensorflow:Method (on_train_batch_end) is slow compared to the bat
ch update (0.180546). Check your callbacks.
322/322 [==========] - ETA: 7s - loss: 0.0216 - accuracy: 0.99 - ETA: 7s - loss: 0.0215 - accuracy: 0.99 - ETA: 7s
- loss: 0.0215 - accuracy: 0.99 - ETA: 6s - loss: 0.0215 - accuracy: 0.99 - ETA: 6s - loss: 0.0214 - accuracy: 0.99 - ETA: 6s - loss:
 0.0214 - accuracy: 0.99 - ETA: 5s - loss: 0.0213 - accuracy: 0.99 - ETA: 5s - loss: 0.0213 - accuracy: 0.99 - ETA: 4s - loss: 0.0212
  - accuracy: 0.99 - ETA: 4s - loss: 0.0212 - accuracy: 0.99 - ETA: 4s - loss: 0.0211 - accuracy: 0.99 - ETA: 3s - loss: 0.0211 - accur
acy: 0.99 - ETA: 3s - loss: 0.0210 - accuracy: 0.99 - ETA: 3s - loss: 0.0210 - accuracy: 0.99 - ETA: 2s - loss: 0.0209 - accuracy: 0.99
9 - ETA: 2s - loss: 0.0209 - accuracy: 0.99 - ETA: 1s - loss: 0.0208 - accuracy: 0.99 - ETA: 1s - loss: 0.0207 - accuracy: 0.99 - ETA:
1s - loss: 0.0207 - accuracy: 0.99 - ETA: 0s - loss: 0.0206 - accuracy: 0.99 - ETA: 0s - loss: 0.0206 - accuracy: 0.99 - ETA: 0s - loss: 0.0206 - accuracy: 0.99 - 128s 399ms/step - loss: 0.0206 - accuracy: 0.9975 - val_loss: 0.0233 - val_accuracy: 0.9968
Epoch 41/50
                                     .....] - ETA: 0s - loss: 0.0030 - accuracy: 1.00 - ETA: 1:04 - loss: 0.0029 - accuracy: 1.00 - ETA:
  29/322 [=>...
  1:30 - loss: 0.0029 - accuracy: 1.00 - ETA: 1:54 - loss: 0.0028 - accuracy: 1.00 - ETA: 2:22 - loss: 0.0028 - accuracy: 1.00 - ETA:
  2:28 - loss: 0.0358 - accuracy: 0.99 - ETA: 2:38 - loss: 0.0311 - accuracy: 0.99 - ETA: 2:27 - loss: 0.0535 - accuracy: 0.99 - ETA:
```

2:19 - loss: 0.0480 - accuracy: 0.99 - ETA: 2:11 - loss: 0.0437 - accuracy: 0.99 - ETA: 2:05 - loss: 0.0403 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0522 - accuracy: 0.99 - ETA: 2:16 - loss: 0.0488 - accuracy: 0.99 - ETA: 2:16 - loss: 0.0459 - accuracy: 0.99 - ETA: 2:20 - loss: 0.0550 - accuracy: 0.99 - ETA: 2:19 - loss: 0.0625 - accuracy: 0.99 - ETA: 2:17 - loss: 0.0600 - accuracy: 0.99 - ETA: 2:14 - loss: 0.0577 - accuracy: 0.99 - ETA: 2:11 - loss: 0.0557 - accuracy: 0.99 - ETA: 2:09 - loss: 0.0537 - accuracy: 0.99 - ETA: 2:18

```
2:10 - loss: 0.0519 - accuracy: 0.99 - ETA: 2:16 - loss: 0.0501 - accuracy: 0.99 - ETA: 2:27 - loss: 0.0485 - accuracy: 0.99 - ETA: 2:27 - loss: 0.0470 - accuracy: 0.99 - ETA: 2:40 - loss: 0.0456 - accuracy: 0.99 - ETA: 2:40 - loss: 0.0443 - accuracy: 0.99 - ETA:
 2:37 - loss: 0.0431 - accuracy: 0.99 - ETA: 2:35 - loss: 0.0419 - accuracy: 0.99 - ETA: 2:34 - loss: 0.0407 - accuracy: 0.9946WARNIN
G:tensorflow:Method (on_train_batch_end) is slow compared to the batch update (0.200052). Check your callbacks.
139/322 [======>>...........] - ETA: 2:31 - loss: 0.0397 - accuracy: 0.99 - ETA: 2:27 - loss: 0.0386 - accuracy: 0.99 - ETA: 2:23 - loss: 0.0377 - accuracy: 0.99 - ETA: 2:20 - loss: 0.0367 - accuracy: 0.99 - ETA: 2:17 - loss: 0.0359 - accuracy: 0.99 - ETA:
2:14 - loss: 0.0350 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0342 - accuracy: 0.99 - ETA: 2:10 - loss: 0.0334 - accuracy: 0.99 - ETA: 2:
08 - loss: 0.0326 - accuracy: 0.99 - ETA: 2:05 - loss: 0.0319 - accuracy: 0.99 - ETA: 2:03 - loss: 0.0312 - accuracy: 0.99 - ETA: 2:01
- loss: 0.0306 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0299 - accuracy: 0.99 - ETA: 1:57 - loss: 0.0293 - accuracy: 0.99 - ETA: 1:56 -
  loss: 0.0287 - accuracy: 0.99 - ETA: 1:54 - loss: 0.0282 - accuracy: 0.99 - ETA: 1:53 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:53 - l
oss: 0.0271 - accuracy: 0.99 - ETA: 1:54 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:53 - loss: 0.0261 - accuracy: 0.99 - ETA: 1:51 - los
s: 0.0256 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0252 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0292 - accuracy: 0.99 - ETA: 1:51 - loss:
0.0287 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0283 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0278 - accuracy: 0.99 - ETA: 1:48 - loss: 0.
0274 - accuracy: 0.99 - ETA: 1:48 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:48 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:47 - loss: 0.02
62 - accuracy: 0.99 - ETA: 1:48 - loss: 0.0258 - accuracy: 0.99 - ETA: 1:48 - loss: 0.0288 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0284
- accuracy: 0.99 - ETA: 1:46 - loss: 0.0280 - accuracy: 0.99 - ETA: 1:45 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:44 - loss: 0.0273 -
 accuracy: 0.99 - ETA: 1:43 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:43 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:43 - loss: 0.0292 - a
ccuracy: 0.99 - ETA: 1:42 - loss: 0.0289 - accuracy: 0.99 - ETA: 1:42 - loss: 0.0285 - accuracy: 0.99 - ETA: 1:41 - loss: 0.0282 - acc
uracy: 0.99 - ETA: 1:40 - loss: 0.0279 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0275 - accuracy: 0.99 - ETA: 1:38 - loss: 0.0296 - accur
acy: 0.99 - ETA: 1:37 - loss: 0.0292 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0289 - accuracy: 0.99 - ETA: 1:36 - loss: 0.0286 - accuracy
y: 0.99 - ETA: 1:36 - loss: 0.0284 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0281 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0278 - accuracy:
0.99 - ETA: 1:34 - loss: 0.0275 - accuracy: 0.99 - ETA: 1:33 - loss: 0.0273 - accuracy: 0.99 - ETA: 1:32 - loss: 0.0270 - accuracy: 0.
99 - ETA: 1:32 - loss: 0.0288 - accuracy: 0.99 - ETA: 1:31 - loss: 0.0286 - accuracy: 0.99 - ETA: 1:30 - loss: 0.0283 - accuracy: 0.99
ETA: 1:28 - loss: 0.0273 - accuracy: 0.99 - ETA: 1:27 - loss: 0.0271 - accuracy: 0.99 - ETA: 1:26 - loss: 0.0269 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0273 - accuracy: 0.99 - ETA: 1:27 - loss: 0.0271 - accuracy: 0.99 - ETA: 1:26 - loss: 0.0269 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0273 - accuracy: 0.99 - ETA: 1:27 - loss: 0.0271 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0273 - accuracy: 0.99 - ETA: 1:27 - loss: 0.0271 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0273 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0273 - accuracy: 0.99 - ETA: 1:27 - loss: 0.0271 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0273 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0274 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0275 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:28 - loss: 0.02
TA: 1:26 - loss: 0.0284 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0282 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0280 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:23 - loss: 0.0275 - accuracy: 0.99 - ETA: 1:22 - loss: 0.0273 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0275 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:25 - loss: 0.027
1:22 - loss: 0.0271 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0286 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0283 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0281 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0279 - accuracy: 0.99 - ETA: 1:18
- loss: 0.0275 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0273 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0271 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0269 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0265 - accuracy: 0.99 - ETA: 1:15 - l
oss: 0.0263 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0261 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0259 - accuracy: 0.99 - ETA: 1:13 - los
s: 0.0257 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0255 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0253 - accuracy: 0.99 - ETA: 1:12 - loss:
0.0251 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0250 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0248 - accuracy: 0.99 - ETA: 1:11 - loss: 0.
0246 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0244 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0242 - accuracy: 0.99 - ETA: 1:11 - loss: 0.02
41 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0239 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0237 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0236
- accuracy: 0.99 - ETA: 1:11 - loss: 0.0234 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0232 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0231 -
 accuracy: 0.99 - ETA: 1:13 - loss: 0.0229 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0226 - a
ccuracy: 0.99 - ETA: 1:13 - loss: 0.0224 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0223 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0221 - acc
uracy: 0.99 - ETA: 1:16 - loss: 0.0237 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0235 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0249 - accur
acy: 0.99 - ETA: 1:16 - loss: 0.0262 - accuracy: 0.9966WARNING:tensorflow:Method (on train batch end) is slow compared to the batch up
date (0.372591). Check your callbacks.
141/322 [=======>:......] - ETA: 1:16 - loss: 0.0261 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0271 - accuracy: 0.9965WARN
ING:tensorflow:Method (on_train_batch_end) is slow compared to the batch update (0.270566). Check your callbacks.
161/322 [=======>:.....................] - ETA: 1:16 - loss: 0.0271 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:17 - loss: 0.027
1:16 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:
17 - loss: 0.0275 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0274 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0273 - accuracy: 0.99 - ETA: 1:16
- loss: 0.0272 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:18 - loss: 0.027 - accuracy: 0.99 - ETA: 1:18 - loss: 0.027 - accuracy: 0.99 - ETA: 1:18 - loss: 0.027 - accuracy: 0.99 - ETA: 1:18 - loss: 0.027 - accuracy: 0.99 - ETA: 1:18 - loss: 0.027 - accuracy: 0.99 - ETA: 1:18 - loss: 0.027 - accuracy: 0.99 - accuracy: 0.99 - accuracy: 0.99 - accu
oss: 0.0265 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0263 - accuracy: 0.9967WARNING:tensorfl
ow:Method (on_train_batch_end) is slow compared to the batch update (0.329083). Check your callbacks.
164/322 [======>=>......] - ETA: 1:18 - loss: 0.0261 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0260 - accuracy: 0.99 - ET
A: 1:17 - loss: 0.0259 - accuracy: 0.9968WARNING:tensorflow:Method (on_train_batch_end) is slow compared to the batch update (0.22805
8). Check your callbacks.
1:13 - loss: 0.0252 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0250 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0249 - accuracy: 0.99 - ETA: 1:
11 - loss: 0.0248 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0247 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0245 - accuracy: 0.99 - ETA: 1:09
- loss: 0.0244 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0243 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0242 - accuracy: 0.99 - ETA: 1:09 -
 loss: 0.0241 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0239 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0250 - accuracy: 0.99 - ETA: 1:07 - 1
oss: 0.0248 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0247 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:07 - los
s: 0.0245 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0244 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0243 - accuracy: 0.99 - ETA: 1:06 - loss:
0.0242 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0241 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0240 - accuracy: 0.99 - ETA: 1:04 - loss: 0.
0238 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0237 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0236 - accuracy: 0.99 - ETA: 1:02 - loss: 0.02
35 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0234 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0233 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0232
- accuracy: 0.99 - ETA: 1:00 - loss: 0.0231 - accuracy: 0.99 - ETA: 59s - loss: 0.0230 - accuracy: 0.9972 - ETA: 59s - loss: 0.0239 -
 accuracy: 0.997 - ETA: 58s - loss: 0.0238 - accuracy: 0.997 - ETA: 58s - loss: 0.0237 - accuracy: 0.997 - ETA: 57s - loss: 0.0236 - a
ccuracy: 0.997 - ETA: 57s - loss: 0.0235 - accuracy: 0.997 - ETA: 56s - loss: 0.0234 - accuracy: 0.997 - ETA: 55s - loss: 0.0233 - acc
uracy: 0.997 - ETA: 55s - loss: 0.0232 - accuracy: 0.997 - ETA: 54s - loss: 0.0231 - accuracy: 0.997 - ETA: 54s - loss: 0.0230 - accur
acy: 0.997 - ETA: 53s - loss: 0.0229 - accuracy: 0.997 - ETA: 53s - loss: 0.0228 - accuracy: 0.997 - ETA: 52s - loss: 0.0228 - accuracy
9: 0.997 - ETA: 52s - loss: 0.0227 - accuracy: 0.997 - ETA: 51s - loss: 0.0226 - accuracy: 0.997 - ETA: 51s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0224 - accuracy: 0.997 - ETA: 50s - loss: 0.0223 - accuracy: 0.997 - ETA: 49s - loss: 0.0222 - accuracy: 0.997 - ETA: 50s - loss: 0.0224 - accuracy: 0.997 - ETA: 50s - loss: 0.0225 - accuracy: 0.997 - ETA: 50s - loss: 0.0225 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - loss: 0.0226 - accuracy: 0.997 - ETA: 50s - 
997 - ETA: 49s - loss: 0.0221 - accuracy: 0.997 - ETA: 48s - loss: 0.0220 - accuracy: 0.997 - ETA: 48s - loss: 0.0219 - accuracy: 0.997 - ETA: 47s - loss: 0.0219 - accuracy: 0.997 - ETA: 46s - loss: 0.0218 - accuracy: 0.997 - ETA: 46s - loss: 0.0218 - accuracy: 0.997 - ETA: 46s - loss: 0.0218 - accuracy: 0.997 - ETA: 46s - loss: 0.0218 - accuracy: 0.997 - ETA: 46s - loss: 0.0218 - accuracy: 0.997 - ETA: 46s - loss: 0.0219 - accuracy: 0.997
  - ETA: 45s - loss: 0.0216 - accuracy: 0.997 - ETA: 45s - loss: 0.0234 - accuracy: 0.997 - ETA: 44s - loss: 0.0233 - accuracy: 0.997 -
ETA: 44s - loss: 0.0232 - accuracy: 0.997 - ETA: 43s - loss: 0.0231 - accuracy: 0.997 - ETA: 43s - loss: 0.0230 - accuracy: 0.997 - ET
A: 42s - loss: 0.0230 - accuracy: 0.997 - ETA: 42s - loss: 0.0229 - accuracy: 0.997 - ETA: 41s - loss: 0.0228 - accuracy: 0.997 - ETA:
41s - loss: 0.0228 - accuracy: 0.997 - ETA: 40s - loss: 0.0227 - accuracy: 0.997 - ETA: 40s - loss: 0.0226 - accuracy: 0.997 - ETA: 39
s - loss: 0.0225 - accuracy: 0.997 - ETA: 38s - loss: 0.0225 - accuracy: 0.997 - ETA: 38s - loss: 0.0224 - accuracy: 0.997 - ETA: 38s
  - loss: 0.0223 - accuracy: 0.997 - ETA: 37s - loss: 0.0222 - accuracy: 0.997 - ETA: 36s - loss: 0.0229 - accuracy: 0.997 - ETA: 36s -
loss: 0.0229 - accuracy: 0.997 - ETA: 35s - loss: 0.0228 - accuracy: 0.997 - ETA: 35s - loss: 0.0227 - accuracy: 0.997 - ETA: 34s - lo
ss: 0.0226 - accuracy: 0.997 - ETA: 34s - loss: 0.0226 - accuracy: 0.997 - ETA: 33s - loss: 0.0225 - accuracy: 0.997 - ETA: 33s - los
s: 0.0224 - accuracy: 0.997 - ETA: 32s - loss: 0.0224 - accuracy: 0.997 - ETA: 32s - loss: 0.0223 - accuracy: 0.997 - ETA: 32s - loss:
0.0222 - accuracy: 0.997 - ETA: 31s - loss: 0.0221 - accuracy: 0.997 - ETA: 31s - loss: 0.0221 - accuracy: 0.997 - ETA: 30s - loss: 0.
0220 - accuracy: 0.997 - ETA: 29s - loss: 0.0219 - accuracy: 0.997 - ETA: 29s - loss: 0.0219 - accuracy: 0.997 - ETA: 29s - loss: 0.02
25 - accuracy: 0.997 - ETA: 28s - loss: 0.0224 - accuracy: 0.997 - ETA: 28s - loss: 0.0224 - accuracy: 0.997 - ETA: 27s - loss: 0.0223
- accuracy: 0.997 - ETA: 27s - loss: 0.0222 - accuracy: 0.997 - ETA: 27s - loss: 0.0222 - accuracy: 0.997 - ETA: 26s - loss: 0.0221 -
  accuracy: 0.997 - ETA: 26s - loss: 0.0220 - accuracy: 0.997 - ETA: 25s - loss: 0.0220 - accuracy: 0.997 - ETA: 25s - loss: 0.0219 - a
ccuracy: 0.997 - ETA: 24s - loss: 0.0218 - accuracy: 0.997 - ETA: 24s - loss: 0.0225 - accuracy: 0.997 - ETA: 23s - loss: 0.0229 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA: 22s - loss: 0.0230 - accuracy: 0.997 - ETA:
```

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acy: 0.997 - ETA: 21s - loss: 0.0228 - accuracy: 0.997 - ETA: 21s - loss: 0.0228 - accuracy: 0.997 - ETA: 20s - loss: 0.0227 - accuracy: 0.997 - ETA: 20s - loss: 0.0227 - accuracy: 0.997 - ETA: 20s - loss: 0.0226 - accuracy: 0.997 - ETA: 19s - loss: 0.0225 - accuracy:
0.997 - ETA: 19s - loss: 0.0225 - accuracy: 0.997 - ETA: 18s - loss: 0.0224 - accuracy: 0.997 - ETA: 18s - loss: 0.0224 - accuracy: 0.
997 - ETA: 17s - loss: 0.0223 - accuracy: 0.997 - ETA: 17s - loss: 0.0222 - accuracy: 0.997 - ETA: 16s - loss: 0.0222 - accuracy: 0.99
7 - ETA: 16s - loss: 0.0221 - accuracy: 0.997 - ETA: 15s - loss: 0.0221 - accuracy: 0.997 - ETA: 15s - loss: 0.0220 - accuracy: 0.997
 - ETA: 14s - loss: 0.0219 - accuracy: 0.997 - ETA: 14s - loss: 0.0219 - accuracy: 0.997 - ETA: 14s - loss: 0.0218 - accuracy: 0.997 -
ETA: 13s - loss: 0.0217 - accuracy: 0.997 - ETA: 13s - loss: 0.0217 - accuracy: 0.997 - ETA: 12s - loss: 0.0216 - accuracy: 0.997 - ETA
A: 12s - loss: 0.0216 - accuracy: 0.997 - ETA: 11s - loss: 0.0215 - accuracy: 0.997 - ETA: 11s - loss: 0.0214 - accuracy: 0.997 - ETA:
11s - loss: 0.0214 - accuracy: 0.997 - ETA: 10s - loss: 0.0213 - accuracy: 0.997 - ETA: 10s - loss: 0.0212 - accuracy: 0.997 - ETA: 9s
- loss: 0.0219 - accuracy: 0.997 - ETA: 9s - loss: 0.0218 - accuracy: 0.99 - ETA: 8s - loss: 0.0217 - accuracy: 0.99 - ETA: 8s - loss:
0.0217 - accuracy: 0.99 - ETA: 7s - loss: 0.0216 - accuracy: 0.99 - ETA: 7s - loss: 0.0216 - accuracy: 0.99 - ETA: 6s - loss: 0.0215 -
accuracy: 0.99 - ETA: 6s - loss: 0.0214 - accuracy: 0.99 - ETA: 5s - loss: 0.0214 - accuracy: 0.99 - ETA: 5s - loss: 0.0213 - accurac
y: 0.99 - ETA: 5s - loss: 0.0213 - accuracy: 0.99 - ETA: 4s - loss: 0.0212 - accuracy: 0.99 - ETA: 4s - loss: 0.0211 - accuracy: 0.99
  - ETA: 3s - loss: 0.0211 - accuracy: 0.99 - ETA: 3s - loss: 0.0210 - accuracy: 0.99 - ETA: 2s - loss: 0.0210 - accuracy: 0.99 - ETA:
 2s - loss: 0.0209 - accuracy: 0.99 - ETA: 1s - loss: 0.0209 - accuracy: 0.99 - ETA: 1s - loss: 0.0208 - accuracy: 0.99 - ETA: 0s - lo
ss: 0.0207 - accuracy: 0.99 - ETA: 0s - loss: 0.0207 - accuracy: 0.99 - ETA: 0s - loss: 0.0207 - accuracy: 0.99 - 156s 486ms/step - lo
ss: 0.0207 - accuracy: 0.9975 - val_loss: 0.0240 - val_accuracy: 0.9968
186/322 [=======>>......] - ETA: 0s - loss: 0.0025 - accuracy: 1.00 - ETA: 1:15 - loss: 0.0025 - accuracy: 1.00 - ETA: 1:42 - loss: 0.0025 - accuracy: 1.00 - ETA: 1:39 - loss: 0.0025 - accuracy: 1.00 - ETA: 1:40 - loss: 0.0025 - accuracy: 1.00 - ETA:
 1:34 - loss: 0.0025 - accuracy: 1.00 - ETA: 1:27 - loss: 0.0312 - accuracy: 0.99 - ETA: 1:23 - loss: 0.0276 - accuracy: 0.99 - ETA:
```

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1:19 - loss: 0.0248 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0399 - accuracy: 0.99 - ETA:
 1:16 - loss: 0.0369 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0344 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0324 - accuracy: 0.99 - ETA:
 1:11 - loss: 0.0425 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0403 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0485 - accuracy: 0.99 - ETA:
 1:13 - loss: 0.0464 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0530 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0512 - accuracy: 0.99 - ETA:
 1:25 - loss: 0.0497 - accuracy: 0.99 - ETA: 1:31 - loss: 0.0482 - accuracy: 0.99 - ETA: 1:31 - loss: 0.0468 - accuracy: 0.99 - ETA:
 1:32 - loss: 0.0454 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0441 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0429 - accuracy: 0.99 - ETA:
 1:38 - loss: 0.0417 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0406 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0396 - accuracy: 0.99 - ETA:
 1:42 - loss: 0.0386 - accuracy: 0.99 - ETA: 1:43 - loss: 0.0377 - accuracy: 0.99 - ETA: 1:46 - loss: 0.0368 - accuracy: 0.99 - ETA:
 1:47 - loss: 0.0359 - accuracy: 0.99 - ETA: 1:45 - loss: 0.0351 - accuracy: 0.99 - ETA: 1:43 - loss: 0.0343 - accuracy: 0.99 - ETA:
 1:42 - loss: 0.0335 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0328 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0321 - accuracy: 0.99 - ETA:
 1:40 - loss: 0.0314 - accuracy: 0.99 - ETA: 1:38 - loss: 0.0307 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0301 - accuracy: 0.99 - ETA:
 1:37 - loss: 0.0295 - accuracy: 0.99 - ETA: 1:36 - loss: 0.0289 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0283 - accuracy: 0.99 - ETA:
 1:34 - loss: 0.0278 - accuracy: 0.99 - ETA: 1:33 - loss: 0.0272 - accuracy: 0.99 - ETA: 1:31 - loss: 0.0267 - accuracy: 0.99 - ETA:
 1:31 - loss: 0.0262 - accuracy: 0.99 - ETA: 1:30 - loss: 0.0258 - accuracy: 0.99 - ETA: 1:29 - loss: 0.0253 - accuracy: 0.99 - ETA:
 1:28 - loss: 0.0249 - accuracy: 0.99 - ETA: 1:27 - loss: 0.0244 - accuracy: 0.99 - ETA: 1:26 - loss: 0.0240 - accuracy: 0.99 - ETA:
 1:25 - loss: 0.0236 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0233 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0229 - accuracy: 0.99 - ETA:
 1:24 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:23 - loss: 0.0222 - accuracy: 0.99 - ETA: 1:22 - loss: 0.0218 - accuracy: 0.99 - ETA:
 1:21 - loss: 0.0215 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0212 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0243 - accuracy: 0.99 - ETA:
 1:20 - loss: 0.0240 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0237 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0234 - accuracy: 0.99 - ETA:
 1:18 - loss: 0.0230 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0225 - accuracy: 0.99 - ETA:
 1:16 - loss: 0.0222 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0219 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0217 - accuracy: 0.99 - ETA:
 1:15 - loss: 0.0214 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0241 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0238 - accuracy: 0.99 - ETA:
 1:14 - loss: 0.0235 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0233 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0230 - accuracy: 0.99 - ETA:
 1:15 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0251 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0248 - accuracy: 0.99 - ETA:
 1:16 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0243 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0241 - accuracy: 0.99 - ETA:
 1:17 - loss: 0.0239 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0237 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0277 - accuracy: 0.99 - ETA:
 1:18 - loss: 0.0274 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0291 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0289 - accuracy: 0.99 - ETA:
 1:19 - loss: 0.0287 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0285 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0283 - accuracy: 0.99 - ETA:
 1:20 - loss: 0.0282 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0280 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0278 - accuracy: 0.99 - ETA:
 1:19 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0275 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0273 - accuracy: 0.99 - ETA:
 1:19 - loss: 0.0271 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0269 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0267 - accuracy: 0.99 - ETA:
 1:19 - loss: 0.0265 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0281 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0279 - accuracy: 0.99 - ETA:
 1:21 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0275 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0273 - accuracy: 0.99 - ETA:
 1:20 - loss: 0.0271 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0285 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0283 - accuracy: 0.99 - ETA:
 1:19 - loss: 0.0281 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0295 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0293 - accuracy: 0.99 - ETA:
 1:18 - loss: 0.0291 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0289 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0288 - accuracy: 0.99 - ETA:
 1:16 - loss: 0.0286 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0284 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0282 - accuracy: 0.99 - ETA:
 1:16 - loss: 0.0281 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0279 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0277 - accuracy: 0.99 - ETA:
 1:17 - loss: 0.0275 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0274 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0272 - accuracy: 0.99 - ETA:
 1:18 - loss: 0.0285 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0283 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0282 - accuracy: 0.99 - ETA:
 1:18 - loss: 0.0280 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0278 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0276 - accuracy: 0.99 - ETA:
 1:20 - loss: 0.0275 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0273 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0271 - accuracy: 0.99 - ETA:
 1:20 - loss: 0.0284 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0282 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0280 - accuracy: 0.99 - ETA:
 1:19 - loss: 0.0279 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0277 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0276 - accuracy: 0.99 - ETA:
 1:18 - loss: 0.0274 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0272 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0271 - accuracy: 0.99 - ETA:
 1:17 - loss: 0.0269 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0268 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0266 - accuracy: 0.99 - ETA:
 1:16 - loss: 0.0265 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0263 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0262 - accuracy: 0.99 - ETA:
 1:15 - loss: 0.0260 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0259 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0257 - accuracy: 0.99 - ETA:
 1:15 - loss: 0.0256 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0254 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0253 - accuracy: 0.99 - ETA:
 1:13 - loss: 0.0251 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0250 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0249 - accuracy: 0.99 - ETA:
 1:12 - loss: 0.0247 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0244 - accuracy: 0.99 - ETA:
 1:11 - loss: 0.0243 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0242 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0240 - accuracy: 0.99 - ETA:
 1:10 - loss: 0.0239 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0238 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0237 - accuracy: 0.99 - ETA:
 1:09 - loss: 0.0235 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0234 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0233 - accuracy: 0.99 - ETA:
 1:07 - loss: 0.0232 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0230 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0229 - accuracy: 0.99 - ETA:
 1:06 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0226 - accuracy: 0.99 - ETA:
 1:05 - loss: 0.0224 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0223 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0222 - accuracy: 0.99 - ETA:
 1:03 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0220 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0219 - accuracy: 0.99 - ETA:
 1:01 - loss: 0.0229 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0227 - accuracy: 0.99 - ETA:
1:00 - loss: 0.0226 - accuracy: 0.9971208/322 [=========>....] - ETA: 59s - loss: 0.0225 - accuracy: 0.9972 - ETA: 59
s - loss: 0.0224 - accuracy: 0.997 - ETA: 59s - loss: 0.0223 - accuracy: 0.997 - ETA: 58s - loss: 0.0222 - accuracy: 0.997 - ETA: 58s
 - loss: 0.0221 - accuracy: 0.997 - ETA: 58s - loss: 0.0220 - accuracy: 0.997 - ETA: 57s - loss: 0.0219 - accuracy: 0.997 - ETA: 57s -
loss: 0.0218 - accuracy: 0.997 - ETA: 56s - loss: 0.0217 - accuracy: 0.997 - ETA: 56s - loss: 0.0216 - accuracy: 0.997 - ETA: 55s - lo
ss: 0.0215 - accuracy: 0.997 - ETA: 55s - loss: 0.0214 - accuracy: 0.997 - ETA: 55s - loss: 0.0213 - accuracy: 0.997 - ETA: 54s - los
s: 0.0212 - accuracy: 0.997 - ETA: 54s - loss: 0.0211 - accuracy: 0.997 - ETA: 54s - loss: 0.0210 - accuracy: 0.997 - ETA: 53s - loss:
0.0209 - accuracy: 0.997 - ETA: 53s - loss: 0.0209 - accuracy: 0.997 - ETA: 53s - loss: 0.0208 - accuracy: 0.997 - ETA: 52s - loss: 0.
0207 - accuracy: 0.997 - ETA: 52s - loss: 0.0206 - accuracy: 0.997 - ETA: 51s - loss: 0.0205 - accuracy: 0.9974WARNING:tensorflow:Meth
od (on_train_batch_end) is slow compared to the batch update (0.219553). Check your callbacks.
223/322 [===========>:......] - ETA: 51s - loss: 0.0204 - accuracy: 0.997 - ETA: 51s - loss: 0.0203 - accuracy: 0.997 - ET
A: 51s - loss: 0.0202 - accuracy: 0.997 - ETA: 51s - loss: 0.0202 - accuracy: 0.997 - ETA: 50s - loss: 0.0201 - accuracy: 0.997 - ETA:
```

50s - loss: 0.0200 - accuracy: 0.997 - ETA: 50s - loss: 0.0199 - accuracy: 0.997 - ETA: 49s - loss: 0.0198 - accuracy: 0.997 - ETA: 49 s - loss: 0.0197 - accuracy: 0.997 - ETA: 49s - loss: 0.0197 - accuracy: 0.997 - ETA: 48s - loss: 0.0196 - accuracy: 0.997 - ETA: 48s - loss: 0.0195 - accuracy: 0.997 - ETA: 48s - loss: 0.0194 - accuracy: 0.997 - ETA: 47s - loss: 0.0193 - accuracy: 0.997 - ETA: 47s loss: 0.0193 - accuracy: 0.9976WARNING:tensorflow:Method (on_train_batch_end) is slow compared to the batch update (0.287574). Check y our callbacks.

45s - loss: 0.0188 - accuracy: 0.997 - ETA: 44s - loss: 0.0187 - accuracy: 0.997 - ETA: 44s - loss: 0.0196 - accuracy: 0.997 - ETA: 43 s - loss: 0.0196 - accuracy: 0.997 - ETA: 43s - loss: 0.0195 - accuracy: 0.997 - ETA: 42s - loss: 0.0194 - accuracy: 0.997 - ETA: 41s - loss: 0.0193 - accuracy: 0.997 - ETA: 41s - loss: 0.0193 - accuracy: 0.997 - ETA: 40s - loss: 0.0192 - accuracy: 0.997 - ETA: 40s loss: 0.0191 - accuracy: 0.997 - ETA: 39s - loss: 0.0191 - accuracy: 0.997 - ETA: 39s - loss: 0.0190 - accuracy: 0.997 - ETA: 38s - lo ss: 0.0189 - accuracy: 0.997 - ETA: 38s - loss: 0.0189 - accuracy: 0.997 - ETA: 37s - loss: 0.0188 - accuracy: 0.997 - ETA: 37s - los s: 0.0187 - accuracy: 0.997 - ETA: 36s - loss: 0.0196 - accuracy: 0.997 - ETA: 36s - loss: 0.0195 - accuracy: 0.997 - ETA: 35s - loss: 0.0194 - accuracy: 0.997 - ETA: 35s - loss: 0.0194 - accuracy: 0.997 - ETA: 34s - loss: 0.0193 - accuracy: 0.997 - ETA: 34s - loss: 0. 0192 - accuracy: 0.997 - ETA: 33s - loss: 0.0192 - accuracy: 0.997 - ETA: 33s - loss: 0.0191 - accuracy: 0.997 - ETA: 32s - loss: 0.01 90 - accuracy: 0.997 - ETA: 32s - loss: 0.0190 - accuracy: 0.997 - ETA: 31s - loss: 0.0197 - accuracy: 0.997 - ETA: 31s - loss: 0.0196 - accuracy: 0.997 - ETA: 31s - loss: 0.0196 - accuracy: 0.997 - ETA: 30s - loss: 0.0195 - accuracy: 0.997 - ETA: 30s - loss: 0.0194 accuracy: 0.997 - ETA: 29s - loss: 0.0194 - accuracy: 0.997 - ETA: 29s - loss: 0.0193 - accuracy: 0.997 - ETA: 28s - loss: 0.0193 - a ccuracy: 0.997 - ETA: 28s - loss: 0.0192 - accuracy: 0.997 - ETA: 27s - loss: 0.0192 - accuracy: 0.997 - ETA: 27s - loss: 0.0191 - acc uracy: 0.997 - ETA: 27s - loss: 0.0190 - accuracy: 0.997 - ETA: 26s - loss: 0.0190 - accuracy: 0.997 - ETA: 26s - loss: 0.0189 - accur acy: 0.997 - ETA: 25s - loss: 0.0189 - accuracy: 0.997 - ETA: 25s - loss: 0.0188 - accuracy: 0.997 - ETA: 24s - loss: 0.0188 - accuracy y: 0.997 - ETA: 24s - loss: 0.0187 - accuracy: 0.997 - ETA: 24s - loss: 0.0186 - accuracy: 0.997 - ETA: 23s - loss: 0.0186 - accuracy: 0.997 - ETA: 23s - loss: 0.0185 - accuracy: 0.997 - ETA: 22s - loss: 0.0185 - accuracy: 0.997 - ETA: 22s - loss: 0.0184 - accuracy: 0. 997 - ETA: 21s - loss: 0.0184 - accuracy: 0.997 - ETA: 21s - loss: 0.0183 - accuracy: 0.997 - ETA: 20s - loss: 0.0197 - accuracy: 0.997 - ETA: 20s - loss: 0.0197 - accuracy: 0.997 - ETA: 20s - loss: 0.0196 - accuracy: 0.997 - ETA: 18s - loss: 0.0195 - accuracy: 0.997 - ETA: 18s - loss: 0.0195 - accuracy: 0.997 - ETA: 17s - loss: 0.0194 - accuracy: 0.997 -ETA: 17s - loss: 0.0194 - accuracy: 0.997 - ETA: 17s - loss: 0.0199 - accuracy: 0.997 - ETA: 16s - loss: 0.0199 - accuracy: 0.997 - ETA A: 16s - loss: 0.0204 - accuracy: 0.997 - ETA: 15s - loss: 0.0204 - accuracy: 0.997 - ETA: 15s - loss: 0.0203 - accuracy: 0.997 - ETA: 14s - loss: 0.0203 - accuracy: 0.997 - ETA: 14s - loss: 0.0203 - accuracy: 0.997 - ETA: 13s - loss: 0.0202 - accuracy: 0.997 - ETA: 13 s - loss: 0.0202 - accuracy: 0.997 - ETA: 12s - loss: 0.0201 - accuracy: 0.997 - ETA: 12s - loss: 0.0201 - accuracy: 0.997 - ETA: 11s - loss: 0.0201 - accuracy: 0.997 - ETA: 11s - loss: 0.0200 - accuracy: 0.997 - ETA: 10s - loss: 0.0200 - accuracy: 0.997 - ETA: 10s loss: 0.0199 - accuracy: 0.997 - ETA: 9s - loss: 0.0199 - accuracy: 0.997 - ETA: 9s - loss: 0.0198 - accuracy: 0.99 - ETA: 8s - loss: 0.0198 - accuracy: 0.99 - ETA: 8s - loss: 0.0197 - accuracy: 0.99 - ETA: 7s - loss: 0.0197 - accuracy: 0.99 - ETA: 6s - loss: 0.0203 - accuracy: 0.99 - ETA: 6s - loss: 0.0202 - accuracy: 0.99 - ETA: 5s - loss: 0.0208 - accuracy: 0.99 - ETA: 5s - loss: 0.0207 - accur acy: 0.99 - ETA: 4s - loss: 0.0207 - accuracy: 0.99 - ETA: 4s - loss: 0.0206 - accuracy: 0.99 - ETA: 3s - loss: 0.0206 - accuracy: 0.9 9 - ETA: 3s - loss: 0.0206 - accuracy: 0.99 - ETA: 2s - loss: 0.0205 - accuracy: 0.99 - ETA: 2s - loss: 0.0205 - accuracy: 0.99 - ETA: 1s - loss: 0.0204 - accuracy: 0.99 - ETA: 1s - loss: 0.0204 - accuracy: 0.99 - ETA: 0s - loss: 0.0203 - accuracy: 0.99 - ETA: 0s - los s: 0.0203 - accuracy: 0.99 - ETA: 0s - loss: 0.0203 - accuracy: 0.99 - 163s 507ms/step - loss: 0.0203 - accuracy: 0.9975 - val_loss: 0.0231 - val_accuracy: 0.9968

186/322 [=========>.......] - ETA: 0s - loss: 0.1843 - accuracy: 0.96 - ETA: 33s - loss: 0.0947 - accuracy: 0.984 - ETA: 52s - loss: 0.0648 - accuracy: 0.989 - ETA: 1:11 - loss: 0.0949 - accuracy: 0.98 - ETA: 1:20 - loss: 0.0771 - accuracy: 0.98 - ETA: 1:23 - loss: 0.0653 - accuracy: 0.98 - ETA: 1:21 - loss: 0.0569 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0507 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0647 - accuracy: 0.98 - ETA: 1:29 - loss: 0.0590 - accuracy: 0.99 - ETA: 1:27 - loss: 0.0543 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0505 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0473 - accuracy: 0.99 - ETA: 1:29 - loss: 0.0444 - accuracy: 0.99 - ETA: 1:31 - loss: 0.0420 - accuracy: 0.99 - ETA: 1:31 - loss: 0.0398 - accuracy: 0.99 - ETA: 1:29 - loss: 0.0378 - accuracy: 0.99 - ETA: 1:29 - loss: 0.0360 - accuracy: 0.99 - ETA: 1:31 - loss: 0.0345 - accuracy: 0.99 - ETA: 1:33 - loss: 0.0330 - accuracy: 0.99 - ETA: 1:32 - loss: 0.0317 - accuracy: 0.99 - ETA: 1:32 - loss: 0.0305 - accuracy: 0.99 - ETA: 1:33 - loss: 0.0294 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0283 - accuracy: 0.99 - ETA: 1:38 - loss: 0.0274 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0265 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0249 - accuracy: 0.99 - ETA: 1:36 - loss: 0.0241 - accuracy: 0.99 - ETA: 1:36 - loss: 0.0234 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0222 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0216 - accuracy: 0.99 - ETA: 1:38 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:36 - loss: 0.0200 - accuracy: 0.99 - ETA: 1:36 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:36 - loss: 0.0191 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0187 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0183 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0179 - accuracy: 0.99 - ETA: 1:36 - loss: 0.0175 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0172 - accuracy: 0.99 - ETA: 1:33 - loss: 0.0168 - accuracy: 0.99 - ETA: 1:32 - loss: 0.0165 - accuracy: 0.99 - ETA: 1:31 - loss: 0.0162 - accuracy: 0.99 - ETA: 1:31 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:31 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:30 - loss: 0.0241 - accuracy: 0.99 - ETA: 1:30 - loss: 0.0237 - accuracy: 0.99 - ETA: 1:32 - loss: 0.0234 - accuracy: 0.99 - ETA: 1:32 - loss: 0.0230 - accuracy: 0.99 - ETA: 1:30 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:30 - loss: 0.0224 - accuracy: 0.99 - ETA: 1:29 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0251 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0248 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0244 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0241 - accuracy: 0.99 - ETA: 1:27 - loss: 0.0238 - accuracy: 0.99 - ETA: 1:26 - loss: 0.0235 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0260 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0254 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0251 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0248 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:23 - loss: 0.0243 - accuracy: 0.99 - ETA: 1:22 - loss: 0.0240 - accuracy: 0.99 - ETA: 1:22 - loss: 0.0238 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0235 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0233 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0255 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0253 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0250 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0247 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0245 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0243 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0241 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0259 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0254 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0252 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0250 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0248 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0244 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0241 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0239 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0237 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0235 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0233 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0250 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0248 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0244 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0242 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0240 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0238 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0236 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0234 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0232 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0230 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0226 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0223 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0219 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0218 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0216 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0214 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0211 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0209 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0208 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0206 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0203 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0202 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0200 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0199 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0196 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0192 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0191 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0189 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0188 - accuracy: 0.99 - ETA: 59s - loss: 0.0187 - accuracy: 0.9976 - ETA: 59s - loss: 0.0202 - accuracy: 0.997 - ETA: 59s - loss: 0.0201 - accuracy: 0.997 - ETA: 58s - loss: 0.0199 - accuracy: 0.997 - ETA: 5 8s - loss: 0.0198 - accuracy: 0.997 - ETA: 57s - loss: 0.0197 - accuracy: 0.997 - ETA: 57s - loss: 0.0196 - accuracy: 0.997 - ETA: 57s - loss: 0.0194 - accuracy: 0.997 - ETA: 56s - loss: 0.0193 - accuracy: 0.997 - ETA: 56s - loss: 0.0207 - accuracy: 0.997 - ETA: 55s loss: 0.0206 - accuracy: 0.997 - ETA: 55s - loss: 0.0205 - accuracy: 0.997 - ETA: 54s - loss: 0.0203 - accuracy: 0.997 - ETA: 54s - l oss: 0.0202 - accuracy: 0.997 - ETA: 54s - loss: 0.0201 - accuracy: 0.997 - ETA: 54s - loss: 0.0200 - accuracy: 0.997 - ETA: 53s - los s: 0.0199 - accuracy: 0.997 - ETA: 53s - loss: 0.0198 - accuracy: 0.997 - ETA: 53s - loss: 0.0197 - accuracy: 0.997 - ETA: 54s - loss: 0.0196 - accuracy: 0.997 - ETA: 54s - loss: 0.0195 - accuracy: 0.997 - ETA: 55s - loss: 0.0194 - accuracy: 0.997 - ETA: 55s - loss: 0.

```
0193 - accuracy: 0.997 - ETA: 54s - loss: 0.0192 - accuracy: 0.997 - ETA: 54s - loss: 0.0190 - accuracy: 0.997 - ETA: 55s - loss: 0.0187 - accuracy: 0.997 - ETA: 55s - loss: 0.0187 - accuracy: 0.997 - ETA: 54s - loss: 0.0187
- accuracy: 0.997 - ETA: 54s - loss: 0.0186 - accuracy: 0.997 - ETA: 54s - loss: 0.0185 - accuracy: 0.997 - ETA: 53s - loss: 0.0184 - accuracy: 0.997 - ETA: 53s - loss: 0.0183 - accuracy: 0.997 - ETA: 53s - loss: 0.0181 - a
ccuracy: 0.997 - ETA: 53s - loss: 0.0180 - accuracy: 0.997 - ETA: 52s - loss: 0.0179 - accuracy: 0.997 - ETA: 52s - loss: 0.0178 - acc
uracy: 0.997 - ETA: 51s - loss: 0.0177 - accuracy: 0.997 - ETA: 51s - loss: 0.0176 - accuracy: 0.997 - ETA: 51s - loss: 0.0175 - accuracy: 0.997 - ETA: 51s - loss: 0.0174 - accuracy: 0.997 - ETA: 51s - loss: 0.0174 - accuracy: 0.997 - ETA: 51s - loss: 0.0172 - accuracy: 0.997 - ETA: 51s - loss: 0.0171 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51s - loss: 0.0170 - accuracy: 0.997 - ETA: 51
0.997 - ETA: 51s - loss: 0.0169 - accuracy: 0.997 - ETA: 51s - loss: 0.0169 - accuracy: 0.997 - ETA: 50s - loss: 0.0168 - accuracy: 0.
997 - ETA: 50s - loss: 0.0179 - accuracy: 0.997 - ETA: 50s - loss: 0.0178 - accuracy: 0.997 - ETA: 50s - loss: 0.0177 - accuracy: 0.99
7 - ETA: 49s - loss: 0.0177 - accuracy: 0.997 - ETA: 49s - loss: 0.0176 - accuracy: 0.997 - ETA: 49s - loss: 0.0175 - accuracy: 0.9978
322/322 [============================] - ETA: 48s - loss: 0.0174 - accuracy: 0.997 - ETA: 48s - loss: 0.0173 - accuracy: 0.997 - ET
A: 48s - loss: 0.0173 - accuracy: 0.997 - ETA: 47s - loss: 0.0172 - accuracy: 0.997 - ETA: 47s - loss: 0.0171 - accuracy: 0.997 - ETA:
47s - loss: 0.0170 - accuracy: 0.997 - ETA: 47s - loss: 0.0170 - accuracy: 0.997 - ETA: 46s - loss: 0.0169 - accuracy: 0.997 - ETA: 46
s - loss: 0.0168 - accuracy: 0.997 - ETA: 46s - loss: 0.0168 - accuracy: 0.997 - ETA: 46s - loss: 0.0167 - accuracy: 0.997 - ETA: 47s
  - loss: 0.0166 - accuracy: 0.997 - ETA: 47s - loss: 0.0165 - accuracy: 0.998 - ETA: 47s - loss: 0.0165 - accuracy: 0.998 - ETA: 47s -
loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0163 - accuracy: 0.998 - ETA: 46s - loss: 0.0163 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - ETA: 46s - loss: 0.0164 - accuracy: 0.998 - accuracy: 0.998 - accuracy: 0.998
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s: 0.0160 - accuracy: 0.998 - ETA: 45s - loss: 0.0159 - accuracy: 0.998 - ETA: 45s - loss: 0.0159 - accuracy: 0.998 - ETA: 45s - loss:
0.0158 - accuracy: 0.998 - ETA: 45s - loss: 0.0168 - accuracy: 0.997 - ETA: 45s - loss: 0.0167 - accuracy: 0.997 - ETA: 44s - loss: 0.
0167 - accuracy: 0.997 - ETA: 44s - loss: 0.0166 - accuracy: 0.998 - ETA: 44s - loss: 0.0165 - accuracy: 0.998 - ETA: 43s - loss: 0.01
65 - accuracy: 0.998 - ETA: 43s - loss: 0.0164 - accuracy: 0.998 - ETA: 43s - loss: 0.0173 - accuracy: 0.997 - ETA: 42s - loss: 0.0182
- accuracy: 0.997 - ETA: 42s - loss: 0.0182 - accuracy: 0.997 - ETA: 42s - loss: 0.0181 - accuracy: 0.997 - ETA: 41s - loss: 0.0189 -
accuracy: 0.997 - ETA: 41s - loss: 0.0189 - accuracy: 0.997 - ETA: 41s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - loss: 0.0188 - accuracy: 0.997 - ETA: 40s - accuracy: 0.997 - ETA: 40
uracy: 0.997 - ETA: 39s - loss: 0.0187 - accuracy: 0.997 - ETA: 38s - loss: 0.0187 - accuracy: 0.997 - ETA: 37s - loss: 0.0200 - accuracy: 0.997 - ETA: 37s - loss: 0.0200 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37s - loss: 0.0199 - accuracy: 0.997 - ETA: 37
y: 0.997 - ETA: 36s - loss: 0.0199 - accuracy: 0.997 - ETA: 36s - loss: 0.0198 - accuracy: 0.997 - ETA: 35s - loss: 0.0198 - accuracy:
0.997 - ETA: 35s - loss: 0.0204 - accuracy: 0.997 - ETA: 35s - loss: 0.0204 - accuracy: 0.997 - ETA: 34s - loss: 0.0203 - accuracy: 0.
997 - ETA: 34s - loss: 0.0203 - accuracy: 0.997 - ETA: 33s - loss: 0.0203 - accuracy: 0.997 - ETA: 33s - loss: 0.0202 - accuracy: 0.99
7 - ETA: 32s - loss: 0.0202 - accuracy: 0.997 - ETA: 32s - loss: 0.0201 - accuracy: 0.997 - ETA: 31s - loss: 0.0201 - accuracy: 0.997
  - ETA: 31s - loss: 0.0200 - accuracy: 0.997 - ETA: 31s - loss: 0.0200 - accuracy: 0.997 - ETA: 30s - loss: 0.0206 - accuracy: 0.997 -
ETA: 30s - loss: 0.0205 - accuracy: 0.997 - ETA: 30s - loss: 0.0205 - accuracy: 0.997 - ETA: 29s - loss: 0.0204 - accuracy: 0.997 - ETA
A: 29s - loss: 0.0204 - accuracy: 0.997 - ETA: 28s - loss: 0.0203 - accuracy: 0.997 - ETA: 28s - loss: 0.0203 - accuracy: 0.997 - ETA:
27s - loss: 0.0202 - accuracy: 0.997 - ETA: 27s - loss: 0.0201 - accuracy: 0.997 - ETA: 27s - loss: 0.0201 - accuracy: 0.997 - ETA: 26
s - loss: 0.0200 - accuracy: 0.997 - ETA: 26s - loss: 0.0200 - accuracy: 0.997 - ETA: 25s - loss: 0.0199 - accuracy: 0.997 - ETA: 25s
 - loss: 0.0198 - accuracy: 0.997 - ETA: 25s - loss: 0.0198 - accuracy: 0.997 - ETA: 24s - loss: 0.0197 - accuracy: 0.997 - ETA: 24s -
loss: 0.0197 - accuracy: 0.997 - ETA: 23s - loss: 0.0196 - accuracy: 0.997 - ETA: 23s - loss: 0.0195 - accuracy: 0.997 - ETA: 22s - lo
ss: 0.0195 - accuracy: 0.997 - ETA: 22s - loss: 0.0194 - accuracy: 0.997 - ETA: 22s - loss: 0.0193 - accuracy: 0.997 - ETA: 21s - los
s: 0.0193 - accuracy: 0.997 - ETA: 21s - loss: 0.0192 - accuracy: 0.997 - ETA: 20s - loss: 0.0192 - accuracy: 0.997 - ETA: 20s - loss:
0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0190 - accuracy: 0.997 - ETA: 19s - loss: 0.0190 - accuracy: 0.997 - ETA: 19s - loss: 0.
0189 - accuracy: 0.997 - ETA: 18s - loss: 0.0197 - accuracy: 0.997 - ETA: 18s - loss: 0.0203 - accuracy: 0.997 - ETA: 17s - loss: 0.02
03 - accuracy: 0.997 - ETA: 17s - loss: 0.0202 - accuracy: 0.997 - ETA: 16s - loss: 0.0202 - accuracy: 0.997 - ETA: 16s - loss: 0.0201
- accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 15s - loss: 0.0200 - accuracy: 0.997 - ETA: 15s - loss: 0.0200 -
 accuracy: 0.997 - ETA: 14s - loss: 0.0199 - accuracy: 0.997 - ETA: 14s - loss: 0.0199 - accuracy: 0.997 - ETA: 13s - loss: 0.0198 - a
ccuracy: 0.997 - ETA: 13s - loss: 0.0198 - accuracy: 0.997 - ETA: 13s - loss: 0.0197 - accuracy: 0.997 - ETA: 12s - loss: 0.0196 - acc
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acy: 0.997 - ETA: 11s - loss: 0.0194 - accuracy: 0.997 - ETA: 10s - loss: 0.0194 - accuracy: 0.997 - ETA: 10s - loss: 0.0193 - accuracy
y: 0.997 - ETA: 9s - loss: 0.0193 - accuracy: 0.997 - ETA: 9s - loss: 0.0199 - accuracy: 0.99 - ETA: 8s - loss: 0.0198 - accuracy: 0.99 - ETA: 8s - loss: 0.0198 - accuracy: 0.99 - ETA: 8s - loss: 0.0197 - accuracy: 0.99 - ETA: 7s - loss: 0.0197 - accuracy: 0.99 - ETA:
7s - loss: 0.0196 - accuracy: 0.99 - ETA: 6s - loss: 0.0196 - accuracy: 0.99 - ETA: 6s - loss: 0.0195 - accuracy: 0.99 - ETA: 5s - los
s: 0.0195 - accuracy: 0.99 - ETA: 5s - loss: 0.0194 - accuracy: 0.99 - ETA: 5s - loss: 0.0194 - accuracy: 0.99 - ETA: 4s - loss: 0.019
9 - accuracy: 0.99 - ETA: 4s - loss: 0.0199 - accuracy: 0.99 - ETA: 3s - loss: 0.0198 - accuracy: 0.99 - ETA: 3s - loss: 0.0198 - accu
racy: 0.99 - ETA: 3s - loss: 0.0197 - accuracy: 0.99 - ETA: 2s - loss: 0.0197 - accuracy: 0.99 - ETA: 2s - loss: 0.0196 - accuracy: 0.99 - ETA: 1s - loss: 0.0202 - accuracy: 0.99 - ETA: 1s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0201 - accuracy: 0.99 - ETA: 0.90 - ETA: 0.90 - loss: 0.0201 - accuracy: 0.99 - ETA: 0.90 - loss: 0.0201 - accuracy: 0.99 - ETA: 0.90 - loss: 0.0201 - accuracy: 0.99 - ETA: 0.90 - loss: 0.0201 - accuracy: 0.99 - ETA: 0.90 - loss: 0.0201 - accuracy: 0.99 - ETA: 0.90 - loss: 0.0201 - accuracy: 0.90 - loss: 0.0201 - accura
A: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - 149s 462ms/step - loss: 0.0200 - accuracy: 0.9975 -
  val_loss: 0.0230 - val_accuracy: 0.9968
Enoch 44/50
186/322 [=======>: .............] - ETA: 0s - loss: 0.0054 - accuracy: 1.00 - ETA: 32s - loss: 0.0054 - accuracy: 1.000 - ETA:
  46s - loss: 0.0053 - accuracy: 1.000 - ETA: 1:20 - loss: 0.0053 - accuracy: 1.00 - ETA: 1:40 - loss: 0.0052 - accuracy: 1.00 - ETA:
  1:46 - loss: 0.0051 - accuracy: 1.00 - ETA: 1:54 - loss: 0.0050 - accuracy: 1.00 - ETA: 2:03 - loss: 0.0049 - accuracy: 1.00 - ETA:
  2:06 - loss: 0.0261 - accuracy: 0.99 - ETA: 2:10 - loss: 0.0239 - accuracy: 0.99 - ETA: 2:14 - loss: 0.0222 - accuracy: 0.99 - ETA:
  2:13 - loss: 0.0208 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0196 - accuracy: 0.99 - ETA: 2:09 - loss: 0.0186 - accuracy: 0.99 - ETA:
```

2:12 - loss: 0.0177 - accuracy: 0.99 - ETA: 2:18 - loss: 0.0169 - accuracy: 0.99 - ETA: 2:18 - loss: 0.0162 - accuracy: 0.99 - ETA: 2:21 - loss: 0.0156 - accuracy: 0.99 - ETA: 2:27 - loss: 0.0150 - accuracy: 0.99 - ETA: 2:23 - loss: 0.0144 - accuracy: 0.99 - ETA: 2:24 - loss: 0.0139 - accuracy: 0.99 - ETA: 2:27 - loss: 0.0135 - accuracy: 0.99 - ETA: 2:27 - loss: 0.0130 - accuracy: 0.99 - ETA: 2:24 - loss: 0.0126 - accuracy: 0.99 - ETA: 2:22 - loss: 0.0123 - accuracy: 0.99 - ETA: 2:25 - loss: 0.0119 - accuracy: 0.99 - ETA: 2:25 - loss: 0.0116 - accuracy: 0.99 - ETA: 2:27 - loss: 0.0113 - accuracy: 0.99 - ETA: 2:29 - loss: 0.0110 - accuracy: 0.99 - ETA: 2:29 - loss: 0.0107 - accuracy: 0.99 - ETA: 2:27 - loss: 0.0105 - accuracy: 0.99 - ETA: 2:26 - loss: 0.0102 - accuracy: 0.99 - ETA: 2:27 - loss: 0.0100 - accuracy: 0.99 - ETA: 2:27 - loss: 0.0098 - accuracy: 0.99 - ETA: 2:25 - loss: 0.0096 - accuracy: 0.99 - ETA: 2:23 - loss: 0.0094 - accuracy: 0.99 - ETA: 2:23 - loss: 0.0146 - accuracy: 0.99 - ETA: 2:23 - loss: 0.0143 - accuracy: 0.99 - ETA: 2:23 - loss: 0.0140 - accuracy: 0.99 - ETA: 2:30 - loss: 0.0190 - accuracy: 0.99 - ETA: 2:34 - loss: 0.0186 - accuracy: 0.99 - ETA: 2:33 - loss: 0.0183 - accuracy: 0.99 - ETA: 2:32 - loss: 0.0222 - accuracy: 0.99 - ETA: 2:31 - loss: 0.0218 - accuracy: 0.99 - ETA: 2:32 - loss: 0.0215 - accuracy: 0.99 - ETA: 2:33 - loss: 0.0213 - accuracy: 0.99 - ETA: 2:41 - loss: 0.0210 - accuracy: 0.99 - ETA: 2:43 - loss: 0.0207 - accuracy: 0.99 - ETA: 2:40 - loss: 0.0204 - accuracy: 0.99 - ETA: 2:40 - loss: 0.0202 - accuracy: 0.99 - ETA: 2:39 - loss: 0.0199 - accuracy: 0.99 - ETA: 2:38 - loss: 0.0196 - accuracy: 0.99 - ETA: 2:39 - loss: 0.0194 - accuracy: 0.99 - ETA: 2:38 - loss: 0.0191 - accuracy: 0.99 - ETA: 2:37 - loss: 0.0189 - accuracy: 0.99 - ETA: 2:38 - loss: 0.0186 - accuracy: 0.99 - ETA: 2:37 - loss: 0.0184 - accuracy: 0.99 - ETA: 2:36 - loss: 0.0182 - accuracy: 0.99 - ETA: 2:35 - loss: 0.0180 - accuracy: 0.99 - ETA: 2:36 - loss: 0.0177 - accuracy: 0.99 - ETA: 2:37 - loss: 0.0175 - accuracy: 0.99 - ETA: 2:37 - loss: 0.0173 - accuracy: 0.99 - ETA: 2:36 - loss: 0.0171 - accuracy: 0.99 - ETA: 2:35 - loss: 0.0169 - accuracy: 0.99 - ETA: 2:34 - loss: 0.0167 - accuracy: 0.99 - ETA: 2:34 - loss: 0.0165 - accuracy: 0.99 - ETA: 2:34 - loss: 0.0163 - accuracy: 0.99 - ETA: 2:33 - loss: 0.0161 - accuracy: 0.99 - ETA: 2:32 - loss: 0.0159 - accuracy: 0.99 - ETA: 2:32 - loss: 0.0157 - accuracy: 0.99 - ETA: 2:32 - loss: 0.0156 - accuracy: 0.99 - ETA: 2:32 - loss: 0.0154 - accuracy: 0.99 - ETA: 2:31 - loss: 0.0152 - accuracy: 0.99 - ETA: 2:30 - loss: 0.0150 - accuracy: 0.99 - ETA: 2:29 - loss: 0.0149 - accuracy: 0.99 - ETA: 2:30 - loss: 0.0147 - accuracy: 0.99 - ETA: 2:30 - loss: 0.0146 - accuracy: 0.99 - ETA: 2:30 - loss: 0.0144 - accuracy: 0.99 - ETA: 2:30 - loss: 0.0143 - accuracy: 0.99 - ETA: 2:29 - loss: 0.0141 - accuracy: 0.99 - ETA: 2:29 - loss: 0.0140 - accuracy: 0.99 - ETA: 2:30 - loss: 0.0138 - accuracy: 0.99 - ETA: 2:31 - loss: 0.0137 - accuracy: 0.99 - ETA: 2:30 - loss: 0.0135 - accuracy: 0.99 - ETA: 2:29 - loss: 0.0134 - accuracy: 0.99 - ETA: 2:30 - loss: 0.0133 - accuracy: 0.99 - ETA: 2:29 - loss: 0.0132 - accuracy: 0.99 - ETA: 2:29 - loss: 0.0130 - accuracy: 0.99 - ETA: 2:29 - loss: 0.0129 - accuracy: 0.99 - ETA: 2:27 - loss: 0.0128 - accuracy: 0.99 - ETA: 2:27 - loss: 0.0127 - accuracy: 0.99 - ETA: 2:26 - loss: 0.0126 - accuracy: 0.99 -2:25 - loss: 0.0124 - accuracy: 0.99 - ETA: 2:24 - loss: 0.0123 - accuracy: 0.99 - ETA: 2:23 - loss: 0.0121 - accuracy: 0.99 - ETA: 2:22 - loss: 0.0120 - accuracy: 0.99 - ETA: 2:21 - loss: 0.0119 - accuracy: 0.99 - ETA: 2:25 - loss: 0.0121 - accuracy: 0.99 - ETA: 2:25 - loss: 0.0125 - accuracy: 0.99 - ETA: 2:26 - loss: 0.0126 - accuracy: 0.99 - ETA: 2:27 - loss: 0.0127 - accuracy: 0.99 - ETA: 2:28 - loss: 0.0128 - accuracy: 0.99 - ETA: 2:29 - loss: 0.0129 - accuracy: 0.99 - ETA: 2:29 - loss: 0.0129 - accuracy: 0.99 - ETA: 2:29 - loss: 0.0129 - accuracy: 0.99 - ETA: 2:21 - loss: 0.0129 - accuracy: 0.99 - accuracy:

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  2:17 - loss: 0.0113 - accuracy: 0.99 - ETA: 2:16 - loss: 0.0112 - accuracy: 0.99 - ETA: 2:15 - loss: 0.0111 - accuracy: 0.99 - ETA:
  2:15 - loss: 0.0110 - accuracy: 0.99 - ETA: 2:14 - loss: 0.0109 - accuracy: 0.99 - ETA: 2:13 - loss: 0.0108 - accuracy: 0.99 - ETA:
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  2:09 - loss: 0.0124 - accuracy: 0.99 - ETA: 2:08 - loss: 0.0141 - accuracy: 0.99 - ETA: 2:08 - loss: 0.0140 - accuracy: 0.99 - ETA:
  2:07 - loss: 0.0139 - accuracy: 0.99 - ETA: 2:06 - loss: 0.0138 - accuracy: 0.99 - ETA: 2:06 - loss: 0.0138 - accuracy: 0.99 - ETA:
  2:06 - loss: 0.0137 - accuracy: 0.99 - ETA: 2:05 - loss: 0.0136 - accuracy: 0.99 - ETA: 2:04 - loss: 0.0135 - accuracy: 0.99 - ETA:
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  2:01 - loss: 0.0132 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0131 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0131 - accuracy: 0.99 - ETA:
  1:58 - loss: 0.0130 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0145 - accuracy: 0.99 - ETA: 1:56 - loss: 0.0144 - accuracy: 0.99 - ETA:
  1:56 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:55 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:55 - loss: 0.0142 - accuracy: 0.99 - ETA:
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  1:48 - loss: 0.0137 - accuracy: 0.99 - ETA: 1:48 - loss: 0.0136 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0136 - accuracy: 0.99 - ETA:
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  1:30 - loss: 0.0142 - accuracy: 0.99 - ETA: 1:29 - loss: 0.0142 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0141 - accuracy: 0.99 - ETA:
  1:28 - loss: 0.0151 - accuracy: 0.99 - ETA: 1:27 - loss: 0.0151 - accuracy: 0.99 - ETA: 1:26 - loss: 0.0150 - accuracy: 0.99 - ETA:
 1:26 - loss: 0.0150 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0149 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0149 - accuracy: 0.99 - ETA: 1:23 - loss: 0.0148 - accuracy: 0.99 - ETA: 1:23 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:22 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0147 - 
 1:21 - loss: 0.0146 - accuracy: 0.9983322/322 [===========] - ETA: 1:20 - loss: 0.0146 - accuracy: 0.99 - ETA: 1:2
0 - loss: 0.0145 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0145 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0144 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0144 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0144 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0143 - accuracy: 0.99 - ETA: 0.0143 - accuracy: 0.99 - ETA: 0.0143 - accuracy: 0.99 - ETA: 0.0143 
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43 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0143 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0142 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0142
 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0141 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0141 - accuracy: 0.99 - ETA: 59s - loss: 0.0149 - a
ccuracy: 0.9983 - ETA: 59s - loss: 0.0149 - accuracy: 0.998 - ETA: 58s - loss: 0.0148 - accuracy: 0.998 - ETA: 57s - loss: 0.0148 - ac
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ó.998 - ETA: 49s - loss: 0.0149 - accuracy: ó.998 - ETA: 48s - loss: 0.0149 - accuracy: ó.998 - ETA: 47s - loss: 0.0156 - accuracy: ó.
998 - ETA: 47s - loss: 0.0156 - accuracy: 0.998 - ETA: 46s - loss: 0.0163 - accuracy: 0.998 - ETA: 46s - loss: 0.0163 - accuracy: 0.99
8 - ETA: 45s - loss: 0.0162 - accuracy: 0.998 - ETA: 44s - loss: 0.0162 - accuracy: 0.998 - ETA: 44s - loss: 0.0160 - accuracy: 0.998 - ETA: 43s - loss: 0.0161 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0.0160 - accuracy: 0.998 - ETA: 42s - loss: 0
ETA: 41s - loss: 0.0161 - accuracy: 0.997 - ETA: 41s - loss: 0.0166 - accuracy: 0.998 - ETA: 40s - loss: 0.0173 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 39s - loss: 0.0172 - accuracy: 0.997 - ETA: 30s - loss: 0.0172 - accuracy: 0.997 - ETA: 30s - loss: 0.0172 - accuracy: 0.997 - ETA: 30s - loss: 0.0172 - accuracy: 0.997 - ETA: 30s - loss: 0.017
38s - loss: 0.0171 - accuracy: 0.997 - ETA: 37s - loss: 0.0171 - accuracy: 0.997 - ETA: 36s - loss: 0.0171 - accuracy: 0.997 - ETA: 36s - loss: 0.0170 - accuracy: 0.997 - ETA: 35s - loss: 0.0170 - accuracy: 0.997 - ETA: 34s
  - loss: 0.0169 - accuracy: 0.997 - ETA: 34s - loss: 0.0169 - accuracy: 0.997 - ETA: 33s - loss: 0.0168 - accuracy: 0.997 - ETA: 32s -
loss: 0.0168 - accuracy: 0.997 - ETA: 32s - loss: 0.0168 - accuracy: 0.997 - ETA: 31s - loss: 0.0167 - accuracy: 0.998 - ETA: 31s - lo
ss: 0.0167 - accuracy: 0.998 - ETA: 30s - loss: 0.0174 - accuracy: 0.997 - ETA: 30s - loss: 0.0173 - accuracy: 0.997 - ETA: 29s - loss: 0.0180 - accuracy: 0.997 - ETA: 28s - loss: 0.0179 - accuracy: 0.997 - ETA: 27s - loss:
0.0178 - accuracy: 0.997 - ETA: 27s - loss: 0.0178 - accuracy: 0.997 - ETA: 26s - loss: 0.0178 - accuracy: 0.997 - ETA: 26s - loss: 0.
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89 - accuracy: 0.997 - ETA: 23s - loss: 0.0188 - accuracy: 0.997 - ETA: 23s - loss: 0.0194 - accuracy: 0.997 - ETA: 23s - loss: 0.0194
- accuracy: 0.997 - ETA: 22s - loss: 0.0193 - accuracy: 0.997 - ETA: 22s - loss: 0.0193 - accuracy: 0.997 - ETA: 21s - loss: 0.0193 -
  accuracy: 0.997 - ETA: 21s - loss: 0.0193 - accuracy: 0.997 - ETA: 20s - loss: 0.0192 - accuracy: 0.997 - ETA: 20s - loss: 0.0192 - a
ccuracy: 0.997 - ETA: 19s - loss: 0.0192 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 18s - loss: 0.0191 - acc
uracy: 0.997 - ETA: 18s - loss: 0.0191 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 17s - loss: 0.0190 - accur
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0.997 - ETA: 13s - loss: 0.0193 - accuracy: 0.997 - ETA: 13s - loss: 0.0193 - accuracy: 0.997 - ETA: 12s - loss: 0.0192 - accuracy: 0.
997 - ETA: 12s - loss: 0.0192 - accuracy: 0.997 - ETA: 11s - loss: 0.0191 - accuracy: 0.997 - ETA: 11s - loss: 0.0191 - accuracy: 0.99
7 - ETA: 10s - loss: 0.0190 - accuracy: 0.997 - ETA: 9s - loss: 0.0190 - accuracy: 0.997 - ETA: 9s - loss: 0.0189 - accuracy: 0.99 - E
TA: 8s - loss: 0.0189 - accuracy: 0.99 - ETA: 8s - loss: 0.0189 - accuracy: 0.99 - ETA: 7s - loss: 0.0194 - accuracy: 0.99 - ETA: 7s -
loss: 0.0194 - accuracy: 0.99 - ETA: 6s - loss: 0.0193 - accuracy: 0.99 - ETA: 6s - loss: 0.0193 - accuracy: 0.99 - ETA: 5s - loss: 0.
0192 - accuracy: 0.99 - ETA: 5s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0197 - accuracy: 0.99 - ETA: 4s - loss: 0.0197 - a
0.99 - ETA: 3s - loss: 0.0196 - accuracy: 0.99 - ETA: 3s - loss: 0.0201 - accuracy: 0.99 - ETA: 2s - loss: 0.0201 - accuracy: 0.99 - ETA: 2s - loss: 0.0201 - accuracy: 0.99 - ETA: 2s - loss: 0.0201 - accuracy: 0.99 - ETA: 2s - loss: 0.0199 - accuracy: 0.99 - ETA: 1s - loss: 0.0199 - accuracy: 0.99 - ETA: 1s - loss: 0.0199 - accuracy: 0.99 - ETA: 1s - loss: 0.0199 - accuracy: 0.99 - ETA: 1s - loss: 0.0199 - accuracy: 0.99 - ETA: 1s - loss: 0.0199 - accuracy: 0.99 - ETA: 1s - loss: 0.0199 - accuracy: 0.99 - ETA: 1s - loss: 0.0199 - accuracy: 0.99 - ETA: 1s - loss: 0.0199 - accuracy: 0.99 - ETA: 1s - loss: 0.0199 - accuracy: 0.99 - ETA: 1s - loss: 0.0199 - accuracy: 0.99 - ETA: 1s - loss: 0.0199 - accuracy: 0.99 - ETA: 1s - loss: 0.0199 - accuracy: 0.99 - ETA: 1s - loss: 0.0199 - accuracy: 0.99 - ETA: 1s - loss: 0.0199 - accuracy: 0.99 - ETA: 1s - loss: 0.0199 - accuracy: 0.99 - ETA: 1s - loss: 0.0199 - accuracy: 0.99 - ETA: 1s - loss: 0.0199 - accuracy: 0.99 - ETA: 1s - loss: 0.0199 - accuracy: 0.99 - ETA: 0.0
TA: 0s - loss: 0.0199 - accuracy: 0.99 - ETA: 0s - loss: 0.0199 - accuracy: 0.99 - ETA: 0s - loss: 0.0198 - accuracy: 0.99 - 163s 506m s/step - loss: 0.0198 - accuracy: 0.9975 - val_loss: 0.0232 - val_accuracy: 0.9968
Fnoch 45/50
186/322 [=========>.......] - ETA: 0s - loss: 0.0060 - accuracy: 1.00 - ETA: 58s - loss: 0.0059 - accuracy: 1.000 - ETA:
  1:23 - loss: 0.0059 - accuracy: 1.00 - ETA: 1:30 - loss: 0.0057 - accuracy: 1.00 - ETA: 1:46 - loss: 0.0056 - accuracy: 1.00 - ETA:
  1:42 - loss: 0.0055 - accuracy: 1.00 - ETA: 1:42 - loss: 0.0054 - accuracy: 1.00 - ETA: 1:46 - loss: 0.0053 - accuracy: 1.00 - ETA:
  1:55 - loss: 0.0052 - accuracy: 1.00 - ETA: 1:55 - loss: 0.0051 - accuracy: 1.00 - ETA: 1:54 - loss: 0.0050 - accuracy: 1.00 - ETA:
  1:49 - loss: 0.0049 - accuracy: 1.00 - ETA: 1:56 - loss: 0.0048 - accuracy: 1.00 - ETA: 1:56 - loss: 0.0048 - accuracy: 1.00 - ETA:
  1:53 - loss: 0.0178 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0169 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0275 - accuracy: 0.99 - ETA:
  1:51 - loss: 0.0263 - accuracy: 0.99 - ETA: 1:52 - loss: 0.0252 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0242 - accuracy: 0.99 - ETA:
  1:53 - loss: 0.0234 - accuracy: 0.99 - ETA: 1:54 - loss: 0.0226 - accuracy: 0.99 - ETA: 1:53 - loss: 0.0219 - accuracy: 0.99 - ETA:
  1:51 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0206 - accuracy: 0.99 - ETA: 1:52 - loss: 0.0201 - accuracy: 0.99 - ETA:
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1:53 - loss: 0.0260 - accuracy: 0.99 - ETA: 1:52 - loss: 0.0253 - accuracy: 0.99 - ETA: 1:52 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:55 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:55 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:55 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:55 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:55 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:55 - loss: 0.0218 - accuracy: 0.99 - ETA: 1:55 - loss: 0.0218 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0209 - accuracy: 0.99 - ETA: 2:06 - loss: 0.0250 - accuracy: 0.99 - ETA: 2:04 - loss: 0.0246 - accuracy: 0.99 - ETA: 2:04 - loss: 0.0268 -

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2:03 - loss: 0.0256 - accuracy: 0.99 - ETA: 2:03 - loss: 0.0252 - accuracy: 0.99 - ETA: 2:03 - loss: 0.0248 - accuracy: 0.99 - ETA:
2:04 - loss: 0.0244 - accuracy: 0.99 - ETA: 2:05 - loss: 0.0240 - accuracy: 0.99 - ETA: 2:04 - loss: 0.0237 - accuracy: 0.99 - ETA:
2:03 - loss: 0.0233 - accuracy: 0.99 - ETA: 2:02 - loss: 0.0230 - accuracy: 0.99 - ETA: 2:02 - loss: 0.0226 - accuracy: 0.99 - ETA:
2:02 - loss: 0.0223 - accuracy: 0.99 - ETA: 2:01 - loss: 0.0220 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0216 - accuracy: 0.99 - ETA:
1:58 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:57 - loss: 0.0207 - accuracy: 0.99 - ETA:
1:55 - loss: 0.0204 - accuracy: 0.99 - ETA: 1:54 - loss: 0.0202 - accuracy: 0.99 - ETA: 1:53 - loss: 0.0199 - accuracy: 0.99 - ETA:
1:52 - loss: 0.0196 - accuracy: 0.99 - ETA: 1:52 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0222 - accuracy: 0.99 - ETA:
1:50 - loss: 0.0219 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0214 - accuracy: 0.99 - ETA:
1:48 - loss: 0.0211 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0209 - accuracy: 0.99 - ETA: 1:46 - loss: 0.0207 - accuracy: 0.99 - ETA:
1:46 - loss: 0.0204 - accuracy: 0.99 - ETA: 1:46 - loss: 0.0202 - accuracy: 0.99 - ETA: 1:45 - loss: 0.0200 - accuracy: 0.99 - ETA:
1:44 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:43 - loss: 0.0222 - accuracy: 0.99 - ETA: 1:42 - loss: 0.0220 - accuracy: 0.99 - ETA:
1:43 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:42 - loss: 0.0215 - accuracy: 0.99 - ETA: 1:41 - loss: 0.0213 - accuracy: 0.99 - ETA:
1:40 - loss: 0.0211 - accuracy: 0.99 - ETA: 1:41 - loss: 0.0209 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0207 - accuracy: 0.99 - ETA:
1:39 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0203 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0201 - accuracy: 0.99 - ETA:
1:39 - loss: 0.0199 - accuracy: 0.99 - ETA: 1:38 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:38 - loss: 0.0195 - accuracy: 0.99 - ETA:
 1:37 - loss: 0.0215 - accuracy: 0.99 - ETA: 1:36 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0212 - accuracy: 0.99 - ETA:
1:35 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0208 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0206 - accuracy: 0.99 - ETA:
1:33 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:33 - loss: 0.0223 - accuracy: 0.99 - ETA: 1:32 - loss: 0.0221 - accuracy: 0.99 - ETA:
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1:30 - loss: 0.0232 - accuracy: 0.99 - ETA: 1:29 - loss: 0.0230 - accuracy: 0.99 - ETA: 1:29 - loss: 0.0229 - accuracy: 0.99 - ETA:
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1:17 - loss: 0.0242 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0240 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0239 - accuracy: 0.99 - ETA:
1:16 - loss: 0.0251 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0261 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0260 - accuracy: 0.99 - ETA:
1:14 - loss: 0.0259 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0258 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0257 - accuracy: 0.99 - ETA:
1:13 - loss: 0.0255 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0254 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0253 - accuracy: 0.99 - ETA:
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1:10 - loss: 0.0248 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0247 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0246 - accuracy: 0.99 - ETA:
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1:03 - loss: 0.0247 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0245 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0244 - accuracy: 0.99 - ETA:
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9s - loss: 0.0232 - accuracy: 0.9969 - ETA: 59s - loss: 0.0231 - accuracy: 0.997 - ETA: 59s - loss: 0.0230 - accuracy: 0.997 - ETA: 58
s - loss: 0.0229 - accuracy: 0.997 - ETA: 58s - loss: 0.0228 - accuracy: 0.997 - ETA: 57s - loss: 0.0227 - accuracy: 0.997 - ETA: 57s
- loss: 0.0226 - accuracy: 0.997 - ETA: 56s - loss: 0.0224 - accuracy: 0.997 - ETA: 56s - loss: 0.0223 - accuracy: 0.997 - ETA: 55s -
loss: 0.0222 - accuracy: 0.997 - ETA: 55s - loss: 0.0221 - accuracy: 0.997 - ETA: 55s - loss: 0.0220 - accuracy: 0.997 - ETA: 54s - lo
0.0217 - accuracy: 0.997 - ETA: 52s - loss: 0.0216 - accuracy: 0.997 - ETA: 52s - loss: 0.0215 - accuracy: 0.997 - ETA: 51s - loss: 0.0214 - accuracy: 0.997 - ETA: 52s - loss: 0.0215 - accuracy: 0.997 - ETA: 51s - loss: 0.0214 - accuracy: 0.997 - ETA: 51s - loss: 0.0215 - accuracy: 0.997 - ETA: 51s - loss: 0.0216 - accuracy: 0.997 - ETA: 51s - loss: 0.0217 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - loss: 0.0218 - accuracy: 0.997 - ETA: 51s - 
0.0211 - accuracy: 0.997 - ETA: 51s - loss: 0.0210 - accuracy: 0.997 - ETA: 50s - loss: 0.0209 - accuracy: 0.997 - ETA: 50s - loss:
0.0208 - accuracy: 0.997 - ETA: 49s - loss: 0.0207 - accuracy: 0.997 - ETA: 49s - loss: 0.0206 - accuracy: 0.997 - ETA: 48s - loss:
0.0205 - accuracy: 0.997 - ETA: 48s - loss: 0.0205 - accuracy: 0.997 - ETA: 47s - loss: 0.0204 - accuracy: 0.997 - ETA: 47s - loss:
0.0214 - accuracy: 0.997 - ETA: 47s - loss: 0.0213 - accuracy: 0.997 - ETA: 46s - loss: 0.0223 - accuracy: 0.997 - ETA: 46s - loss:
0.0222 - accuracy: 0.997 - ETA: 46s - loss: 0.0221 - accuracy: 0.997 - ETA: 45s - loss: 0.0220 - accuracy: 0.997 - ETA: 45s - loss:
0.0219 - accuracy: 0.997 - ETA: 44s - loss: 0.0219 - accuracy: 0.997 - ETA: 44s - loss: 0.0218 - accuracy: 0.997 - ETA: 43s - loss:
0.0217 - accuracy: 0.997 - ETA: 43s - loss: 0.0216 - accuracy: 0.997 - ETA: 43s - loss: 0.0215 - accuracy: 0.997 - ETA: 42s - loss:
0.0215 - accuracy: 0.997 - ETA: 42s - loss: 0.0223 - accuracy: 0.997 - ETA: 41s - loss: 0.0222 - accuracy: 0.997 - ETA: 41s - loss:
0.0229 - accuracy: 0.997 - ETA: 40s - loss: 0.0228 - accuracy: 0.997 - ETA: 40s - loss: 0.0227 - accuracy: 0.997 - ETA: 40s - loss:
0.0227 - accuracy: 0.997 - ETA: 39s - loss: 0.0226 - accuracy: 0.997 - ETA: 39s - loss: 0.0225 - accuracy: 0.997 - ETA: 38s - loss:
0.0224 - accuracy: 0.997 - ETA: 38s - loss: 0.0224 - accuracy: 0.997 - ETA: 38s - loss: 0.0223 - accuracy: 0.997 - ETA: 37s - loss:
0.0222 - accuracy: 0.997 - ETA: 37s - loss: 0.0222 - accuracy: 0.997 - ETA: 36s - loss: 0.0221 - accuracy: 0.997 - ETA: 36s - loss:
0.0220 - accuracy: 0.997 - ETA: 35s - loss: 0.0219 - accuracy: 0.997 - ETA: 35s - loss: 0.0219 - accuracy: 0.997 - ETA: 35s - loss:
0.0218 - accuracy: 0.997 - ETA: 34s - loss: 0.0225 - accuracy: 0.997 - ETA: 34s - loss: 0.0224 - accuracy: 0.997 - ETA: 34s - loss:
0.0223 - accuracy: 0.997 - ETA: 33s - loss: 0.0223 - accuracy: 0.997 - ETA: 33s - loss: 0.0222 - accuracy: 0.997 - ETA: 32s - loss:
0.0221 - accuracy: 0.997 - ETA: 32s - loss: 0.0221 - accuracy: 0.997 - ETA: 31s - loss: 0.0220 - accuracy: 0.997 - ETA: 31s - loss:
0.0219 - accuracy: 0.997 - ETA: 31s - loss: 0.0219 - accuracy: 0.997 - ETA: 30s - loss: 0.0218 - accuracy: 0.997 - ETA: 30s - loss:
0.0217 - accuracy: 0.997 - ETA: 30s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss: 0.0216 - accuracy: 0.997 - ETA: 29s - loss:
0.0223 - accuracy: 0.997 - ETA: 28s - loss: 0.0222 - accuracy: 0.997 - ETA: 28s - loss: 0.0221 - accuracy: 0.997 - ETA: 28s - loss:
0.0220 - accuracy: 0.997 - ETA: 27s - loss: 0.0220 - accuracy: 0.997 - ETA: 27s - loss: 0.0219 - accuracy: 0.997 - ETA: 26s - loss:
0.0218 - accuracy: 0.997 - ETA: 26s - loss: 0.0218 - accuracy: 0.997 - ETA: 26s - loss: 0.0217 - accuracy: 0.997 - ETA: 25s - loss:
0.0216 - accuracy: 0.997 - ETA: 25s - loss: 0.0216 - accuracy: 0.997 - ETA: 24s - loss: 0.0215 - accuracy: 0.997 - ETA: 24s - loss:
0.0214 - accuracy: 0.997 - ETA: 24s - loss: 0.0213 - accuracy: 0.997 - ETA: 23s - loss: 0.0213 - accuracy: 0.997 - ETA: 23s - loss:
0.0212 - accuracy: 0.997 - ETA: 22s - loss: 0.0211 - accuracy: 0.997 - ETA: 22s - loss: 0.0211 - accuracy: 0.997 - ETA: 22s - loss:
0.0210 - accuracy: 0.997 - ETA: 21s - loss: 0.0209 - accuracy: 0.997 - ETA: 21s - loss: 0.0209 - accuracy: 0.997 - ETA: 20s - loss:
0.0208 - accuracy: 0.997 - ETA: 20s - loss: 0.0215 - accuracy: 0.997 - ETA: 20s - loss: 0.0214 - accuracy: 0.997 - ETA: 19s - loss:
0.0221 - accuracy: 0.997 - ETA: 19s - loss: 0.0220 - accuracy: 0.997 - ETA: 18s - loss: 0.0220 - accuracy: 0.997 - ETA: 18s - loss:
0.0219 - accuracy: 0.997 - ETA: 18s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss: 0.0218 - accuracy: 0.997 - ETA: 17s - loss:
0.0217 - accuracy: 0.997 - ETA: 16s - loss: 0.0217 - accuracy: 0.997 - ETA: 16s - loss: 0.0216 - accuracy: 0.997 - ETA: 16s - loss:
0.0215 - accuracy: 0.997 - ETA: 15s - loss: 0.0215 - accuracy: 0.997 - ETA: 15s - loss: 0.0214 - accuracy: 0.997 - ETA: 14s - loss:
0.0214 - accuracy: 0.997 - ETA: 14s - loss: 0.0213 - accuracy: 0.997 - ETA: 14s - loss: 0.0212 - accuracy: 0.997 - ETA: 13s - loss:
0.0212 - accuracy: 0.997 - ETA: 13s - loss: 0.0211 - accuracy: 0.997 - ETA: 13s - loss: 0.0211 - accuracy: 0.997 - ETA: 12s - loss:
0.0210 - accuracy: 0.997 - ETA: 12s - loss: 0.0209 - accuracy: 0.997 - ETA: 11s - loss: 0.0209 - accuracy: 0.997 - ETA: 11s - loss:
0.0208 - accuracy: 0.997 - ETA: 10s - loss: 0.0208 - accuracy: 0.997 - ETA: 10s - loss: 0.0207 - accuracy: 0.997 - ETA: 10s - loss:
0.0206 - accuracy: 0.997 - ETA: 9s - loss: 0.0206 - accuracy: 0.997 - ETA: 9s - loss: 0.0205 - accuracy: 0.99 - ETA: 8s - loss: 0.020
5 - accuracy: 0.99 - ETA: 8s - loss: 0.0204 - accuracy: 0.99 - ETA: 8s - loss: 0.0203 - accuracy: 0.99 - ETA: 7s - loss: 0.0203 - accu
racy: 0.99 - ETA: 7s - loss: 0.0202 - accuracy: 0.99 - ETA: 6s - loss: 0.0202 - accuracy: 0.99 - ETA: 6s - loss: 0.0201 - accuracy: 0.
99 - ETA: 6s - loss: 0.0201 - accuracy: 0.99 - ETA: 5s - loss: 0.0200 - accuracy: 0.99 - ETA: 5s - loss: 0.0199 - accuracy: 0.99 - ET
A: 5s - loss: 0.0199 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 4s - loss: 0.0198 - accuracy: 0.99 - ETA: 3s -
loss: 0.0197 - accuracy: 0.99 - ETA: 3s - loss: 0.0197 - accuracy: 0.99 - ETA: 3s - loss: 0.0196 - accuracy: 0.99 - ETA: 2s - loss: 0.0202 - accuracy: 0.99 - ETA: 1s - loss: 0.0202 - accuracy: 0.99 - ETA: 1s - loss: 0.0201
```

```
- accuracy: 0.99 - ETA: 1s - loss: 0.0201 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0199 - accuracy: 0.99 - 126s 393ms/step - loss: 0.0199 - accuracy: 0.9975 - val_loss: 0.0241 - val_accur
acy: 0.9968
Epoch 46/50
186/322 [==========>......] - ETA: 0s - loss: 0.0033 - accuracy: 1.00 - ETA: 33s - loss: 0.1068 - accuracy: 0.984 - ETA:
  43s - loss: 0.0724 - accuracy: 0.989 - ETA: 48s - loss: 0.0553 - accuracy: 0.992 - ETA: 53s - loss: 0.0451 - accuracy: 0.993 - ETA: 5
8s - loss: 0.0383 - accuracy: 0.994 - ETA: 59s - loss: 0.0596 - accuracy: 0.991 - ETA: 1:00 - loss: 0.0528 - accuracy: 0.99 - ETA: 1:0
1 - loss: 0.0475 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0432 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0398 - accuracy: 0.99 - ETA: 1:21
    - loss: 0.0369 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0345 - accuracy: 0.99 - ETA: 2:03 - loss: 0.0450 - accuracy: 0.99 - ETA: 2:03 -
loss: 0.0423 - accuracy: 0.99 - ETA: 2:03 - loss: 0.0401 - accuracy: 0.99 - ETA: 2:05 - loss: 0.0381 - accuracy: 0.99 - ETA: 2:06 - lo
ss: 0.0363 - accuracy: 0.99 - ETA: 2:05 - loss: 0.0347 - accuracy: 0.99 - ETA: 2:04 - loss: 0.0333 - accuracy: 0.99 - ETA: 2:05 - los
 s: 0.0320 - accuracy: 0.99 - ETA: 2:09 - loss: 0.0308 - accuracy: 0.99 - ETA: 2:10 - loss: 0.0297 - accuracy: 0.99 - ETA: 2:10 - loss:
0.0287 - accuracy: 0.99 - ETA: 2:09 - loss: 0.0278 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0269 - accuracy: 0.99 - ETA: 2:05 - loss: 0.
0261 - accuracy: 0.99 - ETA: 2:03 - loss: 0.0315 - accuracy: 0.99 - ETA: 2:02 - loss: 0.0306 - accuracy: 0.99 - ETA: 2:03 - loss: 0.02
98 - accuracy: 0.99 - ETA: 2:03 - loss: 0.0290 - accuracy: 0.99 - ETA: 2:02 - loss: 0.0283 - accuracy: 0.99 - ETA: 2:02 - loss: 0.0276
 - accuracy: 0.99 - ETA: 2:01 - loss: 0.0269 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0263 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0257 -
  accuracy: 0.99 - ETA: 1:56 - loss: 0.0251 - accuracy: 0.99 - ETA: 1:55 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:54 - loss: 0.0241 - a
ccuracy: 0.99 - ETA: 1:55 - loss: 0.0236 - accuracy: 0.99 - ETA: 1:55 - loss: 0.0231 - accuracy: 0.99 - ETA: 1:55 - loss: 0.0226 - acc
uracy: 0.99 - ETA: 2:00 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0261 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0256 - accur
acy: 0.99 - ETA: 1:58 - loss: 0.0251 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:57 - loss: 0.0242 - accuracy
y: 0.99 - ETA: 1:58 - loss: 0.0238 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0234 - accuracy: 0.99 - ETA: 1:57 - loss: 0.0230 - accuracy:
0.99 - ETA: 1:56 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:56 - loss: 0.0223 - accuracy: 0.99 - ETA: 1:56 - loss: 0.0254 - accuracy: 0.
99 - ETA: 1:55 - loss: 0.0250 - accuracy: 0.99 - ETA: 1:54 - loss: 0.0246 - accuracy: 0.99 - ETA: 1:55 - loss: 0.0242 - accuracy: 0.99
 - ETA: 1:54 - loss: 0.0271 - accuracy: 0.99 - ETA: 1:53 - loss: 0.0267 - accuracy: 0.99 - ETA: 1:52 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:53 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 1:50 - loss: 0.
TA: 1:50 - loss: 0.0271 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0268 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0271 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0266 - accuracy: 0.99 - ETA: 1:49 - loss: 0.026
1:48 - loss: 0.0263 - accuracy: 0.99 - ETA: 1:48 - loss: 0.0260 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0257 - accuracy: 0.99 - ETA: 1:46 - loss: 0.0252 - accuracy: 0.99 - ETA: 1:45 - loss: 0.0249 - accuracy: 0.99 - ETA: 1:46 - loss: 0.0252 - accuracy: 0.99 - ETA: 1:45 - loss: 0.0249 - accuracy: 0.99 - ETA: 1:44
- loss: 0.0246 - accuracy: 0.99 - ETA: 1:44 - loss: 0.0244 - accuracy: 0.99 - ETA: 1:43 - loss: 0.0241 - accuracy: 0.99 - ETA: 1:42 - loss: 0.0239 - accuracy: 0.99 - ETA: 1:42 - loss: 0.0236 - accuracy: 0.99 - ETA: 1:41 - loss: 0.0234 - accuracy: 0.99 - ETA: 1:40 - l
oss: 0.0254 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0251 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0249 - accuracy: 0.99 - ETA: 1:38 - los
 s: 0.0246 - accuracy: 0.99 - ETA: 1:38 - loss: 0.0244 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0242 - accuracy: 0.99 - ETA: 1:37 - loss:
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27 - accuracy: 0.99 - ETA: 1:32 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:32 - loss: 0.0223 - accuracy: 0.99 - ETA: 1:32 - loss: 0.0221
 - accuracy: 0.99 - ETA: 1:32 - loss: 0.0219 - accuracy: 0.99 - ETA: 1:32 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:32 - loss: 0.0215 -
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- accuracy: 0.997 - ETA: 55s - loss: 0.0209 - accuracy: 0.997 - ETA: 54s - loss: 0.0209 - accuracy: 0.997 - ETA: 53s - loss: 0.0216 - accuracy: 0.997 - ETA: 53s - loss: 0.0215 - accuracy: 0.997 - ETA: 51s - loss: 0.0214 - accuracy: 0.997 - ETA: 51s - loss: 0.0214 - accuracy: 0.997 - ETA: 51s - loss: 0.0214 - accuracy: 0.997 - ETA: 51s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy: 0.997 - ET
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997 - ETA: 42s - loss: 0.0212 - accuracy: 0.997 - ETA: 42s - loss: 0.0212 - accuracy: 0.997 - ETA: 41s - loss: 0.0211 - accuracy: 0.99
7 - ETA: 41s - loss: 0.0210 - accuracy: 0.997 - ETA: 40s - loss: 0.0210 - accuracy: 0.997 - ETA: 40s - loss: 0.0209 - accuracy: 0.997
  - ETA: 39s - loss: 0.0215 - accuracy: 0.997 - ETA: 39s - loss: 0.0215 - accuracy: 0.997 - ETA: 38s - loss: 0.0214 - accuracy: 0.997 -
ETA: 38s - loss: 0.0214 - accuracy: 0.997 - ETA: 37s - loss: 0.0213 - accuracy: 0.997 - ETA: 37s - loss: 0.0212 - accuracy: 0.997 - ETA
A: 36s - loss: 0.0212 - accuracy: 0.997 - ETA: 36s - loss: 0.0211 - accuracy: 0.997 - ETA: 36s - loss: 0.0210 - accuracy: 0.997 - ETA:
35s - loss: 0.0210 - accuracy: 0.997 - ETA: 35s - loss: 0.0209 - accuracy: 0.997 - ETA: 34s - loss: 0.0208 - accuracy: 0.997 - ETA: 34
s - loss: 0.0208 - accuracy: 0.997 - ETA: 33s - loss: 0.0207 - accuracy: 0.997 - ETA: 32s - loss: 0.0206 - accuracy: 0.997 - ETA: 32s - loss: 0.0206 - accuracy: 0.997 - ETA: 32s - loss: 0.0206 - accuracy: 0.997 - ETA: 30s -
```

loss: 0.0204 - accuracy: 0.997 - ETA: 30s - loss: 0.0203 - accuracy: 0.997 - ETA: 29s - loss: 0.0210 - accuracy: 0.997 - ETA: 29s - loss: 0.0217 - accuracy: 0.997 - ETA: 28s - loss: 0.0216 - accuracy: 0.997 - ETA: 28s - loss: 0.0215 - accuracy: 0.997 - ETA: 27s - los s: 0.0215 - accuracy: 0.997 - ETA: 27s - loss: 0.0214 - accuracy: 0.997 - ETA: 26s - loss: 0.0214 - accuracy: 0.997 - ETA: 26s - loss: 0.0213 - accuracy: 0.997 - ETA: 25s - loss: 0.0212 - accuracy: 0.997 - ETA: 25s - loss: 0.0212 - accuracy: 0.997 - ETA: 24s - loss: 0. 0211 - accuracy: 0.997 - ETA: 24s - loss: 0.0211 - accuracy: 0.997 - ETA: 23s - loss: 0.0210 - accuracy: 0.997 - ETA: 22s - loss: 0.02 10 - accuracy: 0.997 - ETA: 22s - loss: 0.0209 - accuracy: 0.997 - ETA: 22s - loss: 0.0208 - accuracy: 0.997 - ETA: 21s - loss: 0.0208 - accuracy: 0.997 - ETA: 20s - loss: 0.0207 - accuracy: 0.997 - ETA: 20s - loss: 0.0207 - accuracy: 0.997 - ETA: 20s - loss: 0.0213 - accuracy: 0.997 - ETA: 19s - loss: 0.0212 - accuracy: 0.997 - ET ccuracy: 0.997 - ETA: 18s - loss: 0.0211 - accuracy: 0.997 - ETA: 17s - loss: 0.0210 - accuracy: 0.997 - ETA: 17s - loss: 0.0209 - acc uracy: 0.997 - ETA: 16s - loss: 0.0209 - accuracy: 0.997 - ETA: 15s - loss: 0.0208 - accuracy: 0.997 - ETA: 15s - loss: 0.0208 - accur acy: 0.997 - ETA: 14s - loss: 0.0207 - accuracy: 0.997 - ETA: 14s - loss: 0.0207 - accuracy: 0.997 - ETA: 13s - loss: 0.0206 - accurac y: 0.997 - ETA: 13s - loss: 0.0205 - accuracy: 0.997 - ETA: 12s - loss: 0.0205 - accuracy: 0.997 - ETA: 12s - loss: 0.0204 - accuracy: ó.997 - ETA: 11s - loss: 0.0204 - accuracy: ó.997 - ETA: 11s - loss: 0.0203 - accuracy: ó.997 - ETA: 10s - loss: 0.0203 - accuracy: ó. 997 - ETA: 10s - loss: 0.0209 - accuracy: 0.997 - ETA: 9s - loss: 0.0208 - accuracy: 0.997 - ETA: 8s - loss: 0.0207 - accuracy: 0.99 -ETA: 8s - loss: 0.0207 - accuracy: 0.99 - ETA: 7s - loss: 0.0206 - accuracy: 0.99 - ETA: 7s - loss: 0.0206 - accuracy: 0.99 - ETA: 6s - loss: 0.0205 - accuracy: 0.99 - ETA: 6s - loss: 0.0205 - accuracy: 0.99 - ETA: 5s - loss: 0.0204 - accuracy: 0.99 - ETA: 5s - loss: 0.0204 - accuracy: 0.99 - ETA: 4s - loss: 0.0203 - accuracy: 0.99 - ETA: 3s - loss: 0.0203 - accuracy: 0.99 - ETA: 3s - loss: 0.0202 accuracy: 0.99 - ETA: 2s - loss: 0.0201 - accuracy: 0.99 - ETA: 2s - loss: 0.0201 - accuracy: 0.99 - ETA: 1s - loss: 0.0200 - accuracy y: 0.99 - ETA: 1s - loss: 0.0200 - accuracy: 0.99 - ETA: 0s - loss: 0.0199 - accuracy: 0.99 - ETA: 0s - loss: 0.0199 - accuracy: 0.99 - 206s 641ms/step - loss: 0.0199 - accuracy: 0.9975 - val_loss: 0.0234 - val_accuracy: 0.9968

6/322 [......] - ETA: 0s - loss: 0.0028 - accuracy: 1.00 - ETA: 5:05 - loss: 0.0028 - accuracy: 1.00 - ETA: 4:56 - loss: 0.0699 - accuracy: 0.98 - ETA: 5:31 - loss: 0.0532 - accuracy: 0.99 - ETA: 6:19 - loss: 0.0432 - accuracy: 0.99 - ETA: 6:21 - loss: 0.0366 - accuracy: 0.9948WARNING:tensorflow:Method (on_train_batch_end) is slow compared to the batch update (0.668166). Check your callbacks.

8/322 [.....] - ETA: 6:31 - loss: 0.0319 - accuracy: 0.99 - ETA: 6:04 - loss: 0.0284 - accuracy: 0.9961WARN ING:tensorflow:Method (on_train_batch_end) is slow compared to the batch update (0.457616). Check your callbacks. 5:56 - loss: 0.0317 - accuracy: 0.99 - ETA: 6:24 - loss: 0.0422 - accuracy: 0.99 - ETA: 6:22 - loss: 0.0399 - accuracy: 0.99 - ETA: 6: 15 - loss: 0.0379 - accuracy: 0.99 - ETA: 6:17 - loss: 0.0361 - accuracy: 0.99 - ETA: 6:13 - loss: 0.0431 - accuracy: 0.99 - ETA: 6:05 - loss: 0.0413 - accuracy: 0.99 - ETA: 5:56 - loss: 0.0397 - accuracy: 0.99 - ETA: 5:46 - loss: 0.0383 - accuracy: 0.99 - ETA: 5:39 loss: 0.0369 - accuracy: 0.99 - ETA: 5:33 - loss: 0.0357 - accuracy: 0.99 - ETA: 5:26 - loss: 0.0408 - accuracy: 0.99 - ETA: 5:21 - 1 oss: 0.0395 - accuracy: 0.99 - ETA: 5:19 - loss: 0.0383 - accuracy: 0.99 - ETA: 5:13 - loss: 0.0428 - accuracy: 0.99 - ETA: 5:08 - los s: 0.0416 - accuracy: 0.99 - ETA: 5:06 - loss: 0.0406 - accuracy: 0.99 - ETA: 5:01 - loss: 0.0396 - accuracy: 0.99 - ETA: 5:04 - loss: 0.0387 - accuracy: 0.99 - ETA: 5:00 - loss: 0.0378 - accuracy: 0.99 - ETA: 4:54 - loss: 0.0370 - accuracy: 0.99 - ETA: 4:50 - loss: 0. 0361 - accuracy: 0.99 - ETA: 4:51 - loss: 0.0394 - accuracy: 0.99 - ETA: 4:47 - loss: 0.0386 - accuracy: 0.99 - ETA: 4:42 - loss: 0.03 78 - accuracy: 0.99 - ETA: 4:39 - loss: 0.0370 - accuracy: 0.99 - ETA: 4:34 - loss: 0.0363 - accuracy: 0.99 - ETA: 4:30 - loss: 0.0356 - accuracy: 0.99 - ETA: 4:27 - loss: 0.0349 - accuracy: 0.99 - ETA: 4:23 - loss: 0.0342 - accuracy: 0.99 - ETA: 4:19 - loss: 0.0336 accuracy: 0.99 - ETA: 4:15 - loss: 0.0330 - accuracy: 0.99 - ETA: 4:14 - loss: 0.0323 - accuracy: 0.99 - ETA: 4:13 - loss: 0.0318 - a ccuracy: 0.99 - ETA: 4:10 - loss: 0.0312 - accuracy: 0.99 - ETA: 4:08 - loss: 0.0306 - accuracy: 0.99 - ETA: 4:07 - loss: 0.0301 - acc uracy: 0.99 - ETA: 4:03 - loss: 0.0296 - accuracy: 0.99 - ETA: 4:01 - loss: 0.0291 - accuracy: 0.99 - ETA: 3:59 - loss: 0.0286 - accur acy: 0.99 - ETA: 3:58 - loss: 0.0281 - accuracy: 0.99 - ETA: 3:59 - loss: 0.0277 - accuracy: 0.99 - ETA: 3:56 - loss: 0.0272 - accuracy y: 0.99 - ETA: 3:53 - loss: 0.0268 - accuracy: 0.99 - ETA: 3:50 - loss: 0.0264 - accuracy: 0.99 - ETA: 3:48 - loss: 0.0260 - accuracy: ó.99 - ETA: 3:44 - loss: 0.0256 - accuracy: ó.99 - ETA: 3:40 - loss: 0.0252 - accuracy: ó.99 - ETA: 3:38 - loss: 0.0248 - accuracy: ó. 99 - ETA: 3:37 - loss: 0.0245 - accuracy: 0.99 - ETA: 3:36 - loss: 0.0241 - accuracy: 0.99 - ETA: 3:35 - loss: 0.0238 - accuracy: 0.99 - ETA: 3:33 - loss: 0.0235 - accuracy: 0.99 - ETA: 3:32 - loss: 0.0232 - accuracy: 0.99 - ETA: 3:33 - loss: 0.0229 - accuracy: 0.99 -ETA: 3:32 - loss: 0.0226 - accuracy: 0.99 - ETA: 3:31 - loss: 0.0223 - accuracy: 0.99 - ETA: 3:29 - loss: 0.0220 - accuracy: 0.99 - ETA: 3:32 - loss: 0.0220 - accuracy: 0.99 - ETA: 3:32 - loss: 0.0220 - accuracy: 0.99 - ETA: 3:32 - loss: 0.0220 - accuracy: 0.99 - ETA: 3:31 - loss: 0.0220 - accuracy: 0.99 - ETA: 3:31 - loss: 0.0220 - accuracy: 0.99 - ETA: 3:31 - loss: 0.0220 - accuracy: 0.99 - ETA: 3:31 - loss: 0.0220 - accuracy: 0.99 - ETA: 3:31 - loss: 0.0220 - accuracy: 0.99 - ETA: 3:31 - loss: 0.0220 - accuracy: 0.99 - ETA: 3:31 - loss: 0.0220 - accuracy: 0.99 - ETA: 3:31 - loss: 0.0220 - accuracy: 0.99 - ETA: 3:31 - loss: 0.0223 - accuracy: 0.99 - ETA: 3:31 - loss: 0.0220 - accuracy: 0.99 - ETA: 3:31 - loss: 0.90 - accuracy: 0.90 - TA: 3:27 - loss: 0.0209 - accuracy: 0.99 - ETA: 3:25 - loss: 0.0214 - accuracy: 0.99 - ETA: 3:24 - loss: 0.0209 - accuracy: 0.99 - ETA: 3:19 - loss: 0.020 3:16 - loss: 0.0202 - accuracy: 0.99 - ETA: 3:16 - loss: 0.0200 - accuracy: 0.99 - ETA: 3:15 - loss: 0.0197 - accuracy: 0.99 - ETA: 3:14 - loss: 0.0193 - accuracy: 0.99 - ETA: 3:12 - loss: 0.0191 - accuracy: 0.99 - ETA: 3:11 - loss: 0.0189 - accuracy: 0.99 - ETA: 3:11 - loss: 0.0187 - accuracy: 0.99 - ETA: 3:10 - loss: 0.0212 - accuracy: 0.99 - ETA: 3:08 - loss: 0.0209 - accuracy: 0.99 - ETA: 3:06 - loss: 0.0207 - accuracy: 0.99 - ETA: 3:06 - loss: 0.0205 - accuracy: 0.99 - ETA: 3:06 - loss: 0.0207 - accuracy: 0.99 - ETA: 3:06 - loss: 0.0205 - accuracy: 0.99 - ETA: 3:06 - loss: 0.0207 - accuracy: 0.90 - ETA: 3:06 - loss: 0.0207 - accuracy: 0.90 - ETA: 3:06 - loss: 0.0207 - accuracy: 0.90 - ETA: 3:06 - loss: 0.0207 - accur oss: 0.0203 - accuracy: 0.99 - ETA: 3:05 - loss: 0.0201 - accuracy: 0.99 - ETA: 3:04 - loss: 0.0200 - accuracy: 0.99 - ETA: 3:04 - los s: 0.0198 - accuracy: 0.99 - ETA: 3:03 - loss: 0.0196 - accuracy: 0.99 - ETA: 3:02 - loss: 0.0194 - accuracy: 0.99 - ETA: 3:01 - loss: 0.0215 - accuracy: 0.99 - ETA: 2:59 - loss: 0.0213 - accuracy: 0.99 - ETA: 3:00 - loss: 0.0212 - accuracy: 0.99 - ETA: 2:59 - loss: 0. 0210 - accuracy: 0.99 - ETA: 2:57 - loss: 0.0208 - accuracy: 0.99 - ETA: 2:55 - loss: 0.0206 - accuracy: 0.99 - ETA: 2:54 - loss: 0.02 25 - accuracy: 0.99 - ETA: 2:53 - loss: 0.0223 - accuracy: 0.99 - ETA: 2:51 - loss: 0.0221 - accuracy: 0.99 - ETA: 2:49 - loss: 0.0220 - accuracy: 0.99 - ETA: 2:47 - loss: 0.0218 - accuracy: 0.99 - ETA: 2:46 - loss: 0.0233 - accuracy: 0.99 - ETA: 2:44 - loss: 0.0232 accuracy: 0.99 - ETA: 2:43 - loss: 0.0230 - accuracy: 0.99 - ETA: 2:42 - loss: 0.0229 - accuracy: 0.99 - ETA: 2:42 - loss: 0.0227 - a ccuracy: 0.99 - ETA: 2:40 - loss: 0.0226 - accuracy: 0.99 - ETA: 2:39 - loss: 0.0224 - accuracy: 0.99 - ETA: 2:38 - loss: 0.0223 - acc uracy: 0.99 - ETA: 2:37 - loss: 0.0221 - accuracy: 0.99 - ETA: 2:36 - loss: 0.0220 - accuracy: 0.99 - ETA: 2:35 - loss: 0.0219 - accur acy: 0.99 - ETA: 2:34 - loss: 0.0217 - accuracy: 0.99 - ETA: 2:34 - loss: 0.0216 - accuracy: 0.99 - ETA: 2:33 - loss: 0.0214 - accurac y: 0.99 - ETA: 2:32 - loss: 0.0213 - accuracy: 0.99 - ETA: 2:32 - loss: 0.0212 - accuracy: 0.99 - ETA: 2:30 - loss: 0.0210 - accuracy: 0.99 - ETA: 2:30 - loss: 0.0209 - accuracy: 0.99 - ETA: 2:28 - loss: 0.0223 - accuracy: 0.99 - ETA: 2:27 - loss: 0.0222 - accuracy: 0. 99 - ETA: 2:26 - loss: 0.0220 - accuracy: 0.99 - ETA: 2:25 - loss: 0.0219 - accuracy: 0.99 - ETA: 2:25 - loss: 0.0232 - accuracy: 0.99 - ETA: 2:24 - loss: 0.0230 - accuracy: 0.99 - ETA: 2:23 - loss: 0.0229 - accuracy: 0.99 - ETA: 2:22 - loss: 0.0228 - accuracy: 0.99 -ETA: 2:21 - loss: 0.0227 - accuracy: 0.99 - ETA: 2:21 - loss: 0.0250 - accuracy: 0.99 - ETA: 2:20 - loss: 0.0249 - accuracy: 0.99 - E TA: 2:18 - loss: 0.0248 - accuracy: 0.99 - ETA: 2:17 - loss: 0.0257 - accuracy: 0.99 - ETA: 2:17 - loss: 0.0257 - accuracy: 0.99 - ETA: 2:16 - loss: 0.0256 - accuracy: 0.99 - ETA: 2:15 - loss: 0.0255 - accuracy: 0.99 - ETA: 2:14 - loss: 0.0254 - accuracy: 0.99 - ETA: 2:15 - loss: 0.0255 - accuracy: 0.99 - ETA: 2:16 - loss: 0.0254 - accuracy: 0.99 - ETA: 2:17 - loss: 0.0255 - accuracy: 0.99 - ETA: 2:18 - loss: 0.0254 - accuracy: 0.99 - ETA: 2:17 - loss: 0.0255 - accuracy: 0.99 - ETA: 2:18 - loss: 0.0254 - accuracy: 0.99 - ETA: 2:17 - loss: 0.0255 - accuracy: 0.99 - ETA: 2:18 - loss: 0.0256 - accuracy: 0.99 - ETA: 2:17 - loss: 0.0256 - accuracy: 0.99 - ETA: 2:18 - loss: 0.025 2:14 - loss: 0.0253 - accuracy: 0.99 - ETA: 2:13 - loss: 0.0252 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0251 - accuracy: 0.99 - ETA: 2: 13 - loss: 0.0250 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0249 - accuracy: 0.99 - ETA: 2:11 - loss: 0.0248 - accuracy: 0.99 - ETA: 2:10 - loss: 0.0247 - accuracy: 0.99 - ETA: 2:09 - loss: 0.0246 - accuracy: 0.99 - ETA: 2:08 - loss: 0.0245 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0244 - accuracy: 0.99 - ETA: 2:06 - loss: 0.0242 - accuracy: 0.99 - ETA: 2:05 - loss: 0.0241 - accuracy: 0.99 - ETA: 2:04 - loss: 0.0240 - accuracy: 0.99 - ETA: 2:03 - loss: 0.0239 - accuracy: 0.99 - ETA: 2:02 - loss: 0.0237 - accuracy: 0.99 - ETA: 2:02 - loss: 0.0240 - accuracy: 0.99 - ETA: 2:03 - loss: 0.0239 - accuracy: 0.99 - ETA: 2:02 - loss: 0.0237 - accuracy: 0.99 - ETA: 2:02 - loss: 0.0240 - accuracy: 0.99 - ETA: 2:05 - loss: 0.0240 - accuracy: 0.99 - ETA: 2:08 - loss: 0.0240 - accuracy: 0.99 - ETA: 2:09 - accurac s: 0.0236 - accuracy: 0.99 - ETA: 2:01 - loss: 0.0235 - accuracy: 0.99 - ETA: 2:01 - loss: 0.0234 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0232 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0231 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0230 - accuracy: 0.99 - ETA: 1:57 - loss: 0. 0241 - accuracy: 0.99 - ETA: 1:57 - loss: 0.0239 - accuracy: 0.99 - ETA: 1:56 - loss: 0.0238 - accuracy: 0.99 - ETA: 1:55 - loss: 0.02 37 - accuracy: 0.99 - ETA: 1:53 - loss: 0.0236 - accuracy: 0.99 - ETA: 1:53 - loss: 0.0235 - accuracy: 0.99 - ETA: 1:52 - loss: 0.0233 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0232 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0231 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0230 accuracy: 0.99 - ETA: 1:49 - loss: 0.0229 - accuracy: 0.99 - ETA: 1:48 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0239 - a ccuracy: 0.99 - ETA: 1:46 - loss: 0.0237 - accuracy: 0.99 - ETA: 1:46 - loss: 0.0236 - accuracy: 0.99 - ETA: 1:45 - loss: 0.0235 - acc uracy: 0.99 - ETA: 1:45 - loss: 0.0234 - accuracy: 0.99 - ETA: 1:44 - loss: 0.0233 - accuracy: 0.99 - ETA: 1:43 - loss: 0.0232 - accur acy: 0.99 - ETA: 1:42 - loss: 0.0231 - accuracy: 0.99 - ETA: 1:41 - loss: 0.0230 - accuracy: 0.99 - ETA: 1:41 - loss: 0.0229 - accurac y: 0.99 - ETA: 1:40 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0226 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0224 - accuracy: 0.99 - ETA: 1:38 - loss: 0.0223 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0222 - accuracy: 0. 99 - ETA: 1:37 - loss: 0.0232 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0231 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0230 - accuracy: 0.99 A: 1:36 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:36 - loss: 0.0226 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0224 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0223 - accuracy: 0.99 - ETA: 1:33 - loss: 0.0232 - accuracy: 0.99 - ETA: 1:

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33 - loss: 0.0231 - accuracy: 0.99 - ETA: 1:32 - loss: 0.0230 - accuracy: 0.99 - ETA: 1:31 - loss: 0.0229 - accuracy: 0.99 - ETA: 1:30 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:30 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:29 - loss: 0.0226 - accuracy: 0.99 - ETA: 1:28 -
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oss: 0.0223 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0230 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0229 - accuracy: 0.99 - ETA: 1:24 - los
s: 0.0229 - accuracy: 0.99 - ETA: 1:23 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:22 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:21 - loss:
0.0226 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0240 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0240 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0239 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0238 - accuracy: 0.99 - ETA: 1:16 - loss: 0.02
37 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0237 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0236 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0235
- accuracy: 0.99 - ETA: 1:13 - loss: 0.0235 - accuracy: 0.99 - ETA: 1:12 - loss: 0.0234 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0233 -
 accuracy: 0.99 - ETA: 1:11 - loss: 0.0233 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0232 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0231 - a
ccuracy: 0.99 - ETA: 1:08 - loss: 0.0230 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0230 - accuracy: 0.99 - ETA: 1:06 - loss: 0.0229 - acc
uracy: 0.99 - ETA: 1:06 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0227 - accur
acy: 0.99 - ETA: 1:03 - loss: 0.0226 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0224 - accurac
y: 0.99 - ETA: 1:01 - loss: 0.0223 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0223 - accuracy: 0.99 - ETA: 59s - loss: 0.0222 - accuracy:
 0.9971 - ETA: 59s - loss: 0.0221 - accuracy: 0.997 - ETA: 58s - loss: 0.0220 - accuracy: 0.997 - ETA: 57s - loss: 0.0219 - accuracy:
 0.997 - ETA: 56s - loss: 0.0219 - accuracy: 0.997 - ETA: 55s - loss: 0.0218 - accuracy: 0.997 - ETA: 55s - loss: 0.0217 - accuracy:
 0.997 - ETA: 54s - loss: 0.0216 - accuracy: 0.997 - ETA: 53s - loss: 0.0216 - accuracy: 0.997 - ETA: 52s - loss: 0.0215 - accuracy:
 0.997 - ETA: 51s - loss: 0.0214 - accuracy: 0.997 - ETA: 51s - loss: 0.0213 - accuracy: 0.997 - ETA: 50s - loss: 0.0213 - accuracy:
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 0.997 - ETA: 44s - loss: 0.0208 - accuracy: 0.997 - ETA: 43s - loss: 0.0207 - accuracy: 0.997 - ETA: 43s - loss: 0.0206 - accuracy:
 0.997 - ETA: 42s - loss: 0.0205 - accuracy: 0.997 - ETA: 41s - loss: 0.0205 - accuracy: 0.997 - ETA: 40s - loss: 0.0204 - accuracy:
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 0.997 - ETA: 37s - loss: 0.0201 - accuracy: 0.997 - ETA: 36s - loss: 0.0201 - accuracy: 0.997 - ETA: 36s - loss: 0.0200 - accuracy:
 0.997 - ETA: 35s - loss: 0.0199 - accuracy: 0.997 - ETA: 34s - loss: 0.0199 - accuracy: 0.997 - ETA: 33s - loss: 0.0198 - accuracy:
 0.997 - ETA: 33s - loss: 0.0197 - accuracy: 0.997 - ETA: 32s - loss: 0.0197 - accuracy: 0.997 - ETA: 31s - loss: 0.0196 - accuracy:
 0.997 - ETA: 30s - loss: 0.0196 - accuracy: 0.997 - ETA: 30s - loss: 0.0195 - accuracy: 0.997 - ETA: 29s - loss: 0.0194 - accuracy:
 0.997 - ETA: 28s - loss: 0.0194 - accuracy: 0.997 - ETA: 27s - loss: 0.0193 - accuracy: 0.997 - ETA: 27s - loss: 0.0193 - accuracy:
 0.997 - ETA: 26s - loss: 0.0192 - accuracy: 0.997 - ETA: 25s - loss: 0.0191 - accuracy: 0.997 - ETA: 24s - loss: 0.0191 - accuracy:
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 0.997 - ETA: 21s - loss: 0.0188 - accuracy: 0.997 - ETA: 20s - loss: 0.0188 - accuracy: 0.997 - ETA: 20s - loss: 0.0187 - accuracy:
 0.997 - ETA: 19s - loss: 0.0187 - accuracy: 0.997 - ETA: 18s - loss: 0.0186 - accuracy: 0.997 - ETA: 18s - loss: 0.0202 - accuracy:
 0.997 - ETA: 17s - loss: 0.0201 - accuracy: 0.997 - ETA: 16s - loss: 0.0201 - accuracy: 0.997 - ETA: 15s - loss: 0.0200 - accuracy:
 0.997 - ETA: 14s - loss: 0.0200 - accuracy: 0.997 - ETA: 14s - loss: 0.0199 - accuracy: 0.997 - ETA: 13s - loss: 0.0199 - accuracy:
 0.997 - ETA: 12s - loss: 0.0198 - accuracy: 0.997 - ETA: 11s - loss: 0.0198 - accuracy: 0.997 - ETA: 11s - loss: 0.0198 - accuracy:
 0.997 - ETA: 10s - loss: 0.0197 - accuracy: 0.997 - ETA: 9s - loss: 0.0196 - accuracy: 0.997 - ETA: 8s - loss: 0.0196 - accuracy: 0.997
9 - ETA: 8s - loss: 0.0195 - accuracy: 0.99 - ETA: 7s - loss: 0.0195 - accuracy: 0.99 - ETA: 6s - loss: 0.0194 - accuracy: 0.99
5s - loss: 0.0200 - accuracy: 0.99 - ETA: 5s - loss: 0.0200 - accuracy: 0.99 - ETA: 4s - loss: 0.0199 - accuracy: 0.99 - ETA: 3s - los
s: 0.0199 - accuracy: 0.99 - ETA: 2s - loss: 0.0198 - accuracy: 0.99 - ETA: 2s - loss: 0.0198 - accuracy: 0.99 - ETA: 1s - loss: 0.019
7 - accuracy: 0.99 - ETA: 0s - loss: 0.0197 - accuracy: 0.99 - ETA: 0s - loss: 0.0197 - accuracy: 0.99 - 236s 734ms/step - loss: 0.019
7 - accuracy: 0.9975 - val loss: 0.0228 - val accuracy: 0.9968
.
109/322 [=======>>......] - ETA: 0s - loss: 0.0043 - accuracy: 1.00 - ETA: 57s - loss: 0.0042 - accuracy: 1.000 - ETA:
1:14 - loss: 0.0041 - accuracy: 1.00 - ETA: 1:27 - loss: 0.0041 - accuracy: 1.00 - ETA: 1:26 - loss: 0.0041 - accuracy: 1.00 - ETA:
 1:32 - loss: 0.0040 - accuracy: 1.00 - ETA: 1:31 - loss: 0.0040 - accuracy: 1.00 - ETA: 1:36 - loss: 0.0039 - accuracy: 1.00 - ETA:
 1:35 - loss: 0.0039 - accuracy: 1.00 - ETA: 1:35 - loss: 0.0038 - accuracy: 1.00 - ETA: 1:32 - loss: 0.0037 - accuracy: 1.00 - ETA:
 1:30 - loss: 0.0037 - accuracy: 1.00 - ETA: 1:32 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:31 - loss: 0.0183 - accuracy: 0.99 - ETA:
 1:33 - loss: 0.0173 - accuracy: 0.99 - ETA: 1:31 - loss: 0.0165 - accuracy: 0.99 - ETA: 1:29 - loss: 0.0157 - accuracy: 0.99 - ETA:
 1:31 - loss: 0.0151 - accuracy: 0.99 - ETA: 1:31 - loss: 0.0145 - accuracy: 0.99 - ETA: 1:32 - loss: 0.0140 - accuracy: 0.99 - ETA:
 1:31 - loss: 0.0135 - accuracy: 0.99 - ETA: 1:31 - loss: 0.0131 - accuracy: 0.99 - ETA: 1:33 - loss: 0.0127 - accuracy: 0.99 - ETA:
 1:33 - loss: 0.0123 - accuracy: 0.99 - ETA: 1:31 - loss: 0.0119 - accuracy: 0.99 - ETA: 1:30 - loss: 0.0116 - accuracy: 0.99 - ETA:
 1:32 - loss: 0.0113 - accuracy: 0.99 - ETA: 1:31 - loss: 0.0110 - accuracy: 0.99 - ETA: 1:30 - loss: 0.0107 - accuracy: 0.99 - ETA:
 1:30 - loss: 0.0105 - accuracy: 0.99 - ETA: 1:33 - loss: 0.0102 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0100 - accuracy: 0.99 - ETA:
 1:35 - loss: 0.0159 - accuracy: 0.99 - ETA: 1:36 - loss: 0.0155 - accuracy: 0.99 - ETA: 1:38 - loss: 0.0152 - accuracy: 0.99 - ETA:
 1:39 - loss: 0.0148 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0145 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0143 - accuracy: 0.99 - ETA:
 1:39 - loss: 0.0140 - accuracy: 0.99 - ETA: 1:42 - loss: 0.0137 - accuracy: 0.99 - ETA: 1:43 - loss: 0.0135 - accuracy: 0.99 - ETA:
 1:44 - loss: 0.0132 - accuracy: 0.99 - ETA: 1:44 - loss: 0.0130 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0128 - accuracy: 0.99 - ETA:
 1:48 - loss: 0.0126 - accuracy: 0.99 - ETA: 1:48 - loss: 0.0166 - accuracy: 0.99 - ETA: 1:48 - loss: 0.0163 - accuracy: 0.99 - ETA:
 1:50 - loss: 0.0161 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0158 - accuracy: 0.99 - ETA: 1:52 - loss: 0.0156 - accuracy: 0.99 - ETA:
 1:53 - loss: 0.0153 - accuracy: 0.99 - ETA: 1:56 - loss: 0.0151 - accuracy: 0.99 - ETA: 1:56 - loss: 0.0149 - accuracy: 0.99 - ETA:
 1:57 - loss: 0.0147 - accuracy: 0.99 - ETA: 1:57 - loss: 0.0145 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0143 - accuracy: 0.99 - ETA:
 1:59 - loss: 0.0141 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0139 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0137 - accuracy: 0.99 - ETA:
 2:01 - loss: 0.0136 - accuracy: 0.99 - ETA: 2:01 - loss: 0.0166 - accuracy: 0.99 - ETA: 2:00 - loss: 0.0193 - accuracy: 0.99 - ETA:
 2:00 - loss: 0.0190 - accuracy: 0.99 - ETA: 2:01 - loss: 0.0188 - accuracy: 0.99 - ETA: 2:04 - loss: 0.0186 - accuracy: 0.99 - ETA:
 2:05 - loss: 0.0184 - accuracy: 0.99 - ETA: 2:06 - loss: 0.0182 - accuracy: 0.99 - ETA: 2:05 - loss: 0.0180 - accuracy: 0.99 - ETA:
 2:07 - loss: 0.0179 - accuracy: 0.99 - ETA: 2:06 - loss: 0.0177 - accuracy: 0.99 - ETA: 2:09 - loss: 0.0175 - accuracy: 0.99 - ETA:
 2:12 - loss: 0.0173 - accuracy: 0.99 - ETA: 2:14 - loss: 0.0196 - accuracy: 0.99 - ETA: 2:13 - loss: 0.0194 - accuracy: 0.99 - ETA:
 2:13 - loss: 0.0193 - accuracy: 0.99 - ETA: 2:13 - loss: 0.0191 - accuracy: 0.99 - ETA: 2:13 - loss: 0.0189 - accuracy: 0.99 - ETA:
 2:13 - loss: 0.0187 - accuracy: 0.99 - ETA: 2:14 - loss: 0.0186 - accuracy: 0.99 - ETA: 2:14 - loss: 0.0184 - accuracy: 0.99 - ETA:
 2:12 - loss: 0.0182 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0181 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0200 - accuracy: 0.99 - ETA:
 2:12 - loss: 0.0198 - accuracy: 0.99 - ETA: 2:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 2:09 - loss: 0.0195 - accuracy: 0.99 - ETA:
 2:08 - loss: 0.0193 - accuracy: 0.99 - ETA: 2:08 - loss: 0.0192 - accuracy: 0.99 - ETA: 2:08 - loss: 0.0190 - accuracy: 0.99 - ETA:
 2:07 - loss: 0.0189 - accuracy: 0.99 - ETA: 2:06 - loss: 0.0187 - accuracy: 0.99 - ETA: 2:05 - loss: 0.0186 - accuracy: 0.99 - ETA:
 2:04 - loss: 0.0184 - accuracy: 0.99 - ETA: 2:03 - loss: 0.0182 - accuracy: 0.99 - ETA: 2:02 - loss: 0.0181 - accuracy: 0.99 - ETA:
 2:02 - loss: 0.0179 - accuracy: 0.99 - ETA: 2:02 - loss: 0.0178 - accuracy: 0.99 - ETA: 2:02 - loss: 0.0177 - accuracy: 0.99 - ETA:
 2:01 - loss: 0.0175 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0174 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0172 - accuracy: 0.99 - ETA:
 1:59 - loss: 0.0171 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0169 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0168 - accuracy: 0.99 - ETA:
 1:58 - loss: 0.0167 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0165 - accuracy: 0.99 - ETA: 1:59 - loss: 0.0164 - accuracy: 0.99 - ETA:
 1:59 - loss: 0.0163 - accuracy: 0.99 - ETA: 1:58 - loss: 0.0162 - accuracy: 0.9980WARNING:tensorflow:Method (on_train_batch_end) is s
low compared to the batch update (0.277566). Check your callbacks.
227/322 [==========>: ......] - ETA: 1:57 - loss: 0.0160 - accuracy: 0.99 - ETA: 1:57 - loss: 0.0159 - accuracy: 0.99 - ET
A: 1:56 - loss: 0.0158 - accuracy: 0.99 - ETA: 1:55 - loss: 0.0157 - accuracy: 0.99 - ETA: 1:55 - loss: 0.0156 - accuracy: 0.99 - ETA:
1:55 - loss: 0.0154 - accuracy: 0.99 - ETA: 1:56 - loss: 0.0153 - accuracy: 0.99 - ETA: 1:55 - loss: 0.0170 - accuracy: 0.99 - ETA: 1:
55 - loss: 0.0169 - accuracy: 0.99 - ETA: 1:55 - loss: 0.0168 - accuracy: 0.99 - ETA: 1:54 - loss: 0.0184 - accuracy: 0.99 - ETA: 1:53
- loss: 0.0183 - accuracy: 0.99 - ETA: 1:53 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:52 - loss: 0.0196 - accuracy: 0.99 - ETA: 1:52 -
 loss: 0.0195 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:51 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:50 - l
oss: 0.0193 - accuracy: 0.99 - ETA: 1:50 - loss: 0.0192 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0191 - accuracy: 0.99 - ETA: 1:49 - los
s: 0.0190 - accuracy: 0.99 - ETA: 1:49 - loss: 0.0202 - accuracy: 0.99 - ETA: 1:48 - loss: 0.0201 - accuracy: 0.99 - ETA: 1:47 - loss:
0.0200 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0199 - accuracy: 0.99 - ETA: 1:46 - loss: 0.0198 - accuracy: 0.99 - ETA: 1:45 - loss: 0.
0197 - accuracy: 0.99 - ETA: 1:45 - loss: 0.0196 - accuracy: 0.99 - ETA: 1:44 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:44 - loss: 0.01
94 - accuracy: 0.99 - ETA: 1:43 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:43 - loss: 0.0192 - accuracy: 0.99 - ETA: 1:43 - loss: 0.0203
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- accuracy: 0.99 - ETA: 1:43 - loss: 0.0202 - accuracy: 0.99 - ETA: 1:42 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:42 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:42 - loss: 0.0212 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0221 - accuracy: 0.99 - ETA: 0.90 - accuracy: 0.99 - ETA: 0.90 - accuracy: 0.99 - ETA: 0.90 - accuracy: 0.90 - accu
ccuracy: 0.99 - ETA: 1:39 - loss: 0.0220 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0219 - accuracy: 0.99 - ETA: 1:38 - loss: 0.0229 - acc
uracy: 0.99 - ETA: 1:37 - loss: 0.0228 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0227 - accuracy: 0.99 - ETA: 1.90 - loss: 0.90 - los
acy: 0.99 - ETA: 1:36 - loss: 0.0226 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0225 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0224 - accurac
y: 0.99 - ETA: 1:34 - loss: 0.0224 - accuracy: 0.99 - ETA: 1:33 - loss: 0.0223 - accuracy: 0.99 - ETA: 1:32 - loss: 0.0222 - accuracy:
0.99 - ETA: 1:31 - loss: 0.0221 - accuracy: 0.99 - ETA: 1:31 - loss: 0.0220 - accuracy: 0.99 - ETA: 1:31 - loss: 0.0219 - accuracy: 0.
99 - ETA: 1:31 - loss: 0.0218 - accuracy: 0.99 - ETA: 1:30 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:29 - loss: 0.0216 - accuracy: 0.99
- ETA: 1:29 - loss: 0.0215 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0214 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0213 - accuracy: 0.99 -
  ETA: 1:27 - loss: 0.0212 - accuracy: 0.99 - ETA: 1:26 - loss: 0.0211 - accuracy: 0.99 - ETA: 1:26 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:27 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:26 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:27 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:27 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:27 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1.28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1.28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1.28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1.28 - loss: 0.0210 - accuracy: 0.99 - ETA: 1.28 - loss: 0.0210 - accuracy: 0.99 - ETA: 0.90 - accuracy: 0.99 - ETA: 0.90 - accuracy: 0.90 - accu
TA: 1:25 - loss: 0.0209 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0208 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0207 - accuracy: 0.99 - ET
A: 1:23 - loss: 0.0206 - accuracy: 0.99 - ETA: 1:23 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:22 - loss: 0.0204 - accuracy: 0.99 - ETA:
1:22 - loss: 0.0214 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0213 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0212 - accuracy: 0.99 - ETA: 1:
20 - loss: 0.0211 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0209 - accuracy: 0.99 - ETA: 1:18
- loss: 0.0208 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:17 -
 loss: 0.0206 - accuracy: 0.99 - ETA: 1:16 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:15 - loss: 0.0204 - accuracy: 0.99 - ETA: 1:15 - l
oss: 0.0203 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0202 - accuracy: 0.99 - ETA: 1:14 - loss: 0.0201 - accuracy: 0.99 - ETA: 1:14 - los
s: 0.0200 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0199 - accuracy: 0.99 - ETA: 1:13 - loss: 0.0198 - accuracy: 0.99 - ETA: 1:12 - loss:
0.0197 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0196 - accuracy: 0.99 - ETA: 1:11 - loss: 0.0196 - accuracy: 0.99 - ETA: 1:11 - loss: 0.
0195 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0194 - accuracy: 0.99 - ETA: 1:09 - loss: 0.0193 - accuracy: 0.99 - ETA: 1:08 - loss: 0.01
92 - accuracy: 0.99 - ETA: 1:08 - loss: 0.0191 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0191 - accuracy: 0.99 - ETA: 1:07 - loss: 0.0190
- accuracy: 0.99 - ETA: 1:06 - loss: 0.0189 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0188 - accuracy: 0.99 - ETA: 1:04 - loss: 0.0187 -
 accuracy: 0.99 - ETA: 1:04 - loss: 0.0187 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0186 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0185 - a
ccuracy: 0.99 - ETA: 1:02 - loss: 0.0184 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0183 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0182 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0181 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 59s - loss: 0.0180 - accuracy: 0.99 - ETA: 50s - accuracy: 0.99 - ETA: 50s - accuracy: 0.99 - ETA: 50s - accuracy: 0.99 - ETA: 50
cy: 0.9977 - ETA: 58s - loss: 0.0180 - accuracy: 0.997 - ETA: 58s - loss: 0.0179 - accuracy: 0.997 - ETA: 58s - loss: 0.0188 - accuracy: 0.997 - ETA: 58s - loss: 0.0188 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s - loss: 0.0186 - accuracy: 0.997 - ETA: 58s 
0.997 - ETA: 56s - loss: 0.0186 - accuracy: 0.997 - ETA: 55s - loss: 0.0185 - accuracy: 0.997 - ETA: 54s - loss: 0.0203 - accuracy: 0.
9974WARNING:tensorflow:Method (on_train_batch_end) is slow compared to the batch update (0.189041). Check your callbacks.
51s - loss: 0.0209 - accuracy: 0.997 - ETA: 50s - loss: 0.0209 - accuracy: 0.997 - ETA: 50s - loss: 0.0208 - accuracy: 0.997 - ETA: 49
s - loss: 0.0208 - accuracy: 0.997 - ETA: 49s - loss: 0.0207 - accuracy: 0.997 - ETA: 48s - loss: 0.0207 - accuracy: 0.997 - ETA: 48s
   - loss: 0.0206 - accuracy: 0.997 - ETA: 47s - loss: 0.0206 - accuracy: 0.997 - ETA: 46s - loss: 0.0213 - accuracy: 0.997 - ETA: 46s -
loss: 0.0212 - accuracy: 0.997 - ETA: 45s - loss: 0.0212 - accuracy: 0.997 - ETA: 44s - loss: 0.0211 - accuracy: 0.997 - ETA: 44s - lo
ss: 0.0211 - accuracy: 0.997 - ETA: 43s - loss: 0.0210 - accuracy: 0.997 - ETA: 43s - loss: 0.0210 - accuracy: 0.997 - ETA: 42s - los
s: 0.0209 - accuracy: 0.997 - ETA: 42s - loss: 0.0208 - accuracy: 0.997 - ETA: 41s - loss: 0.0208 - accuracy: 0.997 - ETA: 41s - loss:
0.0207 - accuracy: 0.997 - ETA: 40s - loss: 0.0207 - accuracy: 0.997 - ETA: 39s - loss: 0.0206 - accuracy: 0.997 - ETA: 39s - loss: 0.
0206 - accuracy: 0.997 - ETA: 38s - loss: 0.0205 - accuracy: 0.997 - ETA: 38s - loss: 0.0204 - accuracy: 0.997 - ETA: 37s - loss: 0.02
11 - accuracy: 0.997 - ETA: 37s - loss: 0.0210 - accuracy: 0.997 - ETA: 36s - loss: 0.0210 - accuracy: 0.997 - ETA: 36s - loss: 0.0209
 - accuracy: 0.997 - ETA: 35s - loss: 0.0208 - accuracy: 0.997 - ETA: 34s - loss: 0.0208 - accuracy: 0.997 - ETA: 34s - loss: 0.0207 -
 accuracy: 0.997 - ETA: 33s - loss: 0.0207 - accuracy: 0.997 - ETA: 32s - loss: 0.0206 - accuracy: 0.997 - ETA: 32s - loss: 0.0205 - a
ccuracy: 0.997 - ETA: 31s - loss: 0.0205 - accuracy: 0.997 - ETA: 31s - loss: 0.0204 - accuracy: 0.997 - ETA: 30s - loss: 0.0203 - acc
uracy: 0.997 - ETA: 29s - loss: 0.0203 - accuracy: 0.997 - ETA: 29s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28s - loss: 0.0202 - accuracy: 0.997 - ETA: 28
acy: 0.997 - ETA: 28s - loss: 0.0201 - accuracy: 0.997 - ETA: 27s - loss: 0.0200 - accuracy: 0.997 - ETA: 26s - loss: 0.0200 - accurac
y: 0.997 - ETA: 26s - loss: 0.0199 - accuracy: 0.997 - ETA: 25s - loss: 0.0198 - accuracy: 0.997 - ETA: 25s - loss: 0.0198 - accuracy:
ó.997 - ETA: 24s - loss: 0.0197 - accuracy: ó.997 - ETA: 23s - loss: 0.0197 - accuracy: ó.997 - ETA: 23s - loss: 0.0196 - accuracy: ó.
997 - ETA: 22s - loss: 0.0195 - accuracy: 0.997 - ETA: 22s - loss: 0.0195 - accuracy: 0.997 - ETA: 21s - loss: 0.0194 - accuracy: 0.99
7 - ETA: 20s - loss: 0.0194 - accuracy: 0.997 - ETA: 20s - loss: 0.0193 - accuracy: 0.997 - ETA: 19s - loss: 0.0192 - accuracy: 0.997 - ETA: 19s - loss: 0.0192 - accuracy: 0.997 - ETA: 19s - loss: 0.0192 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0.0191 - accuracy: 0.997 - ETA: 19s - loss: 0
ETA: 17s - loss: 0.0190 - accuracy: 0.997 - ETA: 16s - loss: 0.0190 - accuracy: 0.997 - ETA: 16s - loss: 0.0197 - accuracy: 0.997 - ET
A: 15s - loss: 0.0196 - accuracy: 0.997 - ETA: 15s - loss: 0.0195 - accuracy: 0.997 - ETA: 14s - loss: 0.0195 - accuracy: 0.997 - ETA:
13s - loss: 0.0201 - accuracy: 0.997 - ETA: 13s - loss: 0.0207 - accuracy: 0.997 - ETA: 12s - loss: 0.0207 - accuracy: 0.997 - ETA: 11s - loss: 0.0206 - accuracy: 0.997 - ETA: 11s - loss: 0.0206 - accuracy: 0.997 - ETA: 10s
  - loss: 0.0205 - accuracy: 0.997 - ETA: 9s - loss: 0.0211 - accuracy: 0.997 - ETA: 9s - loss: 0.0210 - accuracy: 0.99 - ETA: 8s - los
s: 0.0210 - accuracy: 0.99 - ETA: 8s - loss: 0.0210 - accuracy: 0.99 - ETA: 7s - loss: 0.0209 - accuracy: 0.99 - ETA: 7s - loss: 0.020
9 - accuracy: 0.99 - ETA: 6s - loss: 0.0208 - accuracy: 0.99 - ETA: 5s - loss: 0.0208 - accuracy: 0.99 - ETA: 5s - loss: 0.0207 - accu
racy: 0.99 - ETA: 4s - loss: 0.0207 - accuracy: 0.99 - ETA: 4s - loss: 0.0207 - accuracy: 0.99 - ETA: 3s - loss: 0.0206 - accuracy: 0.
99 - ETA: 3s - loss: 0.0206 - accuracy: 0.99 - ETA: 2s - loss: 0.0205 - accuracy: 0.99 - ETA: 2s - loss: 0.0205 - accuracy: 0.99 - ET
A: 1s - loss: 0.0204 - accuracy: 0.99 - ETA: 1s - loss: 0.0204 - accuracy: 0.99 - ETA: 0s - loss: 0.0203 - accuracy: 0.99 - ETA: 0s -
  loss: 0.0203 - accuracy: 0.99 - 182s 564ms/step - loss: 0.0203 - accuracy: 0.9975 - val_loss: 0.0234 - val_accuracy: 0.9968
Epoch 49/50
.
186/322 [=========>.......] - ETA: 0s - loss: 0.0043 - accuracy: 1.00 - ETA: 1:07 - loss: 0.0043 - accuracy: 1.00 - ETA:
  1:33 - loss: 0.0042 - accuracy: 1.00 - ETA: 2:05 - loss: 0.0041 - accuracy: 1.00 - ETA: 2:07 - loss: 0.0040 - accuracy: 1.00 - ETA:
  2:01 - loss: 0.0039 - accuracy: 1.00 - ETA: 2:05 - loss: 0.0038 - accuracy: 1.00 - ETA: 2:08 - loss: 0.0037 - accuracy: 1.00 - ETA:
  2:13 - loss: 0.0036 - accuracy: 1.00 - ETA: 2:14 - loss: 0.0035 - accuracy: 1.00 - ETA: 2:21 - loss: 0.0035 - accuracy: 1.00 - ETA:
  2:23 - loss: 0.0034 - accuracy: 1.00 - ETA: 2:23 - loss: 0.0034 - accuracy: 1.00 - ETA: 2:32 - loss: 0.0033 - accuracy: 1.00 - ETA:
  2:29 - loss: 0.0033 - accuracy: 1.00 - ETA: 2:25 - loss: 0.0032 - accuracy: 1.00 - ETA: 2:21 - loss: 0.0032 - accuracy: 1.00 - ETA:
  2:16 - loss: 0.0031 - accuracy: 1.00 - ETA: 2:21 - loss: 0.0031 - accuracy: 1.00 - ETA: 2:18 - loss: 0.0137 - accuracy: 0.99 - ETA:
  2:14 - loss: 0.0131 - accuracy: 0.99 - ETA: 2:11 - loss: 0.0126 - accuracy: 0.99 - ETA: 2:12 - loss: 0.0122 - accuracy: 0.99 - ETA:
  2:10 - loss: 0.0119 - accuracy: 0.99 - ETA: 2:07 - loss: 0.0115 - accuracy: 0.99 - ETA: 2:04 - loss: 0.0112 - accuracy: 0.99 - ETA:
  2:00 - loss: 0.0109 - accuracy: 0.99 - ETA: 1:57 - loss: 0.0106 - accuracy: 0.99 - ETA: 1:55 - loss: 0.0103 - accuracy: 0.99 - ETA:
  1:54 - loss: 0.0101 - accuracy: 0.99 - ETA: 1:54 - loss: 0.0099 - accuracy: 0.99 - ETA: 1:52 - loss: 0.0096 - accuracy: 0.99 - ETA:
  1:50 - loss: 0.0094 - accuracy: 0.99 - ETA: 1:48 - loss: 0.0092 - accuracy: 0.99 - ETA: 1:47 - loss: 0.0090 - accuracy: 0.99 - ETA:
  1:45 - loss: 0.0088 - accuracy: 0.99 - ETA: 1:44 - loss: 0.0144 - accuracy: 0.99 - ETA: 1:43 - loss: 0.0141 - accuracy: 0.99 - ETA:
  1:41 - loss: 0.0138 - accuracy: 0.99 - ETA: 1:40 - loss: 0.0136 - accuracy: 0.99 - ETA: 1:39 - loss: 0.0180 - accuracy: 0.99 - ETA:
  1:39 - loss: 0.0177 - accuracy: 0.99 - ETA: 1:37 - loss: 0.0174 - accuracy: 0.99 - ETA: 1:36 - loss: 0.0171 - accuracy: 0.99 - ETA:
  1:35 - loss: 0.0168 - accuracy: 0.99 - ETA: 1:35 - loss: 0.0166 - accuracy: 0.99 - ETA: 1:34 - loss: 0.0163 - accuracy: 0.99 - ETA:
  1:33 - loss: 0.0161 - accuracy: 0.99 - ETA: 1:32 - loss: 0.0195 - accuracy: 0.99 - ETA: 1:30 - loss: 0.0192 - accuracy: 0.99 - ETA:
  1:29 - loss: 0.0189 - accuracy: 0.99 - ETA: 1:29 - loss: 0.0187 - accuracy: 0.99 - ETA: 1:28 - loss: 0.0184 - accuracy: 0.99 - ETA:
  1:27 - loss: 0.0182 - accuracy: 0.99 - ETA: 1:27 - loss: 0.0179 - accuracy: 0.99 - ETA: 1:26 - loss: 0.0177 - accuracy: 0.99 - ETA:
  1:25 - loss: 0.0175 - accuracy: 0.99 - ETA: 1:25 - loss: 0.0203 - accuracy: 0.99 - ETA: 1:24 - loss: 0.0200 - accuracy: 0.99 - ETA:
  1:23 - loss: 0.0227 - accuracy: 0.99 - ETA: 1:22 - loss: 0.0224 - accuracy: 0.99 - ETA: 1:22 - loss: 0.0222 - accuracy: 0.99 - ETA:
  1:21 - loss: 0.0220 - accuracy: 0.99 - ETA: 1:21 - loss: 0.0218 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0216 - accuracy: 0.99 - ETA:
  1:19 - loss: 0.0214 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0212 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0209 - accuracy: 0.99 - ETA:
  1:18 - loss: 0.0207 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0205 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0203 - accuracy: 0.99 - ETA:
  1:18 - loss: 0.0201 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0223 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0221 - accuracy: 0.99 - ETA:
  1:21 - loss: 0.0219 - accuracy: 0.99 - ETA: 1:22 - loss: 0.0217 - accuracy: 0.99 - ETA: 1:22 - loss: 0.0214 - accuracy: 0.99 - ETA:
  1:23 - loss: 0.0212 - accuracy: 0.99 - ETA: 1:22 - loss: 0.0210 - accuracy: 0.99 - ETA: 1:22 - loss: 0.0208 - accuracy: 0.99 - ETA:
  1:21 - loss: 0.0206 - accuracy: 0.99 - ETA: 1:20 - loss: 0.0204 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0202 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0200 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:17 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:18 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:19 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 - accuracy: 0.99 - ETA: 1:10 - loss: 0.0197 -
```

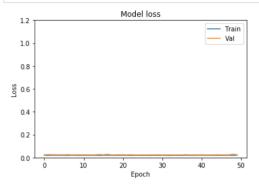
```
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997 - ETA: 28s - loss: 0.0168 - accuracy: 0.997 - ETA: 27s - loss: 0.0168 - accuracy: 0.997 - ETA: 27s - loss: 0.0167 - accuracy: 0.997
7 - ETA: 27s - loss: 0.0166 - accuracy: 0.997 - ETA: 27s - loss: 0.0176 - accuracy: 0.997 - ETA: 26s - loss: 0.0175 - accuracy: 0.997 - ETA: 26s - loss: 0.0174 - accuracy: 0.997 - ETA: 26s - loss: 0.0174 - accuracy: 0.997 - ETA: 26s - loss: 0.0174 - accuracy: 0.997 - ETA: 26s - loss: 0.0174 - accuracy: 0.997 - ETA: 26s - loss: 0.0174 - accuracy: 0.997 - ETA: 26s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0.0174 - accuracy: 0.997 - ETA: 25s - loss: 0
ETA: 25s - loss: 0.0173 - accuracy: 0.997 - ETA: 25s - loss: 0.0172 - accuracy: 0.997 - ETA: 24s - loss: 0.0171 - accuracy: 0.997 - ET
A: 24s - loss: 0.0171 - accuracy: 0.997 - ETA: 24s - loss: 0.0170 - accuracy: 0.997 - ETA: 23s - loss: 0.0170 - accuracy: 0.997 - ETA:
23s - loss: 0.0169 - accuracy: 0.997 - ETA: 23s - loss: 0.0177 - accuracy: 0.997 - ETA: 22s - loss: 0.0176 - accuracy: 0.997 - ETA: 22
 s - loss: 0.0176 - accuracy: 0.997 - ETA: 22s - loss: 0.0175 - accuracy: 0.997 - ETA: 21s - loss: 0.0175 - accuracy: 0.997 - ETA: 21s
   - loss: 0.0174 - accuracy: 0.997 - ETA: 21s - loss: 0.0174 - accuracy: 0.997 - ETA: 20s - loss: 0.0173 - accuracy: 0.997 - ETA: 20s -
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 ss: 0.0178 - accuracy: 0.997 - ETA: 19s - loss: 0.0177 - accuracy: 0.997 - ETA: 18s - loss: 0.0177 - accuracy: 0.997 - ETA: 18s - loss
 s: 0.0176 - accuracy: 0.997 - ETA: 18s - loss: 0.0176 - accuracy: 0.997 - ETA: 17s - loss: 0.0175 - accuracy: 0.997 - ETA: 17s - loss:
 0.0175 - accuracy: 0.997 - ETA: 17s - loss: 0.0174 - accuracy: 0.997 - ETA: 16s - loss: 0.0174 - accuracy: 0.997 - ETA: 16s - loss: 0.
0173 - accuracy: 0.997 - ETA: 16s - loss: 0.0173 - accuracy: 0.997 - ETA: 16s - loss: 0.0172 - accuracy: 0.997 - ETA: 15s - loss: 0.01
72 - accuracy: 0.997 - ETA: 15s - loss: 0.0171 - accuracy: 0.997 - ETA: 15s - loss: 0.0171 - accuracy: 0.997 - ETA: 14s - loss: 0.0170
 - accuracy: 0.997 - ETA: 14s - loss: 0.0170 - accuracy: 0.997 - ETA: 14s - loss: 0.0169 - accuracy: 0.997 - ETA: 13s - loss: 0.0169 -
  accuracy: 0.997 - ETA: 13s - loss: 0.0168 - accuracy: 0.997 - ETA: 13s - loss: 0.0168 - accuracy: 0.997 - ETA: 12s - loss: 0.0167 - a
 ccuracy: 0.997 - ETA: 12s - loss: 0.0174 - accuracy: 0.997 - ETA: 12s - loss: 0.0173 - accuracy: 0.997 - ETA: 11s - loss: 0.0173 - acc
uracy: 0.997 - ETA: 11s - loss: 0.0173 - accuracy: 0.997 - ETA: 11s - loss: 0.0172 - accuracy: 0.997 - ETA: 10s - loss: 0.0172 - accur
acy: 0.997 - ETA: 10s - loss: 0.0171 - accuracy: 0.997 - ETA: 10s - loss: 0.0177 - accuracy: 0.997 - ETA: 9s - loss: 0.0177 - accuracy
y: 0.997 - ETA: 9s - loss: 0.0176 - accuracy: 0.99 - ETA: 9s - loss: 0.0176 - accuracy: 0.99 - ETA: 8s - loss: 0.0176 - accuracy: 0.99
 - ETA: 8s - loss: 0.0175 - accuracy: 0.99 - ETA: 8s - loss: 0.0175 - accuracy: 0.99 - ETA: 7s - loss: 0.0174 - accuracy: 0.99 - ETA: 7
s - loss: 0.0174 - accuracy: 0.99 - ETA: 7s - loss: 0.0173 - accuracy: 0.99 - ETA: 6s - loss: 0.0173 - accuracy: 0.99 - ETA: 6s - los
s: 0.0172 - accuracy: 0.99 - ETA: 6s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.0172 - accuracy: 0.99 - ETA: 5s - loss: 0.90 - accuracy: 0.99 - accuracy: 0.90 - accuracy: 0.90 - accuracy: 0
1 - accuracy: 0.99 - ETA: 5s - loss: 0.0171 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.99 - ETA: 4s - loss: 0.0170 - accuracy: 0.90 - ETA: 4s - loss: 0.0170 - accuracy: 0.90 - ETA: 4s - loss: 0.0170 - accuracy: 0.90 - ETA: 4s -
 racy: 0.99 - ETA: 4s - loss: 0.0169 - accuracy: 0.99 - ETA: 3s - loss: 0.0169 - accuracy: 0.99 - ETA: 3s - loss: 0.0181 - accuracy: 0.
 99 - ETA: 3s - loss: 0.0181 - accuracy: 0.99 - ETA: 2s - loss: 0.0180 - accuracy: 0.99 - ETA: 2s - loss: 0.0191 - accuracy: 0.99 - ET
99 - ETA: 35 - 1055: 0.0101 - accuracy: 0.99 - ETA: 25 - 1055: 0.0100 - accuracy: 0.99 - ETA: 25 - 1055: 0.0190 - accuracy: 0.99 - ETA: 15 - 1055: 0.0190 - accuracy: 0.99 - ETA: 15 - 1055: 0.0190 - accuracy: 0.99 - ETA: 05 - 1055: 0.0195 - accuracy: 0.99 - ETA: 05 - 1055: 0.0195 - accuracy: 0.99 - ETA: 05 - 1055: 0.0195 - accuracy: 0.99 - ETA: 05 - 1055: 0.0195 - accuracy: 0.99 - ETA: 05 - 1055: 0.0195 - accuracy: 0.99 - ETA: 05 - 1055: 0.0195 - accuracy: 0.99 - ETA: 05 - 1055: 0.0195 - accuracy: 0.99 - 1105 342ms/step - 1055: 0.0195 - accuracy: 0.9975 - val_loss: 0.0195 - accuracy: 0.9975 - val
 293 - val_accuracy: 0.9968
 Epoch 50/50
186/322 [========>............] - ETA: 0s - loss: 0.0153 - accuracy: 1.00 - ETA: 30s - loss: 0.0147 - accuracy: 1.000 - ETA:
   58s - loss: 0.0145 - accuracy: 1.000 - ETA: 56s - loss: 0.0141 - accuracy: 1.000 - ETA: 1:02 - loss: 0.0136 - accuracy: 1.00 - ETA:
   1:02 - loss: 0.0131 - accuracy: 1.00 - ETA: 1:02 - loss: 0.0126 - accuracy: 1.00 - ETA: 1:06 - loss: 0.0120 - accuracy: 1.00 - ETA:
   1:13 - loss: 0.0116 - accuracy: 1.00 - ETA: 1:10 - loss: 0.0112 - accuracy: 1.00 - ETA: 1:09 - loss: 0.0107 - accuracy: 1.00 - ETA:
   1:07 - loss: 0.0104 - accuracy: 1.00 - ETA: 1:05 - loss: 0.0100 - accuracy: 1.00 - ETA: 1:04 - loss: 0.0097 - accuracy: 1.00 - ETA:
```

1:03 - loss: 0.0093 - accuracy: 1.00 - ETA: 1:06 - loss: 0.0090 - accuracy: 1.00 - ETA: 1:05 - loss: 0.0087 - accuracy: 1.00 - ETA: 1:04 - loss: 0.0085 - accuracy: 1.00 - ETA: 1:03 - loss: 0.0082 - accuracy: 1.00 - ETA: 1:02 - loss: 0.0080 - accuracy: 1.00 - ETA: 1:01 - loss: 0.0077 - accuracy: 1.00 - ETA: 1:02 - loss: 0.0169 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0163 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0169 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0169 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0149 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0204 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0204 - accuracy: 0.99 - ETA: 1:05 - loss: 0.0194 -

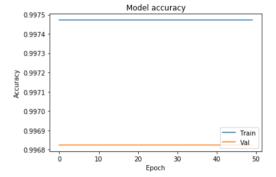
```
1:02 - loss: 0.0245 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0240 - accuracy: 0.99 - ETA: 1:03 - loss: 0.0234 - accuracy: 0.99 - ETA: 1:02 - loss: 0.0281 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0276 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0270 - 
 1:00 - loss: 0.0265 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0260 - accuracy: 0.99 - ETA: 1:01 - loss: 0.0256 - accuracy: 0.99 - ETA:
 1:00 - loss: 0.0251 - accuracy: 0.99 - ETA: 1:00 - loss: 0.0247 - accuracy: 0.99 - ETA: 59s - loss: 0.0243 - accuracy: 0.9972 - ETA:
 59s - loss: 0.0239 - accuracy: 0.997 - ETA: 59s - loss: 0.0235 - accuracy: 0.997 - ETA: 59s - loss: 0.0231 - accuracy: 0.997 - ETA: 5
9s - loss: 0.0265 - accuracy: 0.996 - ETA: 58s - loss: 0.0295 - accuracy: 0.996 - ETA: 58s - loss: 0.0291 - accuracy: 0.996 - ETA: 57s
- loss: 0.0287 - accuracy: 0.996 - ETA: 57s - loss: 0.0283 - accuracy: 0.996 - ETA: 57s - loss: 0.0279 - accuracy: 0.996 - ETA: 57s -
 loss: 0.0275 - accuracy: 0.996 - ETA: 57s - loss: 0.0272 - accuracy: 0.996 - ETA: 56s - loss: 0.0269 - accuracy: 0.996 - ETA: 56s - l
oss: 0.0265 - accuracy: 0.996 - ETA: 56s - loss: 0.0262 - accuracy: 0.996 - ETA: 55s - loss: 0.0259 - accuracy: 0.996 - ETA: 56s - los
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0.0246 - accuracy: 0.997 - ETA: 57s - loss: 0.0243 - accuracy: 0.997 - ETA: 58s - loss: 0.0240 - accuracy: 0.997 - ETA: 58s - loss: 0.
0237 - accuracy: 0.997 - ETA: 58s - loss: 0.0234 - accuracy: 0.997 - ETA: 58s - loss: 0.0231 - accuracy: 0.997 - ETA: 59s - loss: 0.02
28 - accuracy: 0.997 - ETA: 58s - loss: 0.0226 - accuracy: 0.997 - ETA: 58s - loss: 0.0223 - accuracy: 0.997 - ETA: 58s - loss: 0.0220
- accuracy: 0.997 - ETA: 58s - loss: 0.0218 - accuracy: 0.997 - ETA: 58s - loss: 0.0242 - accuracy: 0.997 - ETA: 58s - loss: 0.0239 -
 accuracy: 0.997 - ETA: 57s - loss: 0.0237 - accuracy: 0.997 - ETA: 57s - loss: 0.0234 - accuracy: 0.997 - ETA: 57s - loss: 0.0232 - a
ccuracy: 0.997 - ETA: 57s - loss: 0.0229 - accuracy: 0.997 - ETA: 57s - loss: 0.0253 - accuracy: 0.996 - ETA: 57s - loss: 0.0250 - acc
uracy: 0.996 - ETA: 56s - loss: 0.0247 - accuracy: 0.997 - ETA: 56s - loss: 0.0245 - accuracy: 0.997 - ETA: 56s - loss: 0.0243 - accur
acy: 0.997 - ETA: 56s - loss: 0.0241 - accuracy: 0.997 - ETA: 56s - loss: 0.0238 - accuracy: 0.997 - ETA: 56s - loss: 0.0236 - accuracy
y: 0.997 - ETA: 55s - loss: 0.0276 - accuracy: 0.996 - ETA: 55s - loss: 0.0294 - accuracy: 0.996 - ETA: 55s - loss: 0.0310 - accuracy:
0.995 - ETA: 55s - loss: 0.0307 - accuracy: 0.995 - ETA: 55s - loss: 0.0305 - accuracy: 0.995 - ETA: 54s - loss: 0.0319 - accuracy: 0.
995 - ETA: 54s - loss: 0.0331 - accuracy: 0.995 - ETA: 54s - loss: 0.0330 - accuracy: 0.995 - ETA: 53s - loss: 0.0330 - accuracy: 0.99
5 - ETA: 53s - loss: 0.0329 - accuracy: 0.995 - ETA: 53s - loss: 0.0328 - accuracy: 0.995 - ETA: 53s - loss: 0.0327 - accuracy: 0.995
 - ETA: 52s - loss: 0.0326 - accuracy: 0.995 - ETA: 52s - loss: 0.0325 - accuracy: 0.995 - ETA: 52s - loss: 0.0323 - accuracy: 0.995 -
ETA: 52s - loss: 0.0321 - accuracy: 0.995 - ETA: 51s - loss: 0.0320 - accuracy: 0.995 - ETA: 51s - loss: 0.0318 - accuracy: 0.995 - ETA
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50s - loss: 0.0309 - accuracy: 0.996 - ETA: 50s - loss: 0.0307 - accuracy: 0.996 - ETA: 50s - loss: 0.0308 - accuracy: 0.996 - ETA: 50s - loss: 0.0308 - accuracy: 0.996 - ETA: 50s - loss: 0.0308 - accuracy: 0.996 - ETA: 50s - loss: 0.0308 - accuracy: 0.996 - ETA: 50s
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60 - accuracy: 0.996 - ETA: 44s - loss: 0.0258 - accuracy: 0.996 - ETA: 44s - loss: 0.0256 - accuracy: 0.996 - ETA: 44s - loss: 0.0255
- accuracy: 0.996 - ETA: 43s - loss: 0.0253 - accuracy: 0.996 - ETA: 43s - loss: 0.0251 - accuracy: 0.996 - ETA: 43s - loss: 0.0250 -
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ccuracy: 0.996 - ETA: 42s - loss: 0.0243 - accuracy: 0.996 - ETA: 41s - loss: 0.0242 - accuracy: 0.997 - ETA: 41s - loss: 0.0240 - acc
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996 - ETA: 39s - loss: 0.0265 - accuracy: 0.996 - ETA: 38s - loss: 0.0264 - accuracy: 0.996 - ETA: 38s - loss: 0.0263 - accuracy: 0.99
6 - ETA: 38s - loss: 0.0262 - accuracy: 0.996 - ETA: 37s - loss: 0.0261 - accuracy: 0.996 - ETA: 37s - loss: 0.0260 - accuracy: 0.996
 - ETA: 37s - loss: 0.0258 - accuracy: 0.996 - ETA: 37s - loss: 0.0257 - accuracy: 0.996 - ETA: 36s - loss: 0.0256 - accuracy: 0.996 -
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 0.0213 - accuracy: 0.997 - ETA: 26s - loss: 0.0213 - accuracy: 0.997 - ETA: 26s - loss: 0.0212 - accuracy: 0.997 - ETA: 26s - loss:
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 0.0206 - accuracy: 0.997 - ETA: 24s - loss: 0.0205 - accuracy: 0.997 - ETA: 24s - loss: 0.0204 - accuracy: 0.997 - ETA: 24s - loss:
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 0.0211 - accuracy: 0.997 - ETA: 23s - loss: 0.0210 - accuracy: 0.997 - ETA: 23s - loss: 0.0209 - accuracy: 0.997 - ETA: 22s - loss:
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 0.0214 - accuracy: 0.997 - ETA: 21s - loss: 0.0221 - accuracy: 0.997 - ETA: 21s - loss: 0.0220 - accuracy: 0.997 - ETA: 21s - loss:
 0.0220 - accuracy: 0.997 - ETA: 21s - loss: 0.0226 - accuracy: 0.997 - ETA: 20s - loss: 0.0225 - accuracy: 0.997 - ETA: 20s - loss:
 0.0225 - accuracy: 0.997 - ETA: 20s - loss: 0.0224 - accuracy: 0.997 - ETA: 20s - loss: 0.0224 - accuracy: 0.997 - ETA: 19s - loss:
 0.0229 - accuracy: 0.997 - ETA: 19s - loss: 0.0229 - accuracy: 0.997 - ETA: 19s - loss: 0.0228 - accuracy: 0.997 - ETA: 19s - loss:
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 0.0227 - accuracy: 0.997 - ETA: 15s - loss: 0.0226 - accuracy: 0.997 - ETA: 15s - loss: 0.0226 - accuracy: 0.997 - ETA: 15s - loss:
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 0.0219 - accuracy: 0.997 - ETA: 12s - loss: 0.0219 - accuracy: 0.997 - ETA: 12s - loss: 0.0218 - accuracy: 0.997 - ETA: 12s - loss:
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 0.0215 - accuracy: 0.997 - ETA: 11s - loss: 0.0215 - accuracy: 0.997 - ETA: 10s - loss: 0.0214 - accuracy: 0.997 - ETA: 10s - loss:
 0.0213 - accuracy: 0.997 - ETA: 10s - loss: 0.0221 - accuracy: 0.997 - ETA: 10s - loss: 0.0220 - accuracy: 0.997 - ETA: 9s - loss: 0.
0219 - accuracy: 0.997 - ETA: 9s - loss: 0.0225 - accuracy: 0.99 - ETA: 9s - loss: 0.0225 - accuracy: 0.99 - ETA: 8s - loss: 0.0224 -
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y: 0.99 - ETA: 7s - loss: 0.0222 - accuracy: 0.99 - ETA: 7s - loss: 0.0221 - accuracy: 0.99 - ETA: 7s - loss: 0.0221 - accuracy: 0.99
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ss: 0.0216 - accuracy: 0.99 - ETA: 5s - loss: 0.0216 - accuracy: 0.99 - ETA: 4s - loss: 0.0215 - accuracy: 0.99 - ETA: 4s - loss: 0.0215 - accuracy: 0.99 - ETA: 4s - loss: 0.0214 - accuracy: 0.99 - ETA: 4s - loss: 0.0215
```

uracy: 0.99 - ETA: 3s - loss: 0.0212 - accuracy: 0.99 - ETA: 3s - loss: 0.0212 - accuracy: 0.99 - ETA: 2s - loss: 0.0211 - accuracy: 0.99 - ETA: 2s - loss: 0.0211 - accuracy: 0.99 - ETA: 2s - loss: 0.0211 - accuracy: 0.99 - ETA: 2s - loss: 0.0209 - accuracy: 0.99 - ETA: 2s - loss: 0.0209 - accuracy: 0.99 - ETA: 1s - loss: 0.0209 - accuracy: 0.99 - ETA: 1s - loss: 0.0208 - accuracy: 0.99 - ETA: 1s - loss: 0.0208 - accuracy: 0.99 - ETA: 0s - loss: 0.0207 - accuracy: 0.99 - ETA: 0s - loss: 0.0206 - accuracy: 0.99 - ETA: 0s - loss: 0.0205 - accuracy: 0.99 - ETA: 0s - loss: 0.0205 - accuracy: 0.99 - ETA: 0s - loss: 0.0205 - accuracy: 0.99 - ETA: 0s - loss: 0.0205 - accuracy: 0.9968

```
In [14]: plt.plot(hist_out.history['loss'])
    plt.plot(hist_out.history['val_loss'])
    plt.title('Model loss')
    plt.ylabel('Loss')
    plt.xlabel('Epoch')
    plt.legend(['Train', 'Val'], loc='upper right')
    plt.ylim(top=1.2, bottom=0)
    plt.show()
```



```
In [15]: plt.plot(hist_out.history['accuracy'])
    plt.plot(hist_out.history['val_accuracy'])
    plt.title('Model accuracy')
    plt.ylabel('Accuracy')
    plt.xlabel('Epoch')
    plt.legend(['Train', 'Val'], loc='lower right')
    plt.show()
```



C:\Users\Micky\Anaconda3\lib\site-packages\ipykernel_launcher.py:6: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame.
Try using .loc[row_indexer,col_indexer] = value instead

See the caveats in the documentation: http://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy

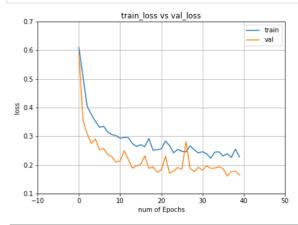
Final train data shape : (1000, 7)

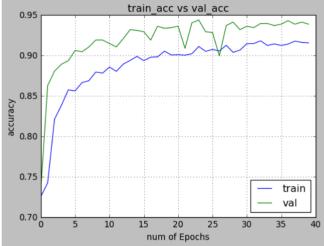
Out[58]:

	Unnamed: 0	X_ray_image_name	Label	Dataset_type	Label_2_Virus_category	Label_1_Virus_category	target
719	719	NORMAL2-IM-0564-0001.jpeg	Normal	TRAIN	NaN	NaN	negative
164	164	IM-0349-0001.jpeg	Normal	TRAIN	NaN	NaN	negative
561	561	IM-0722-0001.jpeg	Normal	TRAIN	NaN	NaN	negative
169	169	IM-0343-0001.jpeg	Normal	TRAIN	NaN	NaN	negative
1170	1170	NORMAL2-IM-1149-0001.jpeg	Normal	TRAIN	NaN	NaN	negative
558	558	IM-0728-0001.jpeg	Normal	TRAIN	NaN	NaN	negative
611	611	IM-0752-0001.jpeg	Normal	TRAIN	NaN	NaN	negative
256	256	IM-0467-0001.jpeg	Normal	TRAIN	NaN	NaN	negative
1286	1286	NORMAL2-IM-1311-0001.jpeg	Normal	TRAIN	NaN	NaN	negative
1102	1102	NORMAL2-IM-1064-0001.jpeg	Normal	TRAIN	NaN	NaN	negative

In [12]: model.compile(loss='categorical_crossentropy', optimizer='rmsprop',metrics=["accuracy"])

```
Epoch 1/40
293/293 [===
         Epoch 2/40
        293/293 [==:
Epoch 3/40
              ==========] - 4s 14ms/step - loss: 0.4049 - accuracy: 0.8211 - val loss: 0.3092 - val accuracy: 0.8805
293/293 [==
Fnoch 4/40
Fnoch 5/40
293/293 [==
             Epoch 6/40
293/293 [===
             ================ ] - 4s 14ms/step - loss: 0.3311 - accuracy: 0.8561 - val_loss: 0.2526 - val_accuracy: 0.9061
Epoch 7/40
293/293 [==
                  :========] - 4s 14ms/step - loss: 0.3344 - accuracy: 0.8664 - val_loss: 0.2569 - val_accuracy: 0.9044
Epoch 8/40
293/293 [===
              Epoch 9/40
293/293 [===
               ==========] - 4s 13ms/step - loss: 0.3055 - accuracy: 0.8794 - val_loss: 0.2280 - val_accuracy: 0.9189
Epoch 10/40
293/293 [===
                  :========] - 4s 13ms/step - loss: 0.3021 - accuracy: 0.8781 - val_loss: 0.2092 - val_accuracy: 0.9189
Epoch 11/40
293/293 [===
              ==========] - 4s 14ms/step - loss: 0.2926 - accuracy: 0.8856 - val_loss: 0.2140 - val_accuracy: 0.9147
Epoch 12/40
293/293 [====
            :==================== - 4s 13ms/step - loss: 0.2955 - accuracy: 0.8802 - val loss: 0.2491 - val accuracy: 0.9104
Epoch 13/40
             =========== ] - 4s 13ms/step - loss: 0.2951 - accuracy: 0.8892 - val loss: 0.2191 - val accuracy: 0.9206
293/293 [===
Epoch 14/40
293/293 [===========] - 4s 13ms/step - loss: 0.2740 - accuracy: 0.8937 - val loss: 0.1886 - val accuracy: 0.9317
Epoch 15/40
293/293 [==========] - 4s 14ms/step - loss: 0.2640 - accuracy: 0.8988 - val loss: 0.1960 - val accuracy: 0.9309
Fnoch 16/40
293/293 [====
             =========== ] - 4s 13ms/step - loss: 0.2702 - accuracy: 0.8935 - val loss: 0.2015 - val accuracy: 0.9292
Enoch 17/40
         293/293 [=====
Epoch 18/40
accuracy - ETA
Epoch 19/40
293/293 [===
              Epoch 20/40
293/293 [===
                :========] - 4s 13ms/step - loss: 0.2526 - accuracy: 0.9005 - val_loss: 0.1745 - val_accuracy: 0.9343
Epoch 21/40
293/293 [===
                       =====] - 4s 13ms/step - loss: 0.2556 - accuracy: 0.9009 - val_loss: 0.1819 - val_accuracy: 0.9360
Epoch 22/40
293/293 [===
               :=========] - 4s 14ms/step - loss: 0.2827 - accuracy: 0.9003 - val_loss: 0.2299 - val_accuracy: 0.9087
Epoch 23/40
.
293/293 [==:
              Epoch 24/40
293/293 [====
          Epoch 25/40
293/293 [===
              Epoch 26/40
293/293 [============] - 4s 13ms/step - loss: 0.2471 - accuracy: 0.9073 - val loss: 0.1840 - val accuracy: 0.9283
Epoch 27/40
              ==========] - 4s 13ms/step - loss: 0.2450 - accuracy: 0.9054 - val loss: 0.2809 - val accuracy: 0.8993
293/293 [===
Fnoch 28/40
293/293 [===
              ========= ] - 4s 13ms/step - loss: 0.2663 - accuracy: 0.9125 - val loss: 0.1877 - val accuracy: 0.9369
Enoch 29/40
293/293 [============ - 4s 13ms/step - loss: 0.2523 - accuracy: 0.9037 - val loss: 0.1760 - val accuracy: 0.9411
Epoch 30/40
293/293 [===
                =========] - 4s 13ms/step - loss: 0.2414 - accuracy: 0.9065 - val_loss: 0.1916 - val_accuracy: 0.9317
Epoch 31/40
293/293 [====
             ==========] - 4s 13ms/step - loss: 0.2458 - accuracy: 0.9144 - val_loss: 0.1810 - val_accuracy: 0.9360
Epoch 32/40
293/293 [===
                   ========] - 4s 13ms/step - loss: 0.2387 - accuracy: 0.9146 - val_loss: 0.1965 - val_accuracy: 0.9343
Epoch 33/40
293/293 [======
             Epoch 34/40
293/293 [===
                :========] - 4s 13ms/step - loss: 0.2443 - accuracy: 0.9123 - val_loss: 0.1889 - val_accuracy: 0.9394
Epoch 35/40
Epoch 36/40
293/293 [====
           ===========] - 4s 13ms/step - loss: 0.2307 - accuracy: 0.9123 - val_loss: 0.1868 - val_accuracy: 0.9386
Epoch 37/40
293/293 [===
              =========] - 4s 13ms/step - loss: 0.2388 - accuracy: 0.9140 - val_loss: 0.1607 - val_accuracy: 0.9428
Epoch 38/40
293/293 [====
           Epoch 39/40
293/293 [===
              ===========] - 4s 14ms/step - loss: 0.2546 - accuracy: 0.9161 - val loss: 0.1783 - val accuracy: 0.9411
Epoch 40/40
293/293 [============] - 4s 13ms/step - loss: 0.2274 - accuracy: 0.9155 - val loss: 0.1648 - val accuracy: 0.9386
```





Effective Net80 Training and testing

```
In [11]: image_input = Input(shape=(224, 224, 3))
    model = EfficientNetB0(input_tensor=image_input, include_top=True,weights='imagenet')
    model.summary()
    last_layer = model.get_layer('avg_pool').output
    x= Flatten(name='flatten')(last_layer)
    out = Dense(num_classes, activation='softmax', name='output_layer')(x)
    custom_resnet_model = Model(inputs=image_input,outputs= out)
    custom_resnet_model.summary()
```

Model. efficientietbe			
Layer (type)	Output Shape	Param #	Connected to
input_1 (InputLayer)	[(None, 224, 224, 3)		
rescaling (Rescaling)	(None, 224, 224, 3)	0	input_1[0][0]
normalization (Normalization)	(None, 224, 224, 3)	7	rescaling[0][0]
stem_conv_pad (ZeroPadding2D)	(None, 225, 225, 3)	0	normalization[0][0]
stem_conv (Conv2D)	(None, 112, 112, 32)	864	stem_conv_pad[0][0]
stem_bn (BatchNormalization)	(None, 112, 112, 32)	128	stem_conv[0][0]
stem_activation (Activation)	(None, 112, 112, 32)	0	stem_bn[0][0]
block1a_dwconv (DepthwiseConv2D	(None, 112, 112, 32)	288	stem_activation[0][0]
block1a_bn (BatchNormalization)	(None, 112, 112, 32)	128	block1a_dwconv[0][0]
block1a_activation (Activation)	(None, 112, 112, 32)	0	block1a_bn[0][0]
block1a_se_squeeze (GlobalAvera	(None, 32)	0	block1a_activation[0][0]
block1a_se_reshape (Reshape)	(None, 1, 1, 32)	0	block1a_se_squeeze[0][0]
block1a_se_reduce (Conv2D)	(None, 1, 1, 8)	264	block1a_se_reshape[0][0]
block1a_se_expand (Conv2D)	(None, 1, 1, 32)	288	block1a_se_reduce[0][0]
block1a_se_excite (Multiply)	(None, 112, 112, 32)	0	block1a_activation[0][0] block1a_se_expand[0][0]
block1a_project_conv (Conv2D)	(None, 112, 112, 16)	512	block1a_se_excite[0][0]
block1a_project_bn (BatchNormal	(None, 112, 112, 16)	64	block1a_project_conv[0][0]
block2a_expand_conv (Conv2D)	(None, 112, 112, 96)	1536	block1a_project_bn[0][0]
block2a_expand_bn (BatchNormali	(None, 112, 112, 96)	384	block2a_expand_conv[0][0]
block2a_expand_activation (Acti	(None, 112, 112, 96)	0	block2a_expand_bn[0][0]
block2a_dwconv_pad (ZeroPadding	(None, 113, 113, 96)	0	block2a_expand_activation[0][0]
block2a_dwconv (DepthwiseConv2D	(None, 56, 56, 96)	864	block2a_dwconv_pad[0][0]
block2a_bn (BatchNormalization)	(None, 56, 56, 96)	384	block2a_dwconv[0][0]
block2a_activation (Activation)	(None, 56, 56, 96)	0	block2a_bn[0][0]
block2a_se_squeeze (GlobalAvera	(None, 96)	0	block2a_activation[0][0]
block2a_se_reshape (Reshape)	(None, 1, 1, 96)	0	block2a_se_squeeze[0][0]
block2a_se_reduce (Conv2D)	(None, 1, 1, 4)	388	block2a_se_reshape[0][0]
block2a_se_expand (Conv2D)	(None, 1, 1, 96)	480	block2a_se_reduce[0][0]
block2a_se_excite (Multiply)	(None, 56, 56, 96)	0	block2a_activation[0][0] block2a_se_expand[0][0]
block2a project conv (Conv2D)	(None, 56, 56, 24)	2304	block2a_se_excite[0][0]
block2a_project_bn (BatchNormal		96	block2a_project_conv[0][0]
block2b_expand_conv (Conv2D)	(None, 56, 56, 144)	3456	block2a_project_bn[0][0]
block2b expand bn (BatchNormali		576	block2b_expand_conv[0][0]
block2b_expand_activation (Acti		0	block2b_expand_bn[0][0]
block2b dwconv (DepthwiseConv2D		1296	block2b_expand_activation[0][0]
block2b_bn (BatchNormalization)		576	block2b_dwconv[0][0]
block2b activation (Activation)		0	block2b_bn[0][0]
block2b_se_squeeze (GlobalAvera		0	block2b_activation[0][0]
block2b_se_reshape (Reshape)	(None, 1, 1, 144)	0	block2b_se_squeeze[0][0]
block2b_se_reduce (Conv2D)	(None, 1, 1, 6)	870	block2b_se_reshape[0][0]
block2b_se_expand (Conv2D)	(None, 1, 1, 144)	1008	block2b_se_reduce[0][0]
block2b_se_excite (Multiply)	(None, 56, 56, 144)	0	block2b_activation[0][0]
DIDENTIFY)	(50, 50, 144)	J	block2b_se_expand[0][0]

block2b_project_conv (Conv2D)		56, 56, 24)	3456	block2b_se_excite[0][0]
block2b_project_bn (BatchNormal	(None,	56, 56, 24)	96	block2b_project_conv[0][0]
block2b_drop (Dropout)		56, 56, 24)	0	block2b_project_bn[0][0]
block2b_add (Add)	(None,	56, 56, 24)	0	block2b_drop[0][0] block2a_project_bn[0][0]
block3a_expand_conv (Conv2D)	(None,	56, 56, 144)	3456	block2b_add[0][0]
block3a_expand_bn (BatchNormali	(None,	56, 56, 144)	576	block3a_expand_conv[0][0]
block3a_expand_activation (Acti	(None,	56, 56, 144)	0	block3a_expand_bn[0][0]
block3a_dwconv_pad (ZeroPadding	(None,	59, 59, 144)	0	block3a_expand_activation[0][0]
block3a_dwconv (DepthwiseConv2D	(None,	28, 28, 144)	3600	block3a_dwconv_pad[0][0]
block3a_bn (BatchNormalization)	(None,	28, 28, 144)	576	block3a_dwconv[0][0]
block3a_activation (Activation)	(None,	28, 28, 144)	0	block3a_bn[0][0]
block3a_se_squeeze (GlobalAvera	(None,	144)	0	block3a_activation[0][0]
block3a_se_reshape (Reshape)	(None,	1, 1, 144)	0	block3a_se_squeeze[0][0]
block3a_se_reduce (Conv2D)	(None,	1, 1, 6)	870	block3a_se_reshape[0][0]
block3a_se_expand (Conv2D)	(None,	1, 1, 144)	1008	block3a_se_reduce[0][0]
block3a_se_excite (Multiply)	(None,	28, 28, 144)	0	block3a_activation[0][0] block3a_se_expand[0][0]
block3a_project_conv (Conv2D)	(None,	28, 28, 40)	5760	block3a_se_excite[0][0]
block3a_project_bn (BatchNormal	(None,	28, 28, 40)	160	block3a_project_conv[0][0]
block3b_expand_conv (Conv2D)	(None,	28, 28, 240)	9600	block3a_project_bn[0][0]
block3b_expand_bn (BatchNormali	(None,	28, 28, 240)	960	block3b_expand_conv[0][0]
block3b_expand_activation (Acti	(None,	28, 28, 240)	0	block3b_expand_bn[0][0]
block3b_dwconv (DepthwiseConv2D	(None,	28, 28, 240)	6000	block3b_expand_activation[0][0]
block3b_bn (BatchNormalization)	(None,	28, 28, 240)	960	block3b_dwconv[0][0]
block3b_activation (Activation)	(None,	28, 28, 240)	0	block3b_bn[0][0]
block3b_se_squeeze (GlobalAvera	(None,	240)	0	block3b_activation[0][0]
block3b_se_reshape (Reshape)	(None,	1, 1, 240)	0	block3b_se_squeeze[0][0]
block3b_se_reduce (Conv2D)	(None,	1, 1, 10)	2410	block3b_se_reshape[0][0]
block3b_se_expand (Conv2D)	(None,	1, 1, 240)	2640	block3b_se_reduce[0][0]
block3b_se_excite (Multiply)	(None,	28, 28, 240)	0	block3b_activation[0][0]
				block3b_se_expand[0][0]
block3b_project_conv (Conv2D)	(None,	28, 28, 40)	9600	block3b_se_excite[0][0]
block3b_project_bn (BatchNormal	(None,	28, 28, 40)	160	block3b_project_conv[0][0]
block3b_drop (Dropout)	(None,	28, 28, 40)	0	block3b_project_bn[0][0]
block3b_add (Add)	(None,	28, 28, 40)	0	block3b_drop[0][0] block3a_project_bn[0][0]
block4a_expand_conv (Conv2D)	(None,	28, 28, 240)	9600	block3b_add[0][0]
block4a_expand_bn (BatchNormali	(None,	28, 28, 240)	960	block4a_expand_conv[0][0]
block4a_expand_activation (Acti	(None,	28, 28, 240)	0	block4a_expand_bn[0][0]
block4a_dwconv_pad (ZeroPadding	(None,	29, 29, 240)	0	block4a_expand_activation[0][0]
block4a_dwconv (DepthwiseConv2D	(None,	14, 14, 240)	2160	block4a_dwconv_pad[0][0]
block4a_bn (BatchNormalization)	(None,	14, 14, 240)	960	block4a_dwconv[0][0]
block4a_activation (Activation)	(None,	14, 14, 240)	0	block4a_bn[0][0]
block4a_se_squeeze (GlobalAvera	(None,	240)	0	block4a_activation[0][0]
block4a_se_reshape (Reshape)	(None,	1, 1, 240)	0	block4a_se_squeeze[0][0]
block4a_se_reduce (Conv2D)	(None,	1, 1, 10)	2410	block4a_se_reshape[0][0]
block4a_se_expand (Conv2D)	(None,	1, 1, 240)	2640	block4a_se_reduce[0][0]

block4a_se_excite (Multiply)	(None, 14	4, 14, 240)	0	block4a_activation[0][0] block4a_se_expand[0][0]
block4a_project_conv (Conv2D)	(None, 14	4, 14, 80)	19200	block4a_se_excite[0][0]
block4a_project_bn (BatchNormal	(None, 14	4, 14, 80)	320	block4a_project_conv[0][0]
block4b_expand_conv (Conv2D)	(None, 14	4, 14, 480)	38400	block4a_project_bn[0][0]
block4b_expand_bn (BatchNormali	(None, 14	4, 14, 480)	1920	block4b_expand_conv[0][0]
block4b_expand_activation (Acti	(None, 14	4, 14, 480)	0	block4b_expand_bn[0][0]
block4b_dwconv (DepthwiseConv2D	(None, 14	4, 14, 480)	4320	block4b_expand_activation[0][0]
block4b_bn (BatchNormalization)	(None, 14	4, 14, 480)	1920	block4b_dwconv[0][0]
block4b_activation (Activation)	(None, 14	4, 14, 480)	0	block4b_bn[0][0]
block4b_se_squeeze (GlobalAvera	(None, 48	80)	0	block4b_activation[0][0]
block4b_se_reshape (Reshape)	(None, 1	, 1, 480)	0	block4b_se_squeeze[0][0]
block4b_se_reduce (Conv2D)	(None, 1	, 1, 20)	9620	block4b_se_reshape[0][0]
block4b_se_expand (Conv2D)	(None, 1	, 1, 480)	10080	block4b_se_reduce[0][0]
block4b_se_excite (Multiply)	(None, 14	4, 14, 480)	0	block4b_activation[0][0] block4b_se_expand[0][0]
block4b_project_conv (Conv2D)	(None, 14	4, 14, 80)	38400	block4b_se_excite[0][0]
block4b_project_bn (BatchNormal	(None, 14	4, 14, 80)	320	block4b_project_conv[0][0]
block4b_drop (Dropout)	(None, 14	4, 14, 80)	0	block4b_project_bn[0][0]
block4b_add (Add)	(None, 14	4, 14, 80)	0	block4b_drop[0][0] block4a_project_bn[0][0]
block4c_expand_conv (Conv2D)	(None, 14	4, 14, 480)	38400	block4b_add[0][0]
block4c_expand_bn (BatchNormali	(None, 14	4, 14, 480)	1920	block4c_expand_conv[0][0]
block4c_expand_activation (Acti	(None, 14	4, 14, 480)	0	block4c_expand_bn[0][0]
block4c_dwconv (DepthwiseConv2D	(None, 14	4, 14, 480)	4320	block4c_expand_activation[0][0]
block4c_bn (BatchNormalization)	(None, 14	4, 14, 480)	1920	block4c_dwconv[0][0]
block4c_activation (Activation)	(None, 14	4, 14, 480)	0	block4c_bn[0][0]
block4c_se_squeeze (GlobalAvera	(None, 48	80)	0	block4c_activation[0][0]
block4c_se_reshape (Reshape)	(None, 1	, 1, 480)	0	block4c_se_squeeze[0][0]
block4c_se_reduce (Conv2D)	(None, 1	, 1, 20)	9620	block4c_se_reshape[0][0]
block4c_se_expand (Conv2D)	(None, 1	, 1, 480)	10080	block4c_se_reduce[0][0]
block4c_se_excite (Multiply)	(None, 14	4, 14, 480)	0	block4c_activation[0][0] block4c_se_expand[0][0]
block4c_project_conv (Conv2D)	(None, 14	4, 14, 80)	38400	block4c_se_excite[0][0]
block4c_project_bn (BatchNormal	(None, 14	4, 14, 80)	320	block4c_project_conv[0][0]
block4c_drop (Dropout)	(None, 14	4, 14, 80)	0	block4c_project_bn[0][0]
block4c_add (Add)	(None, 14	4, 14, 80)	0	block4c_drop[0][0] block4b_add[0][0]
block5a_expand_conv (Conv2D)	(None, 14	4, 14, 480)	38400	block4c_add[0][0]
block5a_expand_bn (BatchNormali	(None, 14	4, 14, 480)	1920	block5a_expand_conv[0][0]
block5a_expand_activation (Acti	(None, 14	4, 14, 480)	0	block5a_expand_bn[0][0]
block5a_dwconv (DepthwiseConv2D	(None, 14	4, 14, 480)	12000	block5a_expand_activation[0][0]
block5a_bn (BatchNormalization)	(None, 14	4, 14, 480)	1920	block5a_dwconv[0][0]
block5a_activation (Activation)	(None, 14	4, 14, 480)	0	block5a_bn[0][0]
block5a_se_squeeze (GlobalAvera	(None, 48	80)	0	block5a_activation[0][0]
block5a_se_reshape (Reshape)	(None, 1	, 1, 480)	0	block5a_se_squeeze[0][0]
block5a_se_reduce (Conv2D)	(None, 1	, 1, 20)	9620	block5a_se_reshape[0][0]
block5a_se_expand (Conv2D)	(None, 1	, 1, 480)	10080	block5a_se_reduce[0][0]

	,			
block5a_se_excite (Multiply)	(None, 1	14, 14, 480)	0	<pre>block5a_activation[0][0] block5a_se_expand[0][0]</pre>
block5a_project_conv (Conv2D)	(None, 1	14, 14, 112)	53760	block5a_se_excite[0][0]
block5a_project_bn (BatchNormal	(None, 1	14, 14, 112)	448	block5a_project_conv[0][0]
block5b_expand_conv (Conv2D)	(None, 1	14, 14, 672)	75264	block5a_project_bn[0][0]
block5b_expand_bn (BatchNormali	(None, 1	14, 14, 672)	2688	block5b_expand_conv[0][0]
block5b_expand_activation (Acti	(None, 1	14, 14, 672)	0	block5b_expand_bn[0][0]
block5b_dwconv (DepthwiseConv2D	(None, 1	14, 14, 672)	16800	block5b_expand_activation[0][0]
block5b_bn (BatchNormalization)	(None, 1	14, 14, 672)	2688	block5b_dwconv[0][0]
block5b_activation (Activation)	(None, 1	14, 14, 672)	0	block5b_bn[0][0]
block5b_se_squeeze (GlobalAvera	(None, 6	572)	0	block5b_activation[0][0]
block5b_se_reshape (Reshape)	(None, 1	1, 1, 672)	0	block5b_se_squeeze[0][0]
block5b_se_reduce (Conv2D)	(None, 1	1, 1, 28)	18844	block5b_se_reshape[0][0]
block5b_se_expand (Conv2D)	(None, 1	1, 1, 672)	19488	block5b_se_reduce[0][0]
block5b_se_excite (Multiply)	(None, 1	14, 14, 672)	0	block5b_activation[0][0] block5b_se_expand[0][0]
block5b_project_conv (Conv2D)	(None, 1	14, 14, 112)	75264	block5b_se_excite[0][0]
block5b_project_bn (BatchNormal	(None, 1	14, 14, 112)	448	block5b_project_conv[0][0]
block5b_drop (Dropout)	(None, 1	14, 14, 112)	0	block5b_project_bn[0][0]
block5b_add (Add)	(None, 1	14, 14, 112)	0	block5b_drop[0][0] block5a_project_bn[0][0]
block5c_expand_conv (Conv2D)	(None, 1	14, 14, 672)	75264	block5b_add[0][0]
block5c_expand_bn (BatchNormali	(None, 1	14, 14, 672)	2688	block5c_expand_conv[0][0]
block5c_expand_activation (Acti	(None, 1	14, 14, 672)	0	block5c_expand_bn[0][0]
block5c_dwconv (DepthwiseConv2D	(None, 1	14, 14, 672)	16800	block5c_expand_activation[0][0]
block5c_bn (BatchNormalization)	(None, 1	14, 14, 672)	2688	block5c_dwconv[0][0]
block5c_activation (Activation)	(None, 1	14, 14, 672)	0	block5c_bn[0][0]
block5c_se_squeeze (GlobalAvera	(None, 6	572)	0	block5c_activation[0][0]
block5c_se_reshape (Reshape)	(None, 1	1, 1, 672)	0	block5c_se_squeeze[0][0]
block5c_se_reduce (Conv2D)	(None, 1	1, 1, 28)	18844	block5c_se_reshape[0][0]
block5c_se_expand (Conv2D)	(None, 1	1, 1, 672)	19488	block5c_se_reduce[0][0]
block5c_se_excite (Multiply)	(None, 1	14, 14, 672)	0	block5c_activation[0][0]
				block5c_se_expand[0][0]
block5c_project_conv (Conv2D)		14, 14, 112)	75264	block5c_se_excite[0][0]
block5c_project_bn (BatchNormal			448	block5c_project_conv[0][0]
block5c_drop (Dropout)		14, 14, 112)	0	block5c_project_bn[0][0]
block5c_add (Add)	(None, 1	14, 14, 112)	0	block5c_drop[0][0] block5b_add[0][0]
block6a_expand_conv (Conv2D)	(None, 1	14, 14, 672)	75264	block5c_add[0][0]
block6a_expand_bn (BatchNormali	(None, 1	14, 14, 672)	2688	block6a_expand_conv[0][0]
block6a_expand_activation (Acti	(None, 1	14, 14, 672)	0	block6a_expand_bn[0][0]
block6a_dwconv_pad (ZeroPadding	(None, 1	17, 17, 672)	0	block6a_expand_activation[0][0]
block6a_dwconv (DepthwiseConv2D	(None, 7	7, 7, 672)	16800	block6a_dwconv_pad[0][0]
block6a_bn (BatchNormalization)	(None, 7	7, 7, 672)	2688	block6a_dwconv[0][0]
block6a_activation (Activation)	(None, 7	7, 7, 672)	0	block6a_bn[0][0]
block6a_se_squeeze (GlobalAvera	(None, 6	572)	0	block6a_activation[0][0]
block6a_se_reshape (Reshape)	(None, 1	1, 1, 672)	0	block6a_se_squeeze[0][0]
block6a_se_reduce (Conv2D)	(None, 1	1, 1, 28)	18844	block6a_se_reshape[0][0]

block6a se expand (Conv2D)	(None,	1	1	672)	19488	block6a se reduce[0][0]
block6a se excite (Multiply)	(None,				0	block6a activation[0][0]
blockba_se_excite (Multiply)	(None,	7,	΄,	672)	V	block6a_se_expand[0][0]
block6a_project_conv (Conv2D)	(None,	7,	7,	192)	129024	block6a_se_excite[0][0]
block6a_project_bn (BatchNormal	(None,	7,	7,	192)	768	block6a_project_conv[0][0]
block6b_expand_conv (Conv2D)	(None,	7,	7,	1152)	221184	block6a_project_bn[0][0]
block6b_expand_bn (BatchNormali	(None,	7,	7,	1152)	4608	block6b_expand_conv[0][0]
block6b_expand_activation (Acti	(None,	7,	7,	1152)	0	block6b_expand_bn[0][0]
block6b_dwconv (DepthwiseConv2D	(None,	7,	7,	1152)	28800	block6b_expand_activation[0][0]
block6b_bn (BatchNormalization)	(None,	7,	7,	1152)	4608	block6b_dwconv[0][0]
block6b_activation (Activation)	(None,	7,	7,	1152)	0	block6b_bn[0][0]
block6b_se_squeeze (GlobalAvera	(None,	115	2)		0	block6b_activation[0][0]
block6b_se_reshape (Reshape)	(None,	1,	1,	1152)	0	block6b_se_squeeze[0][0]
block6b_se_reduce (Conv2D)	(None,	1,	1,	48)	55344	block6b_se_reshape[0][0]
block6b_se_expand (Conv2D)	(None,	1,	1,	1152)	56448	block6b_se_reduce[0][0]
block6b_se_excite (Multiply)	(None,	7,	7,	1152)	0	block6b_activation[0][0] block6b_se_expand[0][0]
block6b_project_conv (Conv2D)	(None,	7,	7,	192)	221184	block6b_se_excite[0][0]
block6b_project_bn (BatchNormal	(None,	7,	7,	192)	768	block6b_project_conv[0][0]
block6b_drop (Dropout)	(None,	7,	7,	192)	0	block6b_project_bn[0][0]
block6b_add (Add)	(None,	7,	7,	192)	0	block6b_drop[0][0] block6a_project_bn[0][0]
block6c_expand_conv (Conv2D)	(None,	7,	7,	1152)	221184	block6b_add[0][0]
block6c_expand_bn (BatchNormali	(None,	7,	7,	1152)	4608	block6c_expand_conv[0][0]
block6c_expand_activation (Acti	(None,	7,	7,	1152)	0	block6c_expand_bn[0][0]
block6c_dwconv (DepthwiseConv2D	(None,	7,	7,	1152)	28800	block6c_expand_activation[0][0]
block6c_bn (BatchNormalization)						
STOCKOC_DIT (Datcillation liaitzacion)	(None,	7,	7,	1152)	4608	block6c_dwconv[0][0]
block6c_activation (Activation)					4608	block6c_dwconv[0][0] block6c_bn[0][0]
	(None,	7,	7,			
block6c_activation (Activation)	(None,	7,	7,	1152)	0	block6c_bn[0][0]
block6c_activation (Activation) block6c_se_squeeze (GlobalAvera	(None,	7, 115	7, (2)	1152)	0	block6c_bn[0][0] block6c_activation[0][0]
block6c_activation (Activation) block6c_se_squeeze (GlobalAvera block6c_se_reshape (Reshape)	(None, (None,	7, 115 1,	7, (2) 1,	1152) 1152) 48)	0 0	block6c_bn[0][0] block6c_activation[0][0] block6c_se_squeeze[0][0]
block6c_activation (Activation) block6c_se_squeeze (GlobalAvera block6c_se_reshape (Reshape) block6c_se_reduce (Conv2D)	(None, (None, (None,	7, 115 1, 1,	7, (2) 1, 1,	1152) 1152) 48) 1152)	0 0 0 55344	block6c_bn[0][0] block6c_activation[0][0] block6c_se_squeeze[0][0] block6c_se_reshape[0][0]
block6c_activation (Activation) block6c_se_squeeze (GlobalAvera block6c_se_reshape (Reshape) block6c_se_reduce (Conv2D) block6c_se_expand (Conv2D)	(None, (None, (None,	7, 115 1, 1, 7,	7, 52) 1, 1,	1152) 48) 1152) 1152)	0 0 0 55344 56448	block6c_bn[0][0] block6c_activation[0][0] block6c_se_squeeze[0][0] block6c_se_reshape[0][0] block6c_se_reduce[0][0] block6c_activation[0][0]
block6c_activation (Activation) block6c_se_squeeze (GlobalAvera block6c_se_reshape (Reshape) block6c_se_reduce (Conv2D) block6c_se_expand (Conv2D) block6c_se_expand (Multiply)	(None, (None, (None, (None, (None, (None,	7, 115 1, 1, 7,	7, 52) 1, 1, 7,	1152) 1152) 48) 1152) 1152)	0 0 0 55344 56448	block6c_bn[0][0] block6c_activation[0][0] block6c_se_squeeze[0][0] block6c_se_reshape[0][0] block6c_se_reduce[0][0] block6c_activation[0][0] block6c_se_expand[0][0]
block6c_activation (Activation) block6c_se_squeeze (GlobalAvera block6c_se_reshape (Reshape) block6c_se_reduce (Conv2D) block6c_se_expand (Conv2D) block6c_se_excite (Multiply) block6c_project_conv (Conv2D)	(None, (None, (None, (None, (None, (None,	7, 115 1, 1, 7, 7,	7, 52) 1, 1, 7,	1152) 1152) 48) 1152) 1152) 1152) 192)	θθθ5534456448θ221184	block6c_bn[0][0] block6c_activation[0][0] block6c_se_squeeze[0][0] block6c_se_reshape[0][0] block6c_se_reduce[0][0] block6c_activation[0][0] block6c_se_expand[0][0] block6c_se_excite[0][0]
block6c_activation (Activation) block6c_se_squeeze (GlobalAvera block6c_se_reshape (Reshape) block6c_se_reduce (Conv2D) block6c_se_expand (Conv2D) block6c_se_excite (Multiply) block6c_project_conv (Conv2D) block6c_project_bn (BatchNormal	(None, (None, (None, (None, (None, (None, (None, (None,	7, 115 1, 1, 7, 7, 7,	7, (2) 1, 1, 7, 7,	1152) 48) 1152) 1152) 1152) 1192) 192)	θθθ5534456448θ221184768	block6c_bn[0][0] block6c_activation[0][0] block6c_se_squeeze[0][0] block6c_se_reshape[0][0] block6c_se_reduce[0][0] block6c_activation[0][0] block6c_se_expand[0][0] block6c_se_excite[0][0] block6c_project_conv[0][0]
block6c_activation (Activation) block6c_se_squeeze (GlobalAvera block6c_se_reshape (Reshape) block6c_se_reduce (Conv2D) block6c_se_expand (Conv2D) block6c_se_excite (Multiply) block6c_project_conv (Conv2D) block6c_project_bn (BatchNormal block6c_drop (Dropout)	(None,	7, 115 1, 1, 7, 7, 7, 7, 7,	7, 52) 1, 1, 7, 7, 7,	1152) 48) 1152) 1152) 1152) 192) 192) 192)	0 0 0 55344 56448 0 221184 768	block6c_bn[0][0] block6c_activation[0][0] block6c_se_squeeze[0][0] block6c_se_reshape[0][0] block6c_se_reduce[0][0] block6c_activation[0][0] block6c_se_expand[0][0] block6c_se_excite[0][0] block6c_project_conv[0][0] block6c_drop[0][0]
block6c_activation (Activation) block6c_se_squeeze (GlobalAvera block6c_se_reshape (Reshape) block6c_se_reduce (Conv2D) block6c_se_expand (Conv2D) block6c_se_excite (Multiply) block6c_project_conv (Conv2D) block6c_project_bn (BatchNormal block6c_drop (Dropout) block6c_add (Add)	(None,	7, 115 1, 1, 7, 7, 7, 7, 7,	7, 52) 1, 1, 7, 7, 7, 7,	1152) 48) 1152) 1152) 1152) 192) 192) 192) 1152)	0 0 0 55344 56448 0 221184 768 0	block6c_bn[0][0] block6c_activation[0][0] block6c_se_squeeze[0][0] block6c_se_reshape[0][0] block6c_se_reduce[0][0] block6c_activation[0][0] block6c_se_expand[0][0] block6c_se_excite[0][0] block6c_project_conv[0][0] block6c_project_bn[0][0] block6c_drop[0][0] block6c_drop[0][0]
block6c_activation (Activation) block6c_se_squeeze (GlobalAvera block6c_se_reshape (Reshape) block6c_se_reduce (Conv2D) block6c_se_expand (Conv2D) block6c_se_excite (Multiply) block6c_project_conv (Conv2D) block6c_project_bn (BatchNormal block6c_drop (Dropout) block6c_add (Add) block6d_expand_conv (Conv2D)	(None,	7, 115 1, 1, 7, 7, 7, 7, 7, 7, 7,	7, (2) 1, 1, 7, 7, 7, 7, 7, 7,	1152) 1152) 48) 1152) 1152) 192) 192) 192) 1152) 1152)	0 0 0 55344 56448 0 221184 768 0	block6c_bn[0][0] block6c_activation[0][0] block6c_se_squeeze[0][0] block6c_se_reshape[0][0] block6c_se_reduce[0][0] block6c_activation[0][0] block6c_se_expand[0][0] block6c_se_excite[0][0] block6c_project_conv[0][0] block6c_drop[0][0] block6c_drop[0][0] block6c_add[0][0]
block6c_activation (Activation) block6c_se_squeeze (GlobalAvera block6c_se_reshape (Reshape) block6c_se_reduce (Conv2D) block6c_se_expand (Conv2D) block6c_se_excite (Multiply) block6c_project_conv (Conv2D) block6c_project_bn (BatchNormal block6c_drop (Dropout) block6c_add (Add) block6d_expand_conv (Conv2D) block6d_expand_bn (BatchNormali	(None,	7, 115 1, 1, 7, 7, 7, 7, 7, 7, 7, 7,	7, (i2) 1, 1, 7, 7, 7, 7, 7, 7, 7, 7,	1152) 48) 1152) 1152) 1152) 192) 192) 192) 1152) 1152)	0 0 0 55344 56448 0 221184 768 0 0	block6c_bn[0][0] block6c_activation[0][0] block6c_se_squeeze[0][0] block6c_se_reshape[0][0] block6c_se_reduce[0][0] block6c_activation[0][0] block6c_se_expand[0][0] block6c_se_excite[0][0] block6c_project_conv[0][0] block6c_drop[0][0] block6c_drop[0][0] block6c_add[0][0] block6c_add[0][0]
block6c_activation (Activation) block6c_se_squeeze (GlobalAvera block6c_se_reshape (Reshape) block6c_se_reduce (Conv2D) block6c_se_expand (Conv2D) block6c_se_excite (Multiply) block6c_project_conv (Conv2D) block6c_project_bn (BatchNormal) block6c_drop (Dropout) block6c_add (Add) block6d_expand_conv (Conv2D) block6d_expand_bn (BatchNormali) block6d_expand_activation (Acti	(None,	7, 115 1, 1, 7, 7, 7, 7, 7, 7, 7, 7, 7,	7, 52) 1, 1, 7, 7, 7, 7, 7, 7,	1152) 1152) 48) 1152) 1152) 192) 192) 192) 1152) 1152) 1152)	0 0 0 55344 56448 0 221184 768 0 0 221184 4608	block6c_bn[0][0] block6c_activation[0][0] block6c_se_squeeze[0][0] block6c_se_reshape[0][0] block6c_se_reduce[0][0] block6c_activation[0][0] block6c_se_expand[0][0] block6c_se_excite[0][0] block6c_project_conv[0][0] block6c_drop[0][0] block6c_drop[0][0] block6c_add[0][0] block6c_add[0][0] block6d_expand_conv[0][0]
block6c_activation (Activation) block6c_se_squeeze (GlobalAvera block6c_se_reshape (Reshape) block6c_se_reduce (Conv2D) block6c_se_expand (Conv2D) block6c_se_excite (Multiply) block6c_project_conv (Conv2D) block6c_project_bn (BatchNormal block6c_drop (Dropout) block6c_add (Add) block6d_expand_conv (Conv2D) block6d_expand_bn (BatchNormali block6d_expand_activation (Acti block6d_dwconv (DepthwiseConv2D)	(None,	7, 115 1, 1, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,	7, 1, 1, 7, 7, 7, 7, 7, 7, 7,	1152) 48) 1152) 1152) 1152) 192) 192) 1152) 1152) 1152) 1152) 1152)	0 0 0 55344 56448 0 221184 768 0 0 221184 4608 0 28800	block6c_bn[0][0] block6c_activation[0][0] block6c_se_squeeze[0][0] block6c_se_reshape[0][0] block6c_se_reduce[0][0] block6c_activation[0][0] block6c_se_expand[0][0] block6c_se_excite[0][0] block6c_project_conv[0][0] block6c_drop[0][0] block6c_drop[0][0] block6c_add[0][0] block6c_add[0][0] block6d_expand_conv[0][0] block6d_expand_activation[0][0]
block6c_activation (Activation) block6c_se_squeeze (GlobalAvera block6c_se_reshape (Reshape) block6c_se_reduce (Conv2D) block6c_se_expand (Conv2D) block6c_se_excite (Multiply) block6c_project_conv (Conv2D) block6c_project_bn (BatchNormal block6c_drop (Dropout) block6c_add (Add) block6d_expand_conv (Conv2D) block6d_expand_bn (BatchNormali block6d_expand_activation (Acti block6d_dwconv (DepthwiseConv2D) block6d_bn (BatchNormalization)	(None,	7, 115 1, 1, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,	7, 1, 1, 7, 7, 7, 7, 7, 7, 7, 7, 7,	1152) 48) 1152) 1152) 1152) 192) 192) 1152) 1152) 1152) 1152) 1152)	θ θ θ 9 55344 56448 θ 221184 768 θ θ 221184 4608 θ 28800 4608	block6c_bn[0][0] block6c_activation[0][0] block6c_se_squeeze[0][0] block6c_se_reshape[0][0] block6c_se_reduce[0][0] block6c_se_expand[0][0] block6c_se_excite[0][0] block6c_project_conv[0][0] block6c_project_bn[0][0] block6c_drop[0][0] block6c_add[0][0] block6c_add[0][0] block6d_expand_conv[0][0] block6d_expand_activation[0][0] block6d_expand_activation[0][0]
block6c_activation (Activation) block6c_se_squeeze (GlobalAvera block6c_se_reshape (Reshape) block6c_se_reduce (Conv2D) block6c_se_expand (Conv2D) block6c_se_excite (Multiply) block6c_project_conv (Conv2D) block6c_project_bn (BatchNormal block6c_drop (Dropout) block6c_add (Add) block6d_expand_conv (Conv2D) block6d_expand_bn (BatchNormali block6d_expand_activation (Acti block6d_dwconv (DepthwiseConv2D) block6d_bn (BatchNormalization) block6d_activation (Activation)	(None,	7, 115 1, 1, 7, 7, 7, 7, 7, 7, 7, 115	7, (2) 1, 1, 7, 7, 7, 7, 7, 7, 7, 7,	1152) 48) 1152) 1152) 1152) 1152) 192) 192) 1152) 1152) 1152) 1152) 1152)	θ θ θ θ 55344 56448 θ θ 221184 4608 θ 28800 4608 θ	block6c_bn[0][0] block6c_activation[0][0] block6c_se_squeeze[0][0] block6c_se_reshape[0][0] block6c_se_reduce[0][0] block6c_activation[0][0] block6c_se_expand[0][0] block6c_se_excite[0][0] block6c_project_conv[0][0] block6c_drop[0][0] block6c_drop[0][0] block6c_add[0][0] block6d_expand_conv[0][0] block6d_expand_bn[0][0] block6d_expand_activation[0][0] block6d_dwconv[0][0] block6d_bn[0][0]
block6c_activation (Activation) block6c_se_squeeze (GlobalAvera block6c_se_reshape (Reshape) block6c_se_reduce (Conv2D) block6c_se_expand (Conv2D) block6c_se_excite (Multiply) block6c_project_conv (Conv2D) block6c_project_bn (BatchNormal block6c_drop (Dropout) block6c_add (Add) block6d_expand_conv (Conv2D) block6d_expand_bn (BatchNormali block6d_expand_activation (Acti block6d_dwconv (DepthwiseConv2D) block6d_bn (BatchNormalization) block6d_activation (Activation) block6d_se_squeeze (GlobalAvera	(None,	7, 115 1, 1, 7, 7, 7, 7, 7, 7, 7, 115	7, i2) 1, 1, 7, 7, 7, 7, 7, 7, 7, 7, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1152) 48) 1152) 1152) 1152) 192) 192) 1152) 1152) 1152) 1152) 1152) 1152)	0 0 0 55344 56448 0 221184 768 0 221184 4608 0 28800 4608 0 0	block6c_bn[0][0] block6c_activation[0][0] block6c_se_squeeze[0][0] block6c_se_reshape[0][0] block6c_se_reduce[0][0] block6c_activation[0][0] block6c_se_expand[0][0] block6c_se_excite[0][0] block6c_project_conv[0][0] block6c_drop[0][0] block6c_drop[0][0] block6c_add[0][0] block6d_expand_conv[0][0] block6d_expand_bn[0][0] block6d_expand_activation[0][0] block6d_dwconv[0][0] block6d_bn[0][0] block6d_activation[0][0]

block6d_se_expand (Conv2D)	(None,	1, 1,	1152)	56448	block6d_se_reduce[0][0]
block6d_se_excite (Multiply)	(None,	7, 7,	1152)	0	<pre>block6d_activation[0][0] block6d_se_expand[0][0]</pre>
block6d_project_conv (Conv2D)	(None,	7, 7,	192)	221184	block6d_se_excite[0][0]
block6d_project_bn (BatchNormal	(None,	7, 7,	192)	768	block6d_project_conv[0][0]
block6d_drop (Dropout)	(None,	7, 7,	192)	0	block6d_project_bn[0][0]
block6d_add (Add)	(None,	7, 7,	192)	0	block6d_drop[0][0] block6c_add[0][0]
block7a_expand_conv (Conv2D)	(None,	7, 7,	1152)	221184	block6d_add[0][0]
block7a_expand_bn (BatchNormali	(None,	7, 7,	1152)	4608	block7a_expand_conv[0][0]
block7a_expand_activation (Acti	(None,	7, 7,	1152)	0	block7a_expand_bn[0][0]
block7a_dwconv (DepthwiseConv2D	(None,	7, 7,	1152)	10368	block7a_expand_activation[0][0]
block7a_bn (BatchNormalization)	(None,	7, 7,	1152)	4608	block7a_dwconv[0][0]
block7a_activation (Activation)	(None,	7, 7,	1152)	0	block7a_bn[0][0]
block7a_se_squeeze (GlobalAvera	(None,	1152)		0	block7a_activation[0][0]
block7a_se_reshape (Reshape)	(None,	1, 1,	1152)	0	block7a_se_squeeze[0][0]
block7a_se_reduce (Conv2D)	(None,	1, 1,	48)	55344	block7a_se_reshape[0][0]
block7a_se_expand (Conv2D)	(None,	1, 1,	1152)	56448	block7a_se_reduce[0][0]
block7a_se_excite (Multiply)	(None,	7, 7,	1152)	0	<pre>block7a_activation[0][0] block7a_se_expand[0][0]</pre>
block7a_project_conv (Conv2D)	(None,	7, 7,	320)	368640	block7a_se_excite[0][0]
block7a_project_bn (BatchNormal	(None,	7, 7,	320)	1280	block7a_project_conv[0][0]
top_conv (Conv2D)	(None,	7, 7,	1280)	409600	block7a_project_bn[0][0]
top_bn (BatchNormalization)	(None,	7, 7,	1280)	5120	top_conv[0][0]
top_activation (Activation)	(None,	7, 7,	1280)	0	top_bn[0][0]
avg_pool (GlobalAveragePooling2	(None,	1280)		0	top_activation[0][0]
top_dropout (Dropout)	(None,	1280)		0	avg_pool[0][0]
predictions (Dense)	(None,	1000)		1281000	top_dropout[0][0]

Model: "functional_1"

Layer (type)	Output	Shape			Param #	Connected to
input_1 (InputLayer)	[(None	, 224,	224	, 3)	0	
rescaling (Rescaling)	(None,	224, 2	224,	3)	0	input_1[0][0]
normalization (Normalization)	(None,	224, 2	224,	3)	7	rescaling[0][0]
stem_conv_pad (ZeroPadding2D)	(None,	225, 2	225,	3)	0	normalization[0][0]
stem_conv (Conv2D)	(None,	112, 1	L12,	32)	864	stem_conv_pad[0][0]
stem_bn (BatchNormalization)	(None,	112, 1	L12,	32)	128	stem_conv[0][0]
stem_activation (Activation)	(None,	112, 1	L12,	32)	0	stem_bn[0][0]
block1a_dwconv (DepthwiseConv2D	(None,	112, 1	112,	32)	288	stem_activation[0][0]
block1a_bn (BatchNormalization)	(None,	112, 1	L12,	32)	128	block1a_dwconv[0][0]
block1a_activation (Activation)	(None,	112, 1	L12,	32)	0	block1a_bn[0][0]
block1a_se_squeeze (GlobalAvera	(None,	32)			0	block1a_activation[0][0]
block1a_se_reshape (Reshape)	(None,	1, 1,	32)		0	block1a_se_squeeze[0][0]
block1a_se_reduce (Conv2D)	(None,	1, 1,	8)		264	block1a_se_reshape[0][0]
block1a_se_expand (Conv2D)	(None,	1, 1,	32)		288	block1a_se_reduce[0][0]
block1a_se_excite (Multiply)	(None,	112, 1	L12,	32)	0	block1a_activation[0][0]

block1a_se_expand[0][0]

				Sidenia_Se_expana[0][0]
block1a_project_conv (Conv2D)	(None,	112, 112, 16)	512	block1a_se_excite[0][0]
block1a_project_bn (BatchNormal	(None,	112, 112, 16)	64	block1a_project_conv[0][0]
block2a_expand_conv (Conv2D)	(None,	112, 112, 96)	1536	block1a_project_bn[0][0]
block2a_expand_bn (BatchNormali	(None,	112, 112, 96)	384	block2a_expand_conv[0][0]
block2a_expand_activation (Acti	(None,	112, 112, 96)	0	block2a_expand_bn[0][0]
block2a_dwconv_pad (ZeroPadding	(None,	113, 113, 96)	0	block2a_expand_activation[0][0]
block2a_dwconv (DepthwiseConv2D	(None,	56, 56, 96)	864	block2a_dwconv_pad[0][0]
block2a_bn (BatchNormalization)	(None,	56, 56, 96)	384	block2a_dwconv[0][0]
block2a_activation (Activation)	(None,	56, 56, 96)	0	block2a_bn[0][0]
block2a_se_squeeze (GlobalAvera	(None,	96)	0	block2a_activation[0][0]
block2a_se_reshape (Reshape)	(None,	1, 1, 96)	0	block2a_se_squeeze[0][0]
block2a_se_reduce (Conv2D)	(None,	1, 1, 4)	388	block2a_se_reshape[0][0]
block2a_se_expand (Conv2D)	(None,	1, 1, 96)	480	block2a_se_reduce[0][0]
block2a_se_excite (Multiply)	(None,	56, 56, 96)	0	block2a_activation[0][0] block2a_se_expand[0][0]
block2a_project_conv (Conv2D)	(None,	56, 56, 24)	2304	block2a_se_excite[0][0]
block2a_project_bn (BatchNormal	(None,	56, 56, 24)	96	block2a_project_conv[0][0]
block2b_expand_conv (Conv2D)	(None,	56, 56, 144)	3456	block2a_project_bn[0][0]
block2b_expand_bn (BatchNormali	(None,	56, 56, 144)	576	block2b_expand_conv[0][0]
block2b_expand_activation (Acti	(None,	56, 56, 144)	0	block2b_expand_bn[0][0]
block2b_dwconv (DepthwiseConv2D	(None,	56, 56, 144)	1296	block2b_expand_activation[0][0]
block2b_bn (BatchNormalization)	(None,	56, 56, 144)	576	block2b_dwconv[0][0]
block2b_activation (Activation)	(None,	56, 56, 144)	0	block2b_bn[0][0]
block2b_se_squeeze (GlobalAvera	(None,	144)	0	block2b_activation[0][0]
block2b_se_reshape (Reshape)	(None,	1, 1, 144)	0	block2b_se_squeeze[0][0]
block2b_se_reduce (Conv2D)	(None,	1, 1, 6)	870	block2b_se_reshape[0][0]
block2b_se_expand (Conv2D)	(None,	1, 1, 144)	1008	block2b_se_reduce[0][0]
block2b_se_excite (Multiply)	(None,	56, 56, 144)	0	block2b_activation[0][0] block2b_se_expand[0][0]
block2b_project_conv (Conv2D)	(None,	56, 56, 24)	3456	block2b_se_excite[0][0]
block2b_project_bn (BatchNormal	(None,	56, 56, 24)	96	block2b_project_conv[0][0]
block2b_drop (Dropout)	(None,	56, 56, 24)	0	block2b_project_bn[0][0]
block2b_add (Add)	(None,	56, 56, 24)	0	block2b_drop[0][0]
				block2a_project_bn[0][0]
block3a_expand_conv (Conv2D)	(None,	56, 56, 144)	3456	block2b_add[0][0]
block3a_expand_conv (Conv2D) block3a_expand_bn (BatchNormali			3456 576	
	(None,	56, 56, 144)		block2b_add[0][0]
block3a_expand_bn (BatchNormali	(None,	56, 56, 144) 56, 56, 144)	576	block2b_add[0][0] block3a_expand_conv[0][0]
block3a_expand_bn (BatchNormali block3a_expand_activation (Acti	(None, (None,	56, 56, 144) 56, 56, 144) 59, 59, 144)	576	block2b_add[0][0] block3a_expand_conv[0][0] block3a_expand_bn[0][0]
block3a_expand_bn (BatchNormali block3a_expand_activation (Acti block3a_dwconv_pad (ZeroPadding	(None, (None, (None,	56, 56, 144) 56, 56, 144) 59, 59, 144) 28, 28, 144)	576 0 0	block2b_add[0][0] block3a_expand_conv[0][0] block3a_expand_bn[0][0] block3a_expand_activation[0][0]
block3a_expand_bn (BatchNormali block3a_expand_activation (Acti block3a_dwconv_pad (ZeroPadding block3a_dwconv (DepthwiseConv2D	(None, (None, (None, (None,	56, 56, 144) 56, 56, 144) 59, 59, 144) 28, 28, 144) 28, 28, 144)	576 0 0 3600	block2b_add[0][0] block3a_expand_conv[0][0] block3a_expand_bn[0][0] block3a_expand_activation[0][0] block3a_dwconv_pad[0][0]
block3a_expand_bn (BatchNormali block3a_expand_activation (Acti block3a_dwconv_pad (ZeroPadding block3a_dwconv (DepthwiseConv2D block3a_bn (BatchNormalization)	(None, (None, (None, (None, (None,	56, 56, 144) 56, 56, 144) 59, 59, 144) 28, 28, 144) 28, 28, 144) 28, 28, 144)	576 0 0 3600 576	block2b_add[0][0] block3a_expand_conv[0][0] block3a_expand_bn[0][0] block3a_expand_activation[0][0] block3a_dwconv_pad[0][0] block3a_dwconv[0][0]
block3a_expand_bn (BatchNormali block3a_expand_activation (Acti block3a_dwconv_pad (ZeroPadding block3a_dwconv (DepthwiseConv2D block3a_bn (BatchNormalization) block3a_activation (Activation)	(None, (None, (None, (None, (None, (None, (None,	56, 56, 144) 56, 56, 144) 59, 59, 144) 28, 28, 144) 28, 28, 144) 28, 28, 144)	576 0 0 3600 576	block2b_add[0][0] block3a_expand_conv[0][0] block3a_expand_bn[0][0] block3a_expand_activation[0][0] block3a_dwconv_pad[0][0] block3a_dwconv[0][0] block3a_bn[0][0]
block3a_expand_bn (BatchNormali block3a_expand_activation (Acti block3a_dwconv_pad (ZeroPadding block3a_dwconv (DepthwiseConv2D block3a_bn (BatchNormalization) block3a_activation (Activation) block3a_se_squeeze (GlobalAvera	(None, (None, (None, (None, (None, (None, (None, (None,	56, 56, 144) 56, 56, 144) 59, 59, 144) 28, 28, 144) 28, 28, 144) 28, 28, 144) 144)	576 0 0 3600 576 0	block2b_add[0][0] block3a_expand_conv[0][0] block3a_expand_bn[0][0] block3a_expand_activation[0][0] block3a_dwconv_pad[0][0] block3a_dwconv[0][0] block3a_bn[0][0] block3a_activation[0][0]
block3a_expand_bn (BatchNormali block3a_expand_activation (Acti block3a_dwconv_pad (ZeroPadding block3a_dwconv (DepthwiseConv2D block3a_bn (BatchNormalization) block3a_activation (Activation) block3a_se_squeeze (GlobalAvera block3a_se_reshape (Reshape)	(None,	56, 56, 144) 56, 56, 144) 59, 59, 144) 28, 28, 144) 28, 28, 144) 28, 28, 144) 144) 1, 1, 144)	576 0 0 3600 576 0 0	block2b_add[0][0] block3a_expand_conv[0][0] block3a_expand_bn[0][0] block3a_expand_activation[0][0] block3a_dwconv_pad[0][0] block3a_dwconv[0][0] block3a_bn[0][0] block3a_activation[0][0] block3a_activation[0][0]
block3a_expand_bn (BatchNormali block3a_expand_activation (Acti block3a_dwconv_pad (ZeroPadding block3a_dwconv (DepthwiseConv2D block3a_bn (BatchNormalization) block3a_activation (Activation) block3a_se_squeeze (GlobalAvera block3a_se_reshape (Reshape) block3a_se_reduce (Conv2D)	(None,	56, 56, 144) 56, 56, 144) 59, 59, 144) 28, 28, 144) 28, 28, 144) 144) 1, 1, 144) 1, 1, 6)	576 0 0 3600 576 0 0 870	block2b_add[0][0] block3a_expand_conv[0][0] block3a_expand_bn[0][0] block3a_expand_activation[0][0] block3a_dwconv_pad[0][0] block3a_dwconv[0][0] block3a_bn[0][0] block3a_activation[0][0] block3a_se_squeeze[0][0] block3a_se_reshape[0][0]

block3a_project_conv (Conv2D)	(None, 28, 28, 40)	5760	block3a_se_excite[0][0]
block3a_project_bn (BatchNormal	(None, 28, 28, 40)	160	block3a_project_conv[0][0]
block3b_expand_conv (Conv2D)	(None, 28, 28, 240)	9600	block3a_project_bn[0][0]
block3b_expand_bn (BatchNormali	(None, 28, 28, 240)	960	block3b_expand_conv[0][0]
block3b_expand_activation (Acti	(None, 28, 28, 240)	0	block3b_expand_bn[0][0]
block3b_dwconv (DepthwiseConv2D	(None, 28, 28, 240)	6000	block3b_expand_activation[0][0]
block3b_bn (BatchNormalization)	(None, 28, 28, 240)	960	block3b_dwconv[0][0]
block3b_activation (Activation)	(None, 28, 28, 240)	0	block3b_bn[0][0]
block3b_se_squeeze (GlobalAvera	(None, 240)	0	block3b_activation[0][0]
block3b_se_reshape (Reshape)	(None, 1, 1, 240)	0	block3b_se_squeeze[0][0]
block3b_se_reduce (Conv2D)	(None, 1, 1, 10)	2410	block3b_se_reshape[0][0]
block3b_se_expand (Conv2D)	(None, 1, 1, 240)	2640	block3b_se_reduce[0][0]
block3b_se_excite (Multiply)	(None, 28, 28, 240)	0	block3b_activation[0][0] block3b_se_expand[0][0]
block3b_project_conv (Conv2D)	(None, 28, 28, 40)	9600	block3b_se_excite[0][0]
block3b_project_bn (BatchNormal	(None, 28, 28, 40)	160	block3b_project_conv[0][0]
block3b_drop (Dropout)	(None, 28, 28, 40)	0	block3b_project_bn[0][0]
block3b_add (Add)	(None, 28, 28, 40)	0	block3b_drop[0][0] block3a_project_bn[0][0]
block4a_expand_conv (Conv2D)	(None, 28, 28, 240)	9600	block3b_add[0][0]
block4a_expand_bn (BatchNormali	(None, 28, 28, 240)	960	block4a_expand_conv[0][0]
block4a_expand_activation (Acti	(None, 28, 28, 240)	0	block4a_expand_bn[0][0]
block4a_dwconv_pad (ZeroPadding	(None, 29, 29, 240)	0	block4a_expand_activation[0][0]
block4a_dwconv (DepthwiseConv2D	(None, 14, 14, 240)	2160	block4a_dwconv_pad[0][0]
block4a_bn (BatchNormalization)	(None, 14, 14, 240)	960	block4a_dwconv[0][0]
block4a_activation (Activation)	(None, 14, 14, 240)	0	block4a_bn[0][0]
block4a_se_squeeze (GlobalAvera	(None, 240)	0	block4a_activation[0][0]
block4a_se_reshape (Reshape)	(None, 1, 1, 240)	0	block4a_se_squeeze[0][0]
block4a_se_reduce (Conv2D)	(None, 1, 1, 10)	2410	block4a_se_reshape[0][0]
block4a_se_expand (Conv2D)	(None, 1, 1, 240)	2640	block4a_se_reduce[0][0]
block4a_se_excite (Multiply)	(None, 14, 14, 240)	0	<pre>block4a_activation[0][0] block4a_se_expand[0][0]</pre>
block4a_project_conv (Conv2D)	(None, 14, 14, 80)	19200	block4a_se_excite[0][0]
block4a_project_bn (BatchNormal	(None, 14, 14, 80)	320	block4a_project_conv[0][0]
block4b_expand_conv (Conv2D)	(None, 14, 14, 480)	38400	block4a_project_bn[0][0]
block4b_expand_bn (BatchNormali	(None, 14, 14, 480)	1920	block4b_expand_conv[0][0]
block4b_expand_activation (Acti	(None, 14, 14, 480)	0	block4b_expand_bn[0][0]
block4b_dwconv (DepthwiseConv2D	(None, 14, 14, 480)	4320	block4b_expand_activation[0][0]
block4b_bn (BatchNormalization)	(None, 14, 14, 480)	1920	block4b_dwconv[0][0]
block4b_activation (Activation)	(None, 14, 14, 480)	0	block4b_bn[0][0]
block4b_se_squeeze (GlobalAvera	(None, 480)	0	block4b_activation[0][0]
block4b_se_reshape (Reshape)	(None, 1, 1, 480)	0	block4b_se_squeeze[0][0]
block4b_se_reduce (Conv2D)	(None, 1, 1, 20)	9620	block4b_se_reshape[0][0]
block4b_se_expand (Conv2D)	(None, 1, 1, 480)	10080	block4b_se_reduce[0][0]
block4b_se_excite (Multiply)	(None, 14, 14, 480)	0	<pre>block4b_activation[0][0] block4b_se_expand[0][0]</pre>
block4b_project_conv (Conv2D)	(None, 14, 14, 80)	38400	block4b_se_excite[0][0]

block4b_project_bn (BatchNormal	(None,	14, 14, 80)	320	block4b_project_conv[0][0]
block4b_drop (Dropout)	(None,	14, 14, 80)	0	block4b_project_bn[0][0]
block4b_add (Add)	(None,	14, 14, 80)	0	block4b_drop[0][0] block4a_project_bn[0][0]
block4c_expand_conv (Conv2D)	(None,	14, 14, 480)	38400	block4b_add[0][0]
block4c_expand_bn (BatchNormali	(None,	14, 14, 480)	1920	block4c_expand_conv[0][0]
block4c_expand_activation (Acti	(None,	14, 14, 480)	0	block4c_expand_bn[0][0]
block4c_dwconv (DepthwiseConv2D	(None,	14, 14, 480)	4320	block4c_expand_activation[0][0]
block4c_bn (BatchNormalization)	(None,	14, 14, 480)	1920	block4c_dwconv[0][0]
block4c_activation (Activation)	(None,	14, 14, 480)	0	block4c_bn[0][0]
block4c_se_squeeze (GlobalAvera	(None,	480)	0	block4c_activation[0][0]
block4c_se_reshape (Reshape)	(None,	1, 1, 480)	0	block4c_se_squeeze[0][0]
block4c_se_reduce (Conv2D)	(None,	1, 1, 20)	9620	block4c_se_reshape[0][0]
block4c_se_expand (Conv2D)	(None,	1, 1, 480)	10080	block4c_se_reduce[0][0]
block4c_se_excite (Multiply)	(None,	14, 14, 480)	0	block4c_activation[0][0] block4c_se_expand[0][0]
block4c_project_conv (Conv2D)	(None,	14, 14, 80)	38400	block4c_se_excite[0][0]
block4c_project_bn (BatchNormal	(None,	14, 14, 80)	320	block4c_project_conv[0][0]
block4c_drop (Dropout)	(None,	14, 14, 80)	0	block4c_project_bn[0][0]
block4c_add (Add)	(None,	14, 14, 80)	0	block4c_drop[0][0] block4b_add[0][0]
block5a_expand_conv (Conv2D)	(None,	14, 14, 480)	38400	block4c_add[0][0]
block5a_expand_bn (BatchNormali	(None,	14, 14, 480)	1920	block5a_expand_conv[0][0]
block5a_expand_activation (Acti	(None,	14, 14, 480)	0	block5a_expand_bn[0][0]
block5a_dwconv (DepthwiseConv2D	(None,	14, 14, 480)	12000	block5a_expand_activation[0][0]
block5a_bn (BatchNormalization)	(None,	14, 14, 480)	1920	block5a_dwconv[0][0]
block5a_activation (Activation)	(None,	14, 14, 480)	0	block5a_bn[0][0]
block5a_se_squeeze (GlobalAvera	(None,	480)	0	block5a_activation[0][0]
block5a_se_reshape (Reshape)	(None,	1, 1, 480)	0	block5a_se_squeeze[0][0]
block5a_se_reduce (Conv2D)	(None,	1, 1, 20)	9620	block5a_se_reshape[0][0]
block5a_se_expand (Conv2D)	(None,	1, 1, 480)	10080	block5a_se_reduce[0][0]
block5a_se_excite (Multiply)	(None,	14, 14, 480)	0	block5a_activation[0][0] block5a_se_expand[0][0]
block5a_project_conv (Conv2D)	(None,	14, 14, 112)	53760	block5a_se_excite[0][0]
block5a_project_bn (BatchNormal	(None,	14, 14, 112)	448	block5a_project_conv[0][0]
block5b_expand_conv (Conv2D)	(None,	14, 14, 672)	75264	block5a_project_bn[0][0]
block5b_expand_bn (BatchNormali	(None,	14, 14, 672)	2688	block5b_expand_conv[0][0]
block5b_expand_activation (Acti	(None,	14, 14, 672)	0	block5b_expand_bn[0][0]
block5b_dwconv (DepthwiseConv2D	(None,	14, 14, 672)	16800	block5b_expand_activation[0][0]
block5b_bn (BatchNormalization)	(None,	14, 14, 672)	2688	block5b_dwconv[0][0]
block5b_activation (Activation)	(None,	14, 14, 672)	0	block5b_bn[0][0]
block5b_se_squeeze (GlobalAvera	(None,	672)	0	block5b_activation[0][0]
block5b_se_reshape (Reshape)	(None,	1, 1, 672)	0	block5b_se_squeeze[0][0]
block5b_se_reduce (Conv2D)	(None,	1, 1, 28)	18844	block5b_se_reshape[0][0]
block5b_se_expand (Conv2D)	(None,	1, 1, 672)	19488	block5b_se_reduce[0][0]
block5b_se_excite (Multiply)	(None,	14, 14, 672)	0	block5b_activation[0][0] block5b_se_expand[0][0]
block5b_project_conv (Conv2D)	(None,	14, 14, 112)	75264	block5b_se_excite[0][0]

block5b_project_bn (BatchNormal	(None, 14,	14, 112)	448	block5b_project_conv[0][0]
block5b_drop (Dropout)	(None, 14,	14, 112)	0	block5b_project_bn[0][0]
block5b_add (Add)	(None, 14,	14, 112)	0	block5b_drop[0][0] block5a_project_bn[0][0]
block5c_expand_conv (Conv2D)	(None, 14,	14, 672)	75264	block5b_add[0][0]
block5c_expand_bn (BatchNormali	(None, 14,	14, 672)	2688	block5c_expand_conv[0][0]
block5c_expand_activation (Acti	(None, 14,	14, 672)	0	block5c_expand_bn[0][0]
block5c_dwconv (DepthwiseConv2D	(None, 14,	14, 672)	16800	block5c_expand_activation[0][0]
block5c_bn (BatchNormalization)	(None, 14,	14, 672)	2688	block5c_dwconv[0][0]
block5c_activation (Activation)	(None, 14,	14, 672)	0	block5c_bn[0][0]
block5c_se_squeeze (GlobalAvera	(None, 672))	0	block5c_activation[0][0]
block5c_se_reshape (Reshape)	(None, 1, 1	1, 672)	0	block5c_se_squeeze[0][0]
block5c_se_reduce (Conv2D)	(None, 1, 1	1, 28)	18844	block5c_se_reshape[0][0]
block5c_se_expand (Conv2D)	(None, 1, 1	1, 672)	19488	block5c_se_reduce[0][0]
block5c_se_excite (Multiply)	(None, 14,	14, 672)	0	block5c_activation[0][0] block5c_se_expand[0][0]
block5c_project_conv (Conv2D)	(None, 14,	14, 112)	75264	block5c_se_excite[0][0]
block5c_project_bn (BatchNormal	(None, 14,	14, 112)	448	block5c_project_conv[0][0]
block5c_drop (Dropout)	(None, 14,	14, 112)	0	block5c_project_bn[0][0]
block5c_add (Add)	(None, 14,	14, 112)	0	block5c_drop[0][0] block5b_add[0][0]
block6a_expand_conv (Conv2D)	(None, 14,	14, 672)	75264	block5c_add[0][0]
block6a_expand_bn (BatchNormali	(None, 14,	14, 672)	2688	block6a_expand_conv[0][0]
block6a_expand_activation (Acti	(None, 14,	14, 672)	0	block6a_expand_bn[0][0]
block6a_dwconv_pad (ZeroPadding	(None, 17,	17, 672)	0	block6a_expand_activation[0][0]
block6a_dwconv (DepthwiseConv2D	(None, 7, 7	7, 672)	16800	block6a_dwconv_pad[0][0]
block6a_bn (BatchNormalization)	(None, 7, 7	7, 672)	2688	block6a_dwconv[0][0]
block6a_activation (Activation)	(None, 7, 7	7, 672)	0	block6a_bn[0][0]
block6a_se_squeeze (GlobalAvera	(None, 672))	0	block6a_activation[0][0]
block6a_se_reshape (Reshape)	(None, 1, 1	1, 672)	0	block6a_se_squeeze[0][0]
block6a_se_reduce (Conv2D)	(None, 1, 1	1, 28)	18844	block6a_se_reshape[0][0]
block6a_se_expand (Conv2D)	(None, 1, 1	1, 672)	19488	block6a_se_reduce[0][0]
block6a_se_excite (Multiply)	(None, 7, 7	7, 672)	0	block6a_activation[0][0] block6a_se_expand[0][0]
block6a_project_conv (Conv2D)	(None, 7, 7	7, 192)	129024	block6a_se_excite[0][0]
block6a_project_bn (BatchNormal	(None, 7, 7	7, 192)	768	block6a_project_conv[0][0]
block6b_expand_conv (Conv2D)	(None, 7, 7	7, 1152)	221184	block6a_project_bn[0][0]
block6b_expand_bn (BatchNormali	(None, 7, 7	7, 1152)	4608	block6b_expand_conv[0][0]
block6b_expand_activation (Acti	(None, 7, 7	7, 1152)	0	block6b_expand_bn[0][0]
block6b_dwconv (DepthwiseConv2D	(None, 7, 7	7, 1152)	28800	block6b_expand_activation[0][0]
block6b_bn (BatchNormalization)			4608	block6b_dwconv[0][0]
block6b_activation (Activation)	(None, 7, 7	7, 1152)	0	block6b_bn[0][0]
block6b_se_squeeze (GlobalAvera	(None, 1152	2)	0	block6b_activation[0][0]
block6b_se_reshape (Reshape)	(None, 1, 1	1, 1152)	0	block6b_se_squeeze[0][0]
block6b_se_reduce (Conv2D)	(None, 1, 1	1, 48)	55344	block6b_se_reshape[0][0]
block6b_se_expand (Conv2D)	(None, 1, 1	1, 1152)	56448	block6b_se_reduce[0][0]
block6b_se_excite (Multiply)	(None, 7, 7	7, 1152)	0	block6b_activation[0][0] block6b_se_expand[0][0]

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block6b_project_conv (Conv2D)	(None,				221184	block6b_se_excite[0][0]
block6b_project_bn (BatchNormal					768	block6b_project_conv[0][0]
block6b_drop (Dropout)	(None,				0	block6b_project_bn[0][0]
block6b_add (Add)	(None,	7,	7,	192)	0	<pre>block6b_drop[0][0] block6a_project_bn[0][0]</pre>
block6c_expand_conv (Conv2D)	(None,	7,	7,	1152)	221184	block6b_add[0][0]
block6c_expand_bn (BatchNormali	(None,	7,	7,	1152)	4608	block6c_expand_conv[0][0]
block6c_expand_activation (Acti	(None,	7,	7,	1152)	0	block6c_expand_bn[0][0]
block6c_dwconv (DepthwiseConv2D	(None,	7,	7,	1152)	28800	block6c_expand_activation[0][0]
block6c_bn (BatchNormalization)	(None,	7,	7,	1152)	4608	block6c_dwconv[0][0]
block6c_activation (Activation)	(None,	7,	7,	1152)	0	block6c_bn[0][0]
block6c_se_squeeze (GlobalAvera	(None,	115	52)		0	block6c_activation[0][0]
block6c_se_reshape (Reshape)	(None,	1,	1,	1152)	0	block6c_se_squeeze[0][0]
block6c_se_reduce (Conv2D)	(None,	1,	1,	48)	55344	block6c_se_reshape[0][0]
block6c_se_expand (Conv2D)	(None,	1,	1,	1152)	56448	block6c_se_reduce[0][0]
block6c_se_excite (Multiply)	(None,	7,	7,	1152)	0	block6c_activation[0][0] block6c_se_expand[0][0]
block6c_project_conv (Conv2D)	(None,	7,	7,	192)	221184	block6c_se_excite[0][0]
block6c_project_bn (BatchNormal	(None,	7,	7,	192)	768	block6c_project_conv[0][0]
block6c_drop (Dropout)	(None,	7,	7,	192)	0	block6c_project_bn[0][0]
block6c_add (Add)	(None,	7,	7,	192)	0	block6c_drop[0][0] block6b_add[0][0]
block6d_expand_conv (Conv2D)	(None,	7,	7,	1152)	221184	block6c_add[0][0]
block6d_expand_bn (BatchNormali	(None,	7,	7,	1152)	4608	block6d_expand_conv[0][0]
block6d_expand_activation (Acti	(None,	7,	7,	1152)	0	block6d_expand_bn[0][0]
block6d_dwconv (DepthwiseConv2D	(None,	7,	7,	1152)	28800	block6d_expand_activation[0][0]
block6d_bn (BatchNormalization)	(None,	7,	7,	1152)	4608	block6d_dwconv[0][0]
block6d_activation (Activation)	(None,	7,	7,	1152)	0	block6d_bn[0][0]
block6d_se_squeeze (GlobalAvera	(None,	115	52)		0	block6d_activation[0][0]
block6d_se_reshape (Reshape)	(None,	1,	1,	1152)	0	block6d_se_squeeze[0][0]
block6d_se_reduce (Conv2D)	(None,	1,	1,	48)	55344	block6d_se_reshape[0][0]
block6d_se_expand (Conv2D)	(None,	1,	1,	1152)	56448	block6d_se_reduce[0][0]
block6d_se_excite (Multiply)	(None,	7,	7,	1152)	0	block6d_activation[0][0]
						block6d_se_expand[0][0]
block6d_project_conv (Conv2D)	(None,				221184	block6d_se_excite[0][0]
block6d_project_bn (BatchNormal					768	block6d_project_conv[0][0]
block6d_drop (Dropout)	(None,	7,	7,	192)	0	block6d_project_bn[0][0]
block6d_add (Add)	(None,	7,	7,	192)	0	block6d_drop[0][0] block6c_add[0][0]
block7a_expand_conv (Conv2D)	(None,	7,	7,	1152)	221184	block6d_add[0][0]
block7a_expand_bn (BatchNormali	(None,	7,	7,	1152)	4608	block7a_expand_conv[0][0]
block7a_expand_activation (Acti	(None,	7,	7,	1152)	0	block7a_expand_bn[0][0]
block7a_dwconv (DepthwiseConv2D	(None,	7,	7,	1152)	10368	block7a_expand_activation[0][0]
block7a_bn (BatchNormalization)	(None,	7,	7,	1152)	4608	block7a_dwconv[0][0]
block7a_activation (Activation)	(None,	7,	7,	1152)	0	block7a_bn[0][0]
block7a_se_squeeze (GlobalAvera	(None,	115	52)		0	block7a_activation[0][0]
block7a_se_reshape (Reshape)	(None,	1,	1,	1152)	0	block7a_se_squeeze[0][0]
block7a_se_reduce (Conv2D)	(None,	1,	1,	48)	55344	block7a_se_reshape[0][0]

block7a_se_expand (Conv2D)	(None, 1, 1, 1	1152) 56448	<pre>block7a_se_reduce[0][0]</pre>
block7a_se_excite (Multiply)	(None, 7, 7, 1	1152) 0	<pre>block7a_activation[0][0] block7a_se_expand[0][0]</pre>
block7a_project_conv (Conv2D)	(None, 7, 7, 3	320) 368640	block7a_se_excite[0][0]
block7a_project_bn (BatchNormal	(None, 7, 7, 3	320) 1280	block7a_project_conv[0][0]
top_conv (Conv2D)	(None, 7, 7, 2	1280) 409600	block7a_project_bn[0][0]
top_bn (BatchNormalization)	(None, 7, 7, 2	1280) 5120	top_conv[0][0]
top_activation (Activation)	(None, 7, 7, 2	1280) 0	top_bn[0][0]
avg_pool (GlobalAveragePooling2	(None, 1280)	0	top_activation[0][0]
flatten (Flatten)	(None, 1280)	0	avg_pool[0][0]
output_layer (Dense)	(None, 2)	2562	flatten[0][0]

Total params: 4,052,133 Trainable params: 4,010,110 Non-trainable params: 42,023

Out[12]: True

```
In [13]: custom_resnet_model.compile(loss='categorical_crossentropy',optimizer='adam',metrics=['accuracy'])
```

```
In [14]: t=time.time()
    hist = custom_resnet_model.fit(X_train, y_train, batch_size=32, epochs=num_epoch, verbose=1, validation_data=(X_test, y_test))
    print('Training time: %s' % (t - time.time()))
    (loss, accuracy) = custom_resnet_model.evaluate(X_test, y_test, batch_size=10, verbose=1)
    print("[INFO] loss={:.4f}, accuracy: {:.4f}%".format(loss,accuracy * 100))
```

```
Epoch 1/100
Epoch 2/100
147/147 [===
                     :=======] - 8s 56ms/step - loss: 0.1834 - accuracy: 0.9313 - val loss: 0.1341 - val accuracy: 0.9497
Epoch 3/100
147/147 [====
               ==========] - 8s 57ms/step - loss: 0.1541 - accuracy: 0.9443 - val_loss: 0.1338 - val_accuracy: 0.9514
Epoch 4/100
147/147 [===
             ============= ] - 8s 57ms/step - loss: 0.1407 - accuracy: 0.9498 - val loss: 0.1146 - val accuracy: 0.9548
Epoch 5/100
147/147 [===
               =========== ] - 8s 57ms/step - loss: 0.1303 - accuracy: 0.9522 - val loss: 0.1142 - val accuracy: 0.9590
Epoch 6/100
147/147 [===
                Epoch 7/100
147/147 [====
               ==========] - 8s 57ms/step - loss: 0.1209 - accuracy: 0.9573 - val_loss: 0.1075 - val_accuracy: 0.9608
Fnoch 8/100
147/147 [=====
              Enoch 9/100
147/147 [====
                  :========] - 8s 57ms/step - loss: 0.1102 - accuracy: 0.9571 - val_loss: 0.1019 - val_accuracy: 0.9616
Epoch 10/100
            147/147 [======
Epoch 11/100
147/147 [====
               ==========] - 8s 57ms/step - loss: 0.1082 - accuracy: 0.9596 - val_loss: 0.1034 - val_accuracy: 0.9625
Epoch 12/100
147/147 [====
                ================ ] - 8s 57ms/step - loss: 0.1036 - accuracy: 0.9643 - val_loss: 0.0983 - val_accuracy: 0.9642
Epoch 13/100
147/147 [====
                ==========] - 8s 57ms/step - loss: 0.1028 - accuracy: 0.9607 - val_loss: 0.1088 - val_accuracy: 0.9573
Epoch 14/100
147/147 [====
                    :=======] - 8s 57ms/step - loss: 0.1038 - accuracy: 0.9637 - val loss: 0.1113 - val accuracy: 0.9582
Epoch 15/100
147/147 [====
               ==========] - 8s 57ms/step - loss: 0.0960 - accuracy: 0.9667 - val_loss: 0.0955 - val_accuracy: 0.9650
Epoch 16/100
147/147 [====
            =============] - 8s 57ms/step - loss: 0.0958 - accuracy: 0.9654 - val_loss: 0.0941 - val_accuracy: 0.96670.0
966 - accura
Epoch 17/100
147/147 [==========] - 8s 57ms/step - loss: 0.0946 - accuracy: 0.9654 - val loss: 0.0990 - val accuracy: 0.9616
Epoch 18/100
147/147 [====
                ==========] - 8s 56ms/step - loss: 0.0953 - accuracy: 0.9661 - val_loss: 0.0937 - val_accuracy: 0.9659
Epoch 19/100
147/147 [===========] - 8s 57ms/step - loss: 0.0896 - accuracy: 0.9686 - val_loss: 0.0941 - val_accuracy: 0.9684
Fnoch 20/100
147/147 [=====
               ===========] - 8s 57ms/step - loss: 0.0922 - accuracy: 0.9637 - val_loss: 0.0929 - val_accuracy: 0.9667
Epoch 21/100
147/147 [===========] - 8s 57ms/step - loss: 0.0914 - accuracy: 0.9641 - val_loss: 0.0918 - val_accuracy: 0.9684
Epoch 22/100
147/147 [====
               Epoch 23/100
147/147 [====
                Epoch 24/100
147/147 [====
                          =====] - 8s 57ms/step - loss: 0.0893 - accuracy: 0.9673 - val_loss: 0.0908 - val_accuracy: 0.9659
Epoch 25/100
147/147 [====
                     :=======] - 8s 57ms/step - loss: 0.0885 - accuracy: 0.9684 - val_loss: 0.0911 - val_accuracy: 0.9676
Epoch 26/100
147/147 [====
                        :=====| - 8s 57ms/step - loss: 0.0859 - accuracy: 0.9675 - val loss: 0.0901 - val accuracy: 0.9659
Epoch 27/100
147/147 [====
                     ========] - 8s 57ms/step - loss: 0.0849 - accuracy: 0.9695 - val_loss: 0.0925 - val_accuracy: 0.9676
Epoch 28/100
147/147 [====
                ==========] - 8s 57ms/step - loss: 0.0816 - accuracy: 0.9695 - val_loss: 0.0898 - val_accuracy: 0.9701
Epoch 29/100
147/147 [====
                   =========] - 8s 57ms/step - loss: 0.0813 - accuracy: 0.9688 - val_loss: 0.0890 - val_accuracy: 0.9650
Epoch 30/100
147/147 [=====
          Epoch 31/100
147/147 [====
                Epoch 32/100
147/147 [===========] - 8s 57ms/step - loss: 0.0806 - accuracy: 0.9729 - val loss: 0.0886 - val accuracy: 0.9667
Epoch 33/100
147/147 [=========== ] - 8s 57ms/step - loss: 0.0810 - accuracy: 0.9699 - val loss: 0.0874 - val accuracy: 0.9676
Fnoch 34/100
147/147 [=====
               =============== ] - 8s 57ms/step - loss: 0.0794 - accuracy: 0.9686 - val_loss: 0.0884 - val_accuracy: 0.9667
Epoch 35/100
147/147 [==========] - 8s 57ms/step - loss: 0.0787 - accuracy: 0.9701 - val_loss: 0.0955 - val_accuracy: 0.9667
Epoch 36/100
147/147 [====
                         =====] - 8s 57ms/step - loss: 0.0741 - accuracy: 0.9729 - val_loss: 0.0895 - val_accuracy: 0.9684
Epoch 37/100
147/147 [=====
                  =========] - 8s 57ms/step - loss: 0.0763 - accuracy: 0.9688 - val_loss: 0.0881 - val_accuracy: 0.9693
Epoch 38/100
147/147 [===
                         ====] - 8s 57ms/step - loss: 0.0788 - accuracy: 0.9720 - val_loss: 0.0945 - val_accuracy: 0.9676
Epoch 39/100
147/147 [=====
                ==========] - 8s 57ms/step - loss: 0.0775 - accuracy: 0.9725 - val_loss: 0.0891 - val_accuracy: 0.9693
Epoch 40/100
.
147/147 [====
               ==========] - 8s 57ms/step - loss: 0.0775 - accuracy: 0.9708 - val_loss: 0.0882 - val_accuracy: 0.9684
Epoch 41/100
147/147 [====
                ==========] - 8s 57ms/step - loss: 0.0786 - accuracy: 0.9710 - val_loss: 0.0867 - val_accuracy: 0.9667
Epoch 42/100
147/147 [==========] - 8s 56ms/step - loss: 0.0738 - accuracy: 0.9752 - val loss: 0.0855 - val accuracy: 0.9676
Epoch 43/100
147/147 [====
               Epoch 44/100
Epoch 45/100
```

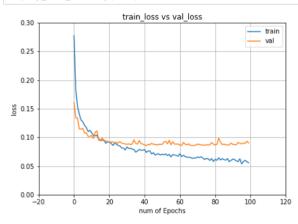
```
Enoch 46/100
                     :========] - 8s 57ms/step - loss: 0.0732 - accuracy: 0.9725 - val loss: 0.0878 - val accuracy: 0.9676
147/147 [====
Epoch 47/100
147/147 [=====
               Epoch 48/100
147/147 [===
                      :=======] - 8s 56ms/step - loss: 0.0708 - accuracy: 0.9746 - val_loss: 0.0866 - val_accuracy: 0.9676
Epoch 49/100
147/147 [====
                 ==========] - 8s 57ms/step - loss: 0.0711 - accuracy: 0.9746 - val_loss: 0.0878 - val_accuracy: 0.9684
Epoch 50/100
147/147 [===
                           ====] - 8s 57ms/step - loss: 0.0692 - accuracy: 0.9754 - val_loss: 0.0878 - val_accuracy: 0.9667
Epoch 51/100
147/147 [====
                ==========] - 8s 57ms/step - loss: 0.0705 - accuracy: 0.9765 - val_loss: 0.0877 - val_accuracy: 0.9684
Epoch 52/100
147/147 [====
                   =========] - 8s 57ms/step - loss: 0.0695 - accuracy: 0.9729 - val_loss: 0.0917 - val_accuracy: 0.9684
Epoch 53/100
147/147 [=====
               =============== - - 8s 57ms/step - loss: 0.0711 - accuracy: 0.9740 - val loss: 0.0931 - val accuracy: 0.9676
Epoch 54/100
147/147 [====
                =========== ] - 8s 57ms/step - loss: 0.0681 - accuracy: 0.9735 - val loss: 0.0887 - val accuracy: 0.9693
Epoch 55/100
147/147 [=====
             Epoch 56/100
Epoch 57/100
147/147 [====
                =========] - 8s 57ms/step - loss: 0.0700 - accuracy: 0.9740 - val_loss: 0.0922 - val_accuracy: 0.9676
Epoch 58/100
147/147 [============ - 8s 56ms/step - loss: 0.0691 - accuracy: 0.9735 - val loss: 0.0884 - val accuracy: 0.9676
Epoch 59/100
147/147 [====
                   ========] - 8s 57ms/step - loss: 0.0685 - accuracy: 0.9737 - val_loss: 0.0883 - val_accuracy: 0.9693
Epoch 60/100
147/147 [======
                ==========] - 8s 57ms/step - loss: 0.0670 - accuracy: 0.9761 - val_loss: 0.0884 - val_accuracy: 0.9693
Epoch 61/100
147/147 [=====
                   :========] - 8s 57ms/step - loss: 0.0713 - accuracy: 0.9750 - val_loss: 0.0867 - val_accuracy: 0.9693
Epoch 62/100
147/147 [====
                         :======] - 8s 57ms/step - loss: 0.0664 - accuracy: 0.9750 - val loss: 0.0859 - val accuracy: 0.9693
Epoch 63/100
147/147 [=====
                     :========] - 8s 57ms/step - loss: 0.0686 - accuracy: 0.9744 - val_loss: 0.0912 - val_accuracy: 0.9693
Epoch 64/100
Epoch 65/100
147/147 [====
                 ==========] - 8s 56ms/step - loss: 0.0654 - accuracy: 0.9767 - val_loss: 0.0869 - val_accuracy: 0.9693
Epoch 66/100
147/147 [============] - 8s 57ms/step - loss: 0.0653 - accuracy: 0.9757 - val loss: 0.0887 - val accuracy: 0.9676
Epoch 67/100
147/147 [====
                 ==========] - 8s 57ms/step - loss: 0.0650 - accuracy: 0.9761 - val_loss: 0.0861 - val_accuracy: 0.9693
Epoch 68/100
147/147 [====
                ==========] - 8s 56ms/step - loss: 0.0632 - accuracy: 0.9754 - val_loss: 0.0858 - val_accuracy: 0.9693
Enoch 69/100
147/147 [===========] - 8s 57ms/step - loss: 0.0640 - accuracy: 0.9763 - val loss: 0.0855 - val accuracy: 0.9693
Fnoch 70/100
           147/147 [=====
Epoch 71/100
147/147 [=====
               ===========] - 8s 57ms/step - loss: 0.0659 - accuracy: 0.9757 - val loss: 0.0881 - val accuracy: 0.9701
Epoch 72/100
147/147 [====
                  ========] - 8s 57ms/step - loss: 0.0646 - accuracy: 0.9765 - val_loss: 0.0877 - val_accuracy: 0.9676
Epoch 73/100
147/147 [====
                      :=======] - 8s 56ms/step - loss: 0.0662 - accuracy: 0.9759 - val_loss: 0.0867 - val_accuracy: 0.9676
Epoch 74/100
147/147 [====
                       =======] - 8s 57ms/step - loss: 0.0638 - accuracy: 0.9767 - val_loss: 0.0866 - val_accuracy: 0.9684
Epoch 75/100
147/147 [====
                ==========] - 8s 57ms/step - loss: 0.0615 - accuracy: 0.9776 - val_loss: 0.0862 - val_accuracy: 0.9701
Epoch 76/100
147/147 [====
                 Epoch 77/100
147/147 [====
                   =========] - 8s 56ms/step - loss: 0.0627 - accuracy: 0.9757 - val_loss: 0.0865 - val_accuracy: 0.9710
Epoch 78/100
147/147 [==========] - 8s 57ms/step - loss: 0.0596 - accuracy: 0.9784 - val loss: 0.0871 - val accuracy: 0.9693
Epoch 79/100
147/147 [====
                 Epoch 80/100
147/147 [===========] - 8s 57ms/step - loss: 0.0580 - accuracy: 0.9784 - val loss: 0.0882 - val accuracy: 0.9684
Enoch 81/100
147/147 [====
                ===========] - 8s 57ms/step - loss: 0.0616 - accuracy: 0.9778 - val loss: 0.0867 - val accuracy: 0.9693
Epoch 82/100
147/147 [============ - 8s 57ms/step - loss: 0.0600 - accuracy: 0.9791 - val loss: 0.0879 - val accuracy: 0.9701
Epoch 83/100
147/147 [============ - 8s 57ms/step - loss: 0.0642 - accuracy: 0.9746 - val loss: 0.0984 - val accuracy: 0.9693
Epoch 84/100
147/147 [====
                  =========] - 8s 57ms/step - loss: 0.0605 - accuracy: 0.9772 - val_loss: 0.0921 - val_accuracy: 0.9676
Epoch 85/100
Epoch 86/100
147/147 [====
                      =======] - 8s 57ms/step - loss: 0.0612 - accuracy: 0.9759 - val_loss: 0.0881 - val_accuracy: 0.9701
Epoch 87/100
147/147 [==========] - 8s 57ms/step - loss: 0.0602 - accuracy: 0.9784 - val loss: 0.0871 - val accuracy: 0.9684
Epoch 88/100
147/147 [====
                    ========] - 8s 57ms/step - loss: 0.0629 - accuracy: 0.9754 - val_loss: 0.0866 - val_accuracy: 0.9693
Epoch 89/100
Epoch 90/100
147/147 [=====
                ==========] - 8s 57ms/step - loss: 0.0597 - accuracy: 0.9782 - val_loss: 0.0901 - val_accuracy: 0.9710
Epoch 91/100
```

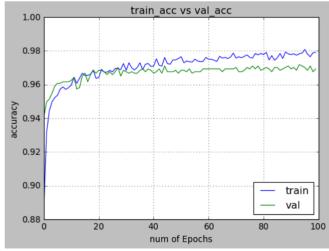
```
147/147 [============] - 8s 57ms/step - loss: 0.0622 - accuracy: 0.9778 - val_loss: 0.0878 - val_accuracy: 0.9693
     Epoch 92/100
                  =========] - 8s 57ms/step - loss: 0.0613 - accuracy: 0.9782 - val_loss: 0.0872 - val_accuracy: 0.9701
     147/147 [====
     Epoch 93/100
                  :==========] - 8s 57ms/step - loss: 0.0587 - accuracy: 0.9774 - val_loss: 0.0872 - val_accuracy: 0.9684
     147/147 [====
     Epoch 94/100
     Epoch 95/100
     147/147 [====
                    :========] - 8s 57ms/step - loss: 0.0626 - accuracy: 0.9787 - val_loss: 0.0897 - val_accuracy: 0.9710
     Epoch 96/100
     147/147 [=====
                  Epoch 97/100
     147/147 [====
                  Epoch 98/100
     147/147 [====
                 ===========] - 8s 57ms/step - loss: 0.0599 - accuracy: 0.9765 - val_loss: 0.0895 - val_accuracy: 0.9710
     Epoch 99/100
     Epoch 100/100
     147/147 [===========] - 8s 57ms/step - loss: 0.0555 - accuracy: 0.9791 - val_loss: 0.0901 - val_accuracy: 0.9693
     Training time: -848.8196833133698
     [INFO] loss=0.0901, accuracy: 96.9283%
In [15]: (loss, accuracy) = custom_resnet_model.evaluate(X_test, y_test, batch_size=10, verbose=1)
     print("[INFO] loss={:.4f}, accuracy: {:.4f}%".format(loss,accuracy * 100))
```

visualizing losses and accuracy

In [16]: display_loss_accuracy(hist)

[INFO] loss=0.0901, accuracy: 96.9283%





```
In [11]: image_input = Input(shape=(224, 224, 3))
    model = MobileNetV2(input_tensor=image_input, include_top=True,weights='imagenet')
    model.summary()
    output_layer = model(image_input)

# Last_Layer = model.get_Layer('avg_pool').output

x= Flatten(name='flatten')(output_layer)
    out = Dense(num_classes, activation='softmax', name='output_layer')(x)
    custom_resnet_model = Model(inputs=image_input,outputs= out)
    custom_resnet_model.summary()
```

 $Downloading \ data \ from \ https://storage.googleapis.com/tensorflow/keras-applications/mobilenet_v2/mobilenet_v2_weights_tf_dim_ordering_tf_kernels_1.0_224.h5$

14540800/14536120 [===========] - 1s Ous/step

Model: "mobilenetv2_1.00_224"

Layer (type)	Output Shape	Param #	Connected to
input_1 (InputLayer)	======================================		
Conv1_pad (ZeroPadding2D)	(None, 225, 225, 3)	0	input_1[0][0]
Conv1 (Conv2D)	(None, 112, 112, 32)	864	Conv1_pad[0][0]
bn_Conv1 (BatchNormalization)	(None, 112, 112, 32)	128	Conv1[0][0]
Conv1_relu (ReLU)	(None, 112, 112, 32)	0	bn_Conv1[0][0]
expanded_conv_depthwise (Depthw	(None, 112, 112, 32)	288	Conv1_relu[0][0]
expanded_conv_depthwise_BN (Bat	(None, 112, 112, 32)	128	expanded_conv_depthwise[0][0]
expanded_conv_depthwise_relu (R	(None, 112, 112, 32)	0	expanded_conv_depthwise_BN[0][0]
expanded_conv_project (Conv2D)	(None, 112, 112, 16)	512	expanded_conv_depthwise_relu[0][0
expanded_conv_project_BN (Batch	(None, 112, 112, 16)	64	expanded_conv_project[0][0]
block_1_expand (Conv2D)	(None, 112, 112, 96)	1536	expanded_conv_project_BN[0][0]
block_1_expand_BN (BatchNormali	(None, 112, 112, 96)	384	block_1_expand[0][0]
block_1_expand_relu (ReLU)	(None, 112, 112, 96)	0	block_1_expand_BN[0][0]
block_1_pad (ZeroPadding2D)	(None, 113, 113, 96)	0	block_1_expand_relu[0][0]
block_1_depthwise (DepthwiseCon	(None, 56, 56, 96)	864	block_1_pad[0][0]
block_1_depthwise_BN (BatchNorm	(None, 56, 56, 96)	384	block_1_depthwise[0][0]
block_1_depthwise_relu (ReLU)	(None, 56, 56, 96)	0	block_1_depthwise_BN[0][0]
block_1_project (Conv2D)	(None, 56, 56, 24)	2304	block_1_depthwise_relu[0][0]
block_1_project_BN (BatchNormal	(None, 56, 56, 24)	96	block_1_project[0][0]
block_2_expand (Conv2D)	(None, 56, 56, 144)	3456	block_1_project_BN[0][0]
block_2_expand_BN (BatchNormali	(None, 56, 56, 144)	576	block_2_expand[0][0]
block_2_expand_relu (ReLU)	(None, 56, 56, 144)	0	block_2_expand_BN[0][0]
block_2_depthwise (DepthwiseCon	(None, 56, 56, 144)	1296	block_2_expand_relu[0][0]
block_2_depthwise_BN (BatchNorm	(None, 56, 56, 144)	576	block_2_depthwise[0][0]
block_2_depthwise_relu (ReLU)	(None, 56, 56, 144)	0	block_2_depthwise_BN[0][0]
block_2_project (Conv2D)	(None, 56, 56, 24)	3456	block_2_depthwise_relu[0][0]
block_2_project_BN (BatchNormal	(None, 56, 56, 24)	96	block_2_project[0][0]
block_2_add (Add)	(None, 56, 56, 24)	0	block_1_project_BN[0][0] block_2_project_BN[0][0]
block_3_expand (Conv2D)	(None, 56, 56, 144)	3456	block_2_add[0][0]
block_3_expand_BN (BatchNormali	(None, 56, 56, 144)	576	block_3_expand[0][0]
block_3_expand_relu (ReLU)	(None, 56, 56, 144)	0	block_3_expand_BN[0][0]
block_3_pad (ZeroPadding2D)	(None, 57, 57, 144)	0	block_3_expand_relu[0][0]
block_3_depthwise (DepthwiseCon	(None, 28, 28, 144)	1296	block_3_pad[0][0]
block_3_depthwise_BN (BatchNorm	(None, 28, 28, 144)	576	block_3_depthwise[0][0]
block_3_depthwise_relu (ReLU)	(None, 28, 28, 144)	0	block_3_depthwise_BN[0][0]
block_3_project (Conv2D)	(None, 28, 28, 32)	4608	block_3_depthwise_relu[0][0]
block_3_project_BN (BatchNormal	(None, 28, 28, 32)	128	block_3_project[0][0]
block_4_expand (Conv2D)	(None, 28, 28, 192)	6144	block_3_project_BN[0][0]
block_4_expand_BN (BatchNormali	(None, 28, 28, 192)	768	block_4_expand[0][0]
block_4_expand_relu (ReLU)	(None, 28, 28, 192)	0	block_4_expand_BN[0][0]
block_4_depthwise (DepthwiseCon	(None, 28, 28, 192)	1728	block_4_expand_relu[0][0]
block_4_depthwise_BN (BatchNorm	(None, 28, 28, 192)	768	block_4_depthwise[0][0]

block_4_depthwise_relu (ReLU)	(None,	28,	28,	192)	0	block_4_depthwise_BN[0][0]
block_4_project (Conv2D)	(None,				6144	block_4_depthwise_relu[0][0]
block_4_project_BN (BatchNormal	(None,	28,	28,	32)	128	block_4_project[0][0]
block_4_add (Add)	(None,	28,	28,	32)	0	block_3_project_BN[0][0] block_4_project_BN[0][0]
block_5_expand (Conv2D)	(None,	28,	28,	192)	6144	block_4_add[0][0]
block_5_expand_BN (BatchNormali	(None,	28,	28,	192)	768	block_5_expand[0][0]
block_5_expand_relu (ReLU)	(None,	28,	28,	192)	0	block_5_expand_BN[0][0]
block_5_depthwise (DepthwiseCon	(None,	28,	28,	192)	1728	block_5_expand_relu[0][0]
block_5_depthwise_BN (BatchNorm	(None,	28,	28,	192)	768	block_5_depthwise[0][0]
block_5_depthwise_relu (ReLU)	(None,	28,	28,	192)	0	block_5_depthwise_BN[0][0]
block_5_project (Conv2D)	(None,	28,	28,	32)	6144	block_5_depthwise_relu[0][0]
block_5_project_BN (BatchNormal	(None,	28,	28,	32)	128	block_5_project[0][0]
block_5_add (Add)	(None,	28,	28,	32)	0	block_4_add[0][0] block_5_project_BN[0][0]
block_6_expand (Conv2D)	(None,	28,	28,	192)	6144	block_5_add[0][0]
block_6_expand_BN (BatchNormali	(None,	28,	28,	192)	768	block_6_expand[0][0]
block_6_expand_relu (ReLU)	(None,	28,	28,	192)	0	block_6_expand_BN[0][0]
block_6_pad (ZeroPadding2D)	(None,	29,	29,	192)	0	block_6_expand_relu[0][0]
block_6_depthwise (DepthwiseCon	(None,	14,	14,	192)	1728	block_6_pad[0][0]
block_6_depthwise_BN (BatchNorm	(None,	14,	14,	192)	768	block_6_depthwise[0][0]
block_6_depthwise_relu (ReLU)	(None,	14,	14,	192)	0	block_6_depthwise_BN[0][0]
block_6_project (Conv2D)	(None,	14,	14,	64)	12288	block_6_depthwise_relu[0][0]
block_6_project_BN (BatchNormal	(None,	14,	14,	64)	256	block_6_project[0][0]
block_7_expand (Conv2D)	(None,	14,	14,	384)	24576	block_6_project_BN[0][0]
block_7_expand_BN (BatchNormali	(None,	14,	14,	384)	1536	block_7_expand[0][0]
block_7_expand_relu (ReLU)	(None,	14,	14,	384)	0	block_7_expand_BN[0][0]
block_7_depthwise (DepthwiseCon	(None,	14,	14,	384)	3456	block_7_expand_relu[0][0]
block_7_depthwise_BN (BatchNorm	(None,	14,	14,	384)	1536	block_7_depthwise[0][0]
block_7_depthwise_relu (ReLU)	(None,	14,	14,	384)	0	block_7_depthwise_BN[0][0]
block_7_project (Conv2D)	(None,	14,	14,	64)	24576	block_7_depthwise_relu[0][0]
block_7_project_BN (BatchNormal	(None,	14,	14,	64)	256	block_7_project[0][0]
block_7_add (Add)	(None,	14,	14,	64)	0	block_6_project_BN[0][0] block_7_project_BN[0][0]
block_8_expand (Conv2D)	(None,	14,	14,	384)	24576	block_7_add[0][0]
block_8_expand_BN (BatchNormali	(None,	14,	14,	384)	1536	block_8_expand[0][0]
block_8_expand_relu (ReLU)	(None,	14,	14,	384)	0	block_8_expand_BN[0][0]
block_8_depthwise (DepthwiseCon	(None,	14,	14,	384)	3456	block_8_expand_relu[0][0]
block_8_depthwise_BN (BatchNorm	(None,	14,	14,	384)	1536	block_8_depthwise[0][0]
block_8_depthwise_relu (ReLU)	(None,	14,	14,	384)	0	block_8_depthwise_BN[0][0]
block_8_project (Conv2D)	(None,	14,	14,	64)	24576	block_8_depthwise_relu[0][0]
block_8_project_BN (BatchNormal	(None,	14,	14,	64)	256	block_8_project[0][0]
block_8_add (Add)	(None,	14,	14,	64)	0	block_7_add[0][0] block_8_project_BN[0][0]
block_9_expand (Conv2D)	(None,	14,	14,	384)	24576	block_8_add[0][0]
block_9_expand_BN (BatchNormali	(None,	14,	14,	384)	1536	block_9_expand[0][0]
block_9_expand_relu (ReLU)	(None,	14,	14,	384)	0	block_9_expand_BN[0][0]

block_9_depthwise (DepthwiseCon	(None.	14.	14.	384)	3456	block_9_expand_relu[0][0]
block 9 depthwise BN (BatchNorm					1536	block_9_depthwise[0][0]
block 9 depthwise relu (ReLU)	(None,				0	block_9_depthwise_BN[0][0]
block 9 project (Conv2D)	(None,				24576	block_9_depthwise_relu[0][0]
block_9_project_BN (BatchNormal					256	block_9_project[0][0]
block 9 add (Add)	(None,				0	block_8_add[0][0]
DIOCK_J_aud (Aud)	(None,	17,	17,	04)	Ü	block_9_project_BN[0][0]
block_10_expand (Conv2D)	(None,	14,	14,	384)	24576	block_9_add[0][0]
block_10_expand_BN (BatchNormal	(None,	14,	14,	384)	1536	block_10_expand[0][0]
block_10_expand_relu (ReLU)	(None,	14,	14,	384)	0	block_10_expand_BN[0][0]
block_10_depthwise (DepthwiseCo	(None,	14,	14,	384)	3456	block_10_expand_relu[0][0]
block_10_depthwise_BN (BatchNor	(None,	14,	14,	384)	1536	block_10_depthwise[0][0]
block_10_depthwise_relu (ReLU)	(None,	14,	14,	384)	0	block_10_depthwise_BN[0][0]
block_10_project (Conv2D)	(None,	14,	14,	96)	36864	block_10_depthwise_relu[0][0]
block_10_project_BN (BatchNorma	(None,	14,	14,	96)	384	block_10_project[0][0]
block_11_expand (Conv2D)	(None,	14,	14,	576)	55296	block_10_project_BN[0][0]
block_11_expand_BN (BatchNormal	(None,	14,	14,	576)	2304	block_11_expand[0][0]
block_11_expand_relu (ReLU)	(None,	14,	14,	576)	0	block_11_expand_BN[0][0]
block_11_depthwise (DepthwiseCo	(None,	14,	14,	576)	5184	block_11_expand_relu[0][0]
block_11_depthwise_BN (BatchNor	(None,	14,	14,	576)	2304	block_11_depthwise[0][0]
block_11_depthwise_relu (ReLU)	(None,	14,	14,	576)	0	block_11_depthwise_BN[0][0]
block_11_project (Conv2D)	(None,	14,	14,	96)	55296	block_11_depthwise_relu[0][0]
block_11_project_BN (BatchNorma	(None,	14,	14,	96)	384	block_11_project[0][0]
block_11_add (Add)	(None,	14,	14,	96)	0	block_10_project_BN[0][0]
						block_11_project_BN[0][0]
block_12_expand (Conv2D)	(None,	14,	14,	576)	55296	block_11_add[0][0]
block_12_expand_BN (BatchNormal	(None,	14,	14,	576)	2304	block_12_expand[0][0]
block_12_expand_relu (ReLU)	(None,	14,	14,	576)	0	block_12_expand_BN[0][0]
block_12_depthwise (DepthwiseCo	(None,	14,	14,	576)	5184	block_12_expand_relu[0][0]
block_12_depthwise_BN (BatchNor	(None,	14,	14,	576)	2304	block_12_depthwise[0][0]
block_12_depthwise_relu (ReLU)	(None,	14,	14,	576)	0	block_12_depthwise_BN[0][0]
block_12_project (Conv2D)	(None,	14,	14,	96)	55296	block_12_depthwise_relu[0][0]
block_12_project_BN (BatchNorma	(None,	14,	14,	96)	384	block_12_project[0][0]
block_12_add (Add)	(None,	14,	14,	96)	0	block_11_add[0][0] block_12_project_BN[0][0]
block_13_expand (Conv2D)	(None,	14,	14,	576)	55296	block_12_add[0][0]
block_13_expand_BN (BatchNormal	(None,	14,	14,	576)	2304	block_13_expand[0][0]
block_13_expand_relu (ReLU)	(None,	14,	14,	576)	0	block_13_expand_BN[0][0]
block_13_pad (ZeroPadding2D)	(None,	15,	15,	576)	0	block_13_expand_relu[0][0]
block_13_depthwise (DepthwiseCo	(None,	7,	7, 5	76)	5184	block_13_pad[0][0]
block_13_depthwise_BN (BatchNor	(None,	7,	7, 5	76)	2304	block_13_depthwise[0][0]
block_13_depthwise_relu (ReLU)	(None,	7,	7, 5	76)	0	block_13_depthwise_BN[0][0]
block_13_project (Conv2D)	(None,	7,	7, 10	50)	92160	block_13_depthwise_relu[0][0]
block_13_project_BN (BatchNorma	(None,	7,	7, 10	50)	640	block_13_project[0][0]
block_14_expand (Conv2D)	(None,	7,	7, 9	50)	153600	block_13_project_BN[0][0]
block_14_expand_BN (BatchNormal	(None,	7,	7, 9	50)	3840	block_14_expand[0][0]
block_14_expand_relu (ReLU)	(None,	7,	7, 9	50)	0	block_14_expand_BN[0][0]

block_14_depthwise (DepthwiseCo	(None,	7,	7,	960)	8640	block_14_expand_relu[0][0]
block_14_depthwise_BN (BatchNor	(None,	7,	7,	960)	3840	block_14_depthwise[0][0]
block_14_depthwise_relu (ReLU)	(None,	7,	7,	960)	0	block_14_depthwise_BN[0][0]
block_14_project (Conv2D)	(None,	7,	7,	160)	153600	block_14_depthwise_relu[0][0]
block_14_project_BN (BatchNorma	(None,	7,	7,	160)	640	block_14_project[0][0]
block_14_add (Add)	(None,	7,	7,	160)	0	block_13_project_BN[0][0] block_14_project_BN[0][0]
block_15_expand (Conv2D)	(None,	7,	7,	960)	153600	block_14_add[0][0]
block_15_expand_BN (BatchNormal	(None,	7,	7,	960)	3840	block_15_expand[0][0]
block_15_expand_relu (ReLU)	(None,	7,	7,	960)	0	block_15_expand_BN[0][0]
block_15_depthwise (DepthwiseCo	(None,	7,	7,	960)	8640	block_15_expand_relu[0][0]
block_15_depthwise_BN (BatchNor	(None,	7,	7,	960)	3840	block_15_depthwise[0][0]
block_15_depthwise_relu (ReLU)	(None,	7,	7,	960)	0	block_15_depthwise_BN[0][0]
block_15_project (Conv2D)	(None,	7,	7,	160)	153600	block_15_depthwise_relu[0][0]
block_15_project_BN (BatchNorma	(None,	7,	7,	160)	640	block_15_project[0][0]
block_15_add (Add)	(None,	7,	7,	160)	0	block_14_add[0][0] block_15_project_BN[0][0]
block_16_expand (Conv2D)	(None,	7,	7,	960)	153600	block_15_add[0][0]
block_16_expand_BN (BatchNormal	(None,	7,	7,	960)	3840	block_16_expand[0][0]
block_16_expand_relu (ReLU)	(None,	7,	7,	960)	0	block_16_expand_BN[0][0]
block_16_depthwise (DepthwiseCo	(None,	7,	7,	960)	8640	block_16_expand_relu[0][0]
block_16_depthwise_BN (BatchNor	(None,	7,	7,	960)	3840	block_16_depthwise[0][0]
block_16_depthwise_relu (ReLU)	(None,	7,	7,	960)	0	block_16_depthwise_BN[0][0]
block_16_project (Conv2D)	(None,	7,	7,	320)	307200	block_16_depthwise_relu[0][0]
block_16_project_BN (BatchNorma	(None,	7,	7,	320)	1280	block_16_project[0][0]
Conv_1 (Conv2D)	(None,	7,	7,	1280)	409600	block_16_project_BN[0][0]
Conv_1_bn (BatchNormalization)	(None,	7,	7,	1280)	5120	Conv_1[0][0]
out_relu (ReLU)	(None,	7,	7,	1280)	0	Conv_1_bn[0][0]
global_average_pooling2d (Globa	(None,	128	30)		0	out_relu[0][0]
predictions (Dense)	(None,	100	90)		1281000	<pre>global_average_pooling2d[0][0]</pre>

Total params: 3,538,984 Trainable params: 3,504,872 Non-trainable params: 34,112

Model: "functional_1"

Layer (type)	Output Shape	Param #
input_1 (InputLayer)	[(None, 224, 224, 3)]	0
mobilenetv2_1.00_224 (Functi	(None, 1000)	3538984
flatten (Flatten)	(None, 1000)	0
output_layer (Dense)	(None, 2)	2002
Total params: 3,540,986 Trainable params: 3,506,874	=======================================	

Trainable params: 3,506,874 Non-trainable params: 34,112

Out[12]: True

In [13]: custom_resnet_model.compile(loss='categorical_crossentropy',optimizer='adam',metrics=['accuracy'])

```
In [14]: t = time.time()
hist = custom_resnet_model.fit(X_train, y_train, batch_size=32, epochs=num_epoch, verbose=1, validation_data=(X_test, y_test))
print('Training time: %s' % (t - time.time()))
(loss, accuracy) = custom_resnet_model.evaluate(X_test, y_test, batch_size=10, verbose=1)
print("[INFO] loss={:.4f}, accuracy: {:.4f}%".format(loss,accuracy * 100))
```

```
Epoch 1/100
Epoch 2/100
147/147 [===
                  :=======] - 6s 41ms/step - loss: 0.5841 - accuracy: 0.7289 - val loss: 0.5623 - val accuracy: 0.7338
Epoch 3/100
147/147 [====
              Epoch 4/100
147/147 [===
           Epoch 5/100
147/147 [===
              ==========  - 6s 41ms/step - loss: 0.5217 - accuracy: 0.7312 - val loss: 0.5073 - val accuracy: 0.7398
Epoch 6/100
147/147 [===
              Epoch 7/100
147/147 [====
             ==========] - 6s 41ms/step - loss: 0.4961 - accuracy: 0.7376 - val_loss: 0.4815 - val_accuracy: 0.7449
Fnoch 8/100
147/147 [=====
             Enoch 9/100
147/147 [====
               =========== ] - 6s 41ms/step - loss: 0.4740 - accuracv: 0.7487 - val loss: 0.4591 - val accuracv: 0.7568
Epoch 10/100
           147/147 [======
Epoch 11/100
147/147 [====
              =========] - 6s 41ms/step - loss: 0.4549 - accuracy: 0.7626 - val_loss: 0.4394 - val_accuracy: 0.7619
Epoch 12/100
147/147 [====
              Epoch 13/100
147/147 [====
                  :=======] - 6s 41ms/step - loss: 0.4381 - accuracy: 0.7763 - val loss: 0.4221 - val accuracy: 0.7713
Epoch 14/100
147/147 [====
                   ========] - 6s 41ms/step - loss: 0.4306 - accuracy: 0.7835 - val loss: 0.4143 - val accuracy: 0.7807
Epoch 15/100
147/147 [====
               ==========] - 6s 41ms/step - loss: 0.4235 - accuracy: 0.7912 - val_loss: 0.4069 - val_accuracy: 0.7850
Epoch 16/100
147/147 [====
               :=========] - 6s 41ms/step - loss: 0.4169 - accuracy: 0.7965 - val_loss: 0.4000 - val_accuracy: 0.7884
Epoch 17/100
147/147 [====
               ==========] - 6s 41ms/step - loss: 0.4106 - accuracy: 0.8019 - val_loss: 0.3934 - val_accuracy: 0.7986
Epoch 18/100
147/147 [====
           Epoch 19/100
147/147 [=====
             Epoch 20/100
Epoch 21/100
147/147 [==========] - 6s 41ms/step - loss: 0.3888 - accuracy: 0.8256 - val loss: 0.3705 - val accuracy: 0.8345
Fnoch 22/100
147/147 [===========] - 6s 41ms/step - loss: 0.3842 - accuracy: 0.8309 - val loss: 0.3656 - val accuracy: 0.8370
Epoch 23/100
Epoch 24/100
147/147 [====
              ==========] - 6s 41ms/step - loss: 0.3755 - accuracy: 0.8407 - val_loss: 0.3563 - val_accuracy: 0.8456
Epoch 25/100
147/147 [=====
                  ========] - 6s 41ms/step - loss: 0.3715 - accuracy: 0.8448 - val_loss: 0.3520 - val_accuracy: 0.8473
Epoch 26/100
147/147 [====
                       =====] - 6s 41ms/step - loss: 0.3676 - accuracy: 0.8486 - val_loss: 0.3480 - val_accuracy: 0.8549
Epoch 27/100
147/147 [=====
                 ========] - 6s 41ms/step - loss: 0.3639 - accuracy: 0.8499 - val_loss: 0.3441 - val_accuracy: 0.8592
Epoch 28/100
147/147 [====
              Epoch 29/100
147/147 [====
                 ==========] - 6s 41ms/step - loss: 0.3572 - accuracy: 0.8559 - val_loss: 0.3368 - val_accuracy: 0.8626
Epoch 30/100
147/147 [==========] - 6s 41ms/step - loss: 0.3540 - accuracy: 0.8589 - val loss: 0.3334 - val accuracy: 0.8686
Epoch 31/100
147/147 [====
             ==========] - 6s 41ms/step - loss: 0.3509 - accuracy: 0.8610 - val_loss: 0.3301 - val_accuracy: 0.8712
Enoch 32/100
Enoch 33/100
147/147 [====
              ===========] - 6s 41ms/step - loss: 0.3452 - accuracy: 0.8678 - val loss: 0.3240 - val accuracy: 0.8763
Epoch 34/100
147/147 [===========] - 6s 41ms/step - loss: 0.3425 - accuracy: 0.8706 - val_loss: 0.3211 - val_accuracy: 0.8788
Epoch 35/100
147/147 [====
                  :========] - 6s 41ms/step - loss: 0.3399 - accuracy: 0.8711 - val_loss: 0.3183 - val_accuracy: 0.8823
Epoch 36/100
147/147 [=====
             :==========] - 6s 41ms/step - loss: 0.3375 - accuracy: 0.8723 - val_loss: 0.3157 - val_accuracy: 0.8848
Epoch 37/100
147/147 [=====
             Epoch 38/100
147/147 [===
                     :======] - 6s 41ms/step - loss: 0.3328 - accuracy: 0.8772 - val_loss: 0.3106 - val_accuracy: 0.8865
Epoch 39/100
147/147 [====
              Epoch 40/100
147/147 [====
                    :======] - 6s 41ms/step - loss: 0.3284 - accuracy: 0.8796 - val_loss: 0.3060 - val_accuracy: 0.8916
Epoch 41/100
147/147 [====
              ==========] - 6s 41ms/step - loss: 0.3264 - accuracy: 0.8798 - val_loss: 0.3038 - val_accuracy: 0.8916
Epoch 42/100
147/147 [====
                 =========] - 6s 41ms/step - loss: 0.3244 - accuracy: 0.8813 - val_loss: 0.3017 - val_accuracy: 0.8925
Epoch 43/100
147/147 [====
           Epoch 44/100
147/147 [====
                 ========] - 6s 41ms/step - loss: 0.3206 - accuracy: 0.8826 - val loss: 0.2977 - val accuracy: 0.8933
Epoch 45/100
147/147 [====
              ==========] - 6s 41ms/step - loss: 0.3188 - accuracy: 0.8830 - val_loss: 0.2958 - val_accuracy: 0.8951
```

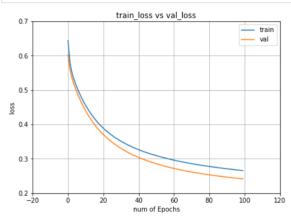
Epoch 46/100

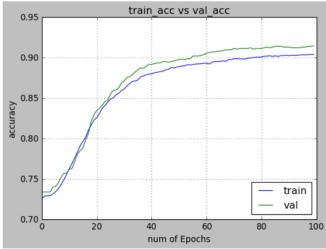
```
Epoch 47/100
147/147 [====
                   :=======] - 6s 41ms/step - loss: 0.3154 - accuracy: 0.8854 - val_loss: 0.2921 - val_accuracy: 0.8942
Epoch 48/100
147/147 [====
              ==========] - 6s 41ms/step - loss: 0.3137 - accuracy: 0.8875 - val_loss: 0.2903 - val_accuracy: 0.8951
Epoch 49/100
147/147 [==========] - 6s 41ms/step - loss: 0.3121 - accuracy: 0.8871 - val_loss: 0.2886 - val_accuracy: 0.8959
Epoch 50/100
147/147 [====
              ==========] - 6s 41ms/step - loss: 0.3106 - accuracy: 0.8881 - val loss: 0.2870 - val accuracy: 0.8968
Epoch 51/100
147/147 [=====
              ==========] - 6s 41ms/step - loss: 0.3090 - accuracy: 0.8890 - val_loss: 0.2854 - val_accuracy: 0.8976
Epoch 52/100
147/147 [====
              =========] - 6s 41ms/step - loss: 0.3076 - accuracy: 0.8894 - val_loss: 0.2838 - val_accuracy: 0.8976
Epoch 53/100
147/147 [=====
              ==========] - 6s 41ms/step - loss: 0.3062 - accuracy: 0.8898 - val_loss: 0.2823 - val_accuracy: 0.8976
Epoch 54/100
Epoch 55/100
147/147 [=====
             Epoch 56/100
147/147 [====
              Epoch 57/100
147/147 [======
           =========================== | - 6s 41ms/step - loss: 0.3008 - accuracy: 0.8920 - val loss: 0.2768 - val accuracy: 0.9019
Fnoch 58/100
147/147 [===========] - 6s 41ms/step - loss: 0.2995 - accuracy: 0.8922 - val_loss: 0.2755 - val_accuracy: 0.9019
Epoch 59/100
147/147 [=====
             Epoch 60/100
147/147 [====
             :==========] - 6s 41ms/step - loss: 0.2971 - accuracy: 0.8930 - val_loss: 0.2730 - val_accuracy: 0.9036
Epoch 61/100
147/147 [====
                  ========] - 6s 41ms/step - loss: 0.2960 - accuracy: 0.8928 - val_loss: 0.2718 - val_accuracy: 0.9053
Epoch 62/100
147/147 [====
               Epoch 63/100
147/147 [====
               :=========] - 6s 41ms/step - loss: 0.2937 - accuracy: 0.8943 - val_loss: 0.2695 - val_accuracy: 0.9070
Epoch 64/100
147/147 [====
                Epoch 65/100
147/147 [====
               ==========] - 6s 41ms/step - loss: 0.2916 - accuracy: 0.8950 - val_loss: 0.2673 - val_accuracy: 0.9078
Epoch 66/100
147/147 [==========] - 6s 41ms/step - loss: 0.2906 - accuracy: 0.8952 - val loss: 0.2663 - val accuracy: 0.9078
Epoch 67/100
147/147 [====
              ==========] - 6s 41ms/step - loss: 0.2897 - accuracy: 0.8960 - val_loss: 0.2652 - val_accuracy: 0.9087
Epoch 68/100
147/147 [============] - 6s 41ms/step - loss: 0.2887 - accuracy: 0.8954 - val loss: 0.2642 - val accuracy: 0.9096
Epoch 69/100
147/147 [=====
          =========== ] - 6s 41ms/step - loss: 0.2877 - accuracy: 0.8975 - val loss: 0.2633 - val accuracy: 0.9096
Epoch 70/100
Enoch 71/100
147/147 [====
              ==========] - 6s 41ms/step - loss: 0.2858 - accuracy: 0.8986 - val_loss: 0.2614 - val_accuracy: 0.9113
Epoch 72/100
147/147 [======
              Epoch 73/100
Epoch 74/100
147/147 [====
                ========] - 6s 41ms/step - loss: 0.2832 - accuracy: 0.8984 - val_loss: 0.2588 - val_accuracy: 0.9113
Epoch 75/100
147/147 [=====
              =========== ] - 6s 41ms/step - loss: 0.2823 - accuracy: 0.8982 - val loss: 0.2579 - val accuracy: 0.9113
Epoch 76/100
147/147 [====
                  :========] - 6s 41ms/step - loss: 0.2815 - accuracy: 0.8990 - val_loss: 0.2571 - val_accuracy: 0.9113
Epoch 77/100
Epoch 78/100
147/147 [====
              ==========] - 6s 41ms/step - loss: 0.2799 - accuracy: 0.8999 - val_loss: 0.2555 - val_accuracy: 0.9104
Epoch 79/100
Epoch 80/100
147/147 [======
           Epoch 81/100
147/147 [====
              ==========] - 6s 41ms/step - loss: 0.2776 - accuracy: 0.9007 - val_loss: 0.2533 - val_accuracy: 0.9113
Epoch 82/100
147/147 [=========== ] - 6s 41ms/step - loss: 0.2769 - accuracy: 0.9016 - val loss: 0.2525 - val accuracy: 0.9121
Fnoch 83/100
147/147 [====
              ==========] - 6s 41ms/step - loss: 0.2762 - accuracy: 0.9018 - val_loss: 0.2518 - val_accuracy: 0.9130
Fnoch 84/100
147/147 [======
             Epoch 85/100
147/147 [===
                   =======] - 6s 41ms/step - loss: 0.2748 - accuracy: 0.9014 - val_loss: 0.2505 - val_accuracy: 0.9130
Epoch 86/100
147/147 [====
               :========] - 6s 41ms/step - loss: 0.2741 - accuracy: 0.9022 - val_loss: 0.2498 - val_accuracy: 0.9138
Epoch 87/100
                       =====] - 6s 41ms/step - loss: 0.2734 - accuracy: 0.9014 - val_loss: 0.2492 - val_accuracy: 0.9138
147/147 [===
Epoch 88/100
147/147 [===
                         ===] - 6s 41ms/step - loss: 0.2727 - accuracy: 0.9024 - val_loss: 0.2485 - val_accuracy: 0.9138
Epoch 89/100
147/147 [====
              =========] - 6s 41ms/step - loss: 0.2721 - accuracy: 0.9024 - val_loss: 0.2479 - val_accuracy: 0.9130
Epoch 90/100
147/147 [====
             Epoch 91/100
147/147 [==========] - 6s 41ms/step - loss: 0.2708 - accuracy: 0.9024 - val loss: 0.2466 - val accuracy: 0.9130
```

```
Enoch 92/100
               =========== | - 6s 41ms/step - loss: 0.2702 - accuracy: 0.9029 - val loss: 0.2460 - val accuracy: 0.9121
147/147 [====
Epoch 93/100
147/147 [============] - 6s 41ms/step - loss: 0.2696 - accuracy: 0.9026 - val_loss: 0.2454 - val_accuracy: 0.9121
Epoch 94/100
                   =========] - 6s 41ms/step - loss: 0.2690 - accuracy: 0.9026 - val_loss: 0.2449 - val_accuracy: 0.9121
147/147 [====
Epoch 95/100
147/147 [=====
               =========] - 6s 41ms/step - loss: 0.2684 - accuracy: 0.9033 - val_loss: 0.2443 - val_accuracy: 0.9121
Epoch 96/100
147/147 [====
                  =========] - 6s 41ms/step - loss: 0.2678 - accuracy: 0.9035 - val_loss: 0.2437 - val_accuracy: 0.9130
Epoch 97/100
147/147 [====
             ====================== ] - 6s 41ms/step - loss: 0.2672 - accuracy: 0.9033 - val_loss: 0.2432 - val_accuracy: 0.9130
Epoch 98/100
147/147 [====
               Epoch 99/100
147/147 [============= - - 6s 41ms/step - loss: 0.2661 - accuracy: 0.9037 - val loss: 0.2421 - val accuracy: 0.9138
Epoch 100/100
147/147 [==========] - 6s 41ms/step - loss: 0.2655 - accuracy: 0.9039 - val loss: 0.2416 - val accuracy: 0.9147
Training time: -609.8109776973724
[INFO] loss=0.2416, accuracy: 91.4676%
```

visualizing losses and accuracy

In [16]: display loss accuracy(hist)





Resnet50

```
In [11]: image_input = Input(shape=(224, 224, 3))
    model = ResNet50(input_tensor=image_input, include_top=True,weights='imagenet')
    model.summary()
    last_layer = model.get_layer('avg_pool').output
    x= Flatten(name='flatten')(last_layer)
    out = Dense(num_classes, activation='softmax', name='output_layer')(x)
    custom_resnet_model = Model(inputs=image_input,outputs= out)
    custom_resnet_model.summary()
```

	0.1.1.61		
Layer (type)			Connected to
input_1 (InputLayer)	[(None, 224, 224, 3)		
conv1_pad (ZeroPadding2D)	(None, 230, 230, 3)		input_1[0][0]
conv1_conv (Conv2D)	(None, 112, 112, 64)		conv1_pad[0][0]
conv1_bn (BatchNormalization)	(None, 112, 112, 64)		conv1_conv[0][0]
conv1_relu (Activation)	(None, 112, 112, 64)		conv1_bn[0][0]
pool1_pad (ZeroPadding2D)	(None, 114, 114, 64)	0	conv1_relu[0][0]
pool1_pool (MaxPooling2D)	(None, 56, 56, 64)	0	pool1_pad[0][0]
conv2_block1_1_conv (Conv2D)	(None, 56, 56, 64)	4160	pool1_pool[0][0]
conv2_block1_1_bn (BatchNormali	(None, 56, 56, 64)	256	conv2_block1_1_conv[0][0]
conv2_block1_1_relu (Activation	(None, 56, 56, 64)	0	conv2_block1_1_bn[0][0]
conv2_block1_2_conv (Conv2D)	(None, 56, 56, 64)	36928	conv2_block1_1_relu[0][0]
conv2_block1_2_bn (BatchNormali	(None, 56, 56, 64)	256	conv2_block1_2_conv[0][0]
conv2_block1_2_relu (Activation	(None, 56, 56, 64)	0	conv2_block1_2_bn[0][0]
conv2_block1_0_conv (Conv2D)	(None, 56, 56, 256)	16640	pool1_pool[0][0]
conv2_block1_3_conv (Conv2D)	(None, 56, 56, 256)	16640	conv2_block1_2_relu[0][0]
conv2_block1_0_bn (BatchNormali	(None, 56, 56, 256)	1024	conv2_block1_0_conv[0][0]
conv2_block1_3_bn (BatchNormali	(None, 56, 56, 256)	1024	conv2_block1_3_conv[0][0]
conv2_block1_add (Add)	(None, 56, 56, 256)	0	conv2_block1_0_bn[0][0] conv2_block1_3_bn[0][0]
conv2_block1_out (Activation)	(None, 56, 56, 256)	0	conv2_block1_add[0][0]
conv2_block2_1_conv (Conv2D)	(None, 56, 56, 64)	16448	conv2_block1_out[0][0]
conv2_block2_1_bn (BatchNormali	(None, 56, 56, 64)	256	conv2_block2_1_conv[0][0]
conv2_block2_1_relu (Activation	(None, 56, 56, 64)	0	conv2_block2_1_bn[0][0]
conv2_block2_2_conv (Conv2D)	(None, 56, 56, 64)	36928	conv2_block2_1_relu[0][0]
conv2_block2_2_bn (BatchNormali	(None, 56, 56, 64)	256	conv2_block2_2_conv[0][0]
conv2_block2_2_relu (Activation	(None, 56, 56, 64)	0	conv2_block2_2_bn[0][0]
conv2_block2_3_conv (Conv2D)	(None, 56, 56, 256)	16640	conv2_block2_2_relu[0][0]
conv2_block2_3_bn (BatchNormali	(None, 56, 56, 256)	1024	conv2_block2_3_conv[0][0]
conv2_block2_add (Add)	(None, 56, 56, 256)	0	conv2_block1_out[0][0] conv2_block2_3_bn[0][0]
conv2_block2_out (Activation)	(None, 56, 56, 256)	0	conv2_block2_add[0][0]
conv2_block3_1_conv (Conv2D)	(None, 56, 56, 64)	16448	conv2_block2_out[0][0]
conv2_block3_1_bn (BatchNormali	(None, 56, 56, 64)	256	conv2_block3_1_conv[0][0]
conv2_block3_1_relu (Activation	(None, 56, 56, 64)	0	conv2_block3_1_bn[0][0]
conv2_block3_2_conv (Conv2D)	(None, 56, 56, 64)	36928	conv2_block3_1_relu[0][0]
conv2_block3_2_bn (BatchNormali	(None, 56, 56, 64)	256	conv2_block3_2_conv[0][0]
conv2_block3_2_relu (Activation	(None, 56, 56, 64)	0	conv2_block3_2_bn[0][0]
conv2_block3_3_conv (Conv2D)	(None, 56, 56, 256)	16640	conv2_block3_2_relu[0][0]
conv2_block3_3_bn (BatchNormali	(None, 56, 56, 256)	1024	conv2_block3_3_conv[0][0]
conv2_block3_add (Add)	(None, 56, 56, 256)	0	conv2_block2_out[0][0] conv2_block3_3_bn[0][0]
conv2_block3_out (Activation)	(None, 56, 56, 256)	0	conv2_block3_add[0][0]
conv3_block1_1_conv (Conv2D)	(None, 28, 28, 128)	32896	conv2_block3_out[0][0]
conv3_block1_1_bn (BatchNormali	(None, 28, 28, 128)	512	conv3_block1_1_conv[0][0]
conv3_block1_1_relu (Activation	(None, 28, 28, 128)	0	conv3_block1_1_bn[0][0]

conv3_block1_2_conv (Conv2D)	(None,	28.	28.	128)	147584	conv3_block1_1_relu[0][0]
conv3_block1_2_bn (BatchNormali					512	conv3_block1_2_conv[0][0]
conv3_block1_2_relu (Activation					0	conv3_block1_2_bn[0][0]
conv3_block1_0_conv (Conv2D)	(None,				131584	conv2_block3_out[0][0]
conv3_block1_3_conv (Conv2D)	(None,	28,	28,	512)	66048	conv3_block1_2_relu[0][0]
conv3_block1_0_bn (BatchNormali					2048	conv3_block1_0_conv[0][0]
conv3_block1_3_bn (BatchNormali					2048	conv3_block1_3_conv[0][0]
conv3_block1_add (Add)	(None,				0	conv3_block1_0_bn[0][0]
	,					conv3_block1_3_bn[0][0]
conv3_block1_out (Activation)	(None,	28,	28,	512)	0	conv3_block1_add[0][0]
conv3_block2_1_conv (Conv2D)	(None,	28,	28,	128)	65664	conv3_block1_out[0][0]
conv3_block2_1_bn (BatchNormali	(None,	28,	28,	128)	512	conv3_block2_1_conv[0][0]
conv3_block2_1_relu (Activation	(None,	28,	28,	128)	0	conv3_block2_1_bn[0][0]
conv3_block2_2_conv (Conv2D)	(None,	28,	28,	128)	147584	conv3_block2_1_relu[0][0]
conv3_block2_2_bn (BatchNormali	(None,	28,	28,	128)	512	conv3_block2_2_conv[0][0]
conv3_block2_2_relu (Activation	(None,	28,	28,	128)	0	conv3_block2_2_bn[0][0]
conv3_block2_3_conv (Conv2D)	(None,	28,	28,	512)	66048	conv3_block2_2_relu[0][0]
conv3_block2_3_bn (BatchNormali	(None,	28,	28,	512)	2048	conv3_block2_3_conv[0][0]
conv3_block2_add (Add)	(None,	28,	28,	512)	0	conv3_block1_out[0][0] conv3_block2_3_bn[0][0]
conv3_block2_out (Activation)	(None,	28,	28,	512)	0	conv3_block2_add[0][0]
conv3_block3_1_conv (Conv2D)	(None,	28,	28,	128)	65664	conv3_block2_out[0][0]
conv3_block3_1_bn (BatchNormali	(None,	28,	28,	128)	512	conv3_block3_1_conv[0][0]
conv3_block3_1_relu (Activation	(None,	28,	28,	128)	0	conv3_block3_1_bn[0][0]
conv3_block3_2_conv (Conv2D)	(None,	28,	28,	128)	147584	conv3_block3_1_relu[0][0]
conv3_block3_2_bn (BatchNormali	(None,	28,	28,	128)	512	conv3_block3_2_conv[0][0]
conv3_block3_2_relu (Activation	(None,	28,	28,	128)	0	conv3_block3_2_bn[0][0]
conv3_block3_3_conv (Conv2D)	(None,	28,	28,	512)	66048	conv3_block3_2_relu[0][0]
conv3_block3_3_bn (BatchNormali	(None,	28,	28,	512)	2048	conv3_block3_3_conv[0][0]
conv3_block3_add (Add)	(None,	28,	28,	512)	0	conv3_block2_out[0][0] conv3_block3_3_bn[0][0]
conv3_block3_out (Activation)	(None,	28,	28,	512)	0	conv3_block3_add[0][0]
conv3_block4_1_conv (Conv2D)	(None,	28,	28,	128)	65664	conv3_block3_out[0][0]
conv3_block4_1_bn (BatchNormali	(None,	28,	28,	128)	512	conv3_block4_1_conv[0][0]
conv3_block4_1_relu (Activation	(None,	28,	28,	128)	0	conv3_block4_1_bn[0][0]
conv3_block4_2_conv (Conv2D)	(None,	28,	28,	128)	147584	conv3_block4_1_relu[0][0]
conv3_block4_2_bn (BatchNormali	(None,	28,	28,	128)	512	conv3_block4_2_conv[0][0]
conv3_block4_2_relu (Activation	(None,	28,	28,	128)	0	conv3_block4_2_bn[0][0]
conv3_block4_3_conv (Conv2D)	(None,	28,	28,	512)	66048	conv3_block4_2_relu[0][0]
conv3_block4_3_bn (BatchNormali	(None,	28,	28,	512)	2048	conv3_block4_3_conv[0][0]
conv3_block4_add (Add)	(None,	28,	28,	512)	0	conv3_block3_out[0][0]
conv3_block4_out (Activation)	(None,	28,	28,	512)	0	conv3_block4_3_bn[0][0] conv3_block4_add[0][0]
conv4_block1_1_conv (Conv2D)	(None,	14,	14,	256)	131328	conv3_block4_out[0][0]
conv4_block1_1_bn (BatchNormali	(None,	14,	14,	256)	1024	conv4_block1_1_conv[0][0]
conv4_block1_1_relu (Activation					0	conv4_block1_1_bn[0][0]
conv4_block1_2_conv (Conv2D)	(None,				590080	conv4_block1_1_relu[0][0]
conv4_block1_2_bn (BatchNormali					1024	conv4_block1_2_conv[0][0]
	,,	,	,	,		

conv4_block1_2_relu (Activation	(None,	14,	14,	256)	0	conv4_block1_2_bn[0][0]
conv4_block1_0_conv (Conv2D)	(None,	14,	14,	1024)	525312	conv3_block4_out[0][0]
conv4_block1_3_conv (Conv2D)	(None,	14,	14,	1024)	263168	conv4_block1_2_relu[0][0]
conv4_block1_0_bn (BatchNormali	(None,	14,	14,	1024)	4096	conv4_block1_0_conv[0][0]
conv4_block1_3_bn (BatchNormali	(None,	14,	14,	1024)	4096	conv4_block1_3_conv[0][0]
conv4_block1_add (Add)	(None,	14,	14,	1024)	0	conv4_block1_0_bn[0][0] conv4_block1_3_bn[0][0]
conv4 block1 out (Activation)	(None,	14,	14.	1024)	0	conv4_block1_add[0][0]
conv4 block2 1 conv (Conv2D)	(None,				262400	conv4 block1 out[0][0]
conv4 block2 1 bn (BatchNormali					1024	conv4 block2 1 conv[0][0]
conv4_block2_1_relu (Activation					0	conv4_block2_1_bn[0][0]
conv4_block2_2_conv (Conv2D)	(None,				590080	conv4_block2_1_relu[0][0]
conv4_block2_2_bn (BatchNormali					1024	conv4_block2_2_conv[0][0]
conv4_block2_2_relu (Activation	(None,	14,	14,	256)	0	conv4_block2_2_bn[0][0]
conv4_block2_3_conv (Conv2D)	(None,	14,	14,	1024)	263168	conv4_block2_2_relu[0][0]
conv4_block2_3_bn (BatchNormali	(None,	14,	14,	1024)	4096	conv4_block2_3_conv[0][0]
conv4_block2_add (Add)	(None,	14,	14,	1024)	0	conv4_block1_out[0][0] conv4_block2_3_bn[0][0]
conv4_block2_out (Activation)	(None,	14,	14,	1024)	0	conv4_block2_add[0][0]
conv4_block3_1_conv (Conv2D)	(None,	14,	14,	256)	262400	conv4_block2_out[0][0]
conv4_block3_1_bn (BatchNormali	(None,	14,	14,	256)	1024	conv4_block3_1_conv[0][0]
conv4_block3_1_relu (Activation	(None,	14,	14,	256)	0	conv4_block3_1_bn[0][0]
conv4_block3_2_conv (Conv2D)	(None,	14,	14,	256)	590080	conv4_block3_1_relu[0][0]
conv4_block3_2_bn (BatchNormali	(None,	14,	14,	256)	1024	conv4_block3_2_conv[0][0]
conv4_block3_2_relu (Activation	(None,	14,	14,	256)	0	conv4_block3_2_bn[0][0]
conv4_block3_3_conv (Conv2D)	(None,	14,	14,	1024)	263168	conv4_block3_2_relu[0][0]
conv4_block3_3_bn (BatchNormali	(None,	14,	14,	1024)	4096	conv4_block3_3_conv[0][0]
conv4_block3_add (Add)	(None,	14,	14,	1024)	0	conv4 block2 out[0][0]
, ,	,			·		conv4_block3_3_bn[0][0]
conv4_block3_out (Activation)	(None,	14,	14,	1024)	0	conv4_block3_add[0][0]
conv4_block4_1_conv (Conv2D)	(None,	14,	14,	256)	262400	conv4_block3_out[0][0]
conv4_block4_1_bn (BatchNormali	(None,	14,	14,	256)	1024	conv4_block4_1_conv[0][0]
conv4_block4_1_relu (Activation	(None,	14,	14,	256)	0	conv4_block4_1_bn[0][0]
conv4_block4_2_conv (Conv2D)	(None,	14,	14,	256)	590080	conv4_block4_1_relu[0][0]
conv4_block4_2_bn (BatchNormali	(None,	14,	14,	256)	1024	conv4_block4_2_conv[0][0]
conv4_block4_2_relu (Activation	(None,	14,	14,	256)	0	conv4_block4_2_bn[0][0]
conv4_block4_3_conv (Conv2D)	(None,	14,	14,	1024)	263168	conv4_block4_2_relu[0][0]
conv4_block4_3_bn (BatchNormali	(None,	14,	14,	1024)	4096	conv4_block4_3_conv[0][0]
conv4_block4_add (Add)	(None,	14,	14,	1024)	0	conv4_block3_out[0][0]
						conv4_block4_3_bn[0][0]
conv4_block4_out (Activation)	(None,	14,	14,	1024)	0	conv4_block4_add[0][0]
conv4_block5_1_conv (Conv2D)	(None,	14,	14,	256)	262400	conv4_block4_out[0][0]
conv4_block5_1_bn (BatchNormali	(None,	14,	14,	256)	1024	conv4_block5_1_conv[0][0]
conv4_block5_1_relu (Activation	(None,	14,	14,	256)	0	conv4_block5_1_bn[0][0]
conv4_block5_2_conv (Conv2D)	(None,	14,	14,	256)	590080	conv4_block5_1_relu[0][0]
conv4_block5_2_bn (BatchNormali	(None,	14,	14,	256)	1024	conv4_block5_2_conv[0][0]
conv4_block5_2_relu (Activation	(None,	14,	14,	256)	0	conv4_block5_2_bn[0][0]

conv4_block5_3_conv (Conv2D)					263168	conv4_block5_2_relu[0][0]
conv4_block5_3_bn (BatchNormali						conv4_block5_3_conv[0][0]
conv4_block5_add (Add)	(None,	14,	14,	1024)	0	conv4_block4_out[0][0] conv4_block5_3_bn[0][0]
conv4_block5_out (Activation)	(None,	14,	14,	1024)	0	conv4_block5_add[0][0]
conv4_block6_1_conv (Conv2D)	(None,	14,	14,	256)	262400	conv4_block5_out[0][0]
conv4_block6_1_bn (BatchNormali	(None,	14,	14,	256)	1024	conv4_block6_1_conv[0][0]
conv4_block6_1_relu (Activation	(None,	14,	14,	256)	0	conv4_block6_1_bn[0][0]
conv4_block6_2_conv (Conv2D)	(None,	14,	14,	256)	590080	conv4_block6_1_relu[0][0]
conv4_block6_2_bn (BatchNormali	(None,	14,	14,	256)	1024	conv4_block6_2_conv[0][0]
conv4_block6_2_relu (Activation	(None,	14,	14,	256)	0	conv4_block6_2_bn[0][0]
conv4_block6_3_conv (Conv2D)	(None,	14,	14,	1024)	263168	conv4_block6_2_relu[0][0]
conv4_block6_3_bn (BatchNormali	(None,	14,	14,	1024)	4096	conv4_block6_3_conv[0][0]
conv4_block6_add (Add)	(None,	14,	14,	1024)	0	conv4_block5_out[0][0] conv4_block6_3_bn[0][0]
conv4_block6_out (Activation)	(None,	14,	14,	1024)	0	conv4_block6_add[0][0]
conv5_block1_1_conv (Conv2D)	(None,	7,	7, 5	12)	524800	conv4_block6_out[0][0]
conv5_block1_1_bn (BatchNormali	(None,	7,	7, 5	12)	2048	conv5_block1_1_conv[0][0]
conv5_block1_1_relu (Activation	(None,	7,	7, 5	12)	0	conv5_block1_1_bn[0][0]
conv5_block1_2_conv (Conv2D)	(None,	7,	7, 5	12)	2359808	conv5_block1_1_relu[0][0]
conv5_block1_2_bn (BatchNormali	(None,	7,	7, 5	12)	2048	conv5_block1_2_conv[0][0]
conv5_block1_2_relu (Activation	(None,	7,	7, 5	12)	0	conv5_block1_2_bn[0][0]
conv5_block1_0_conv (Conv2D)	(None,	7,	7, 2	048)	2099200	conv4_block6_out[0][0]
conv5 block1 3 conv (Conv2D)	(None,	7,	7, 2	048)	1050624	conv5_block1_2_relu[0][0]
conv5_block1_0_bn (BatchNormali	(None,	7,	7, 2	048)	8192	conv5_block1_0_conv[0][0]
conv5_block1_3_bn (BatchNormali					8192	conv5_block1_3_conv[0][0]
conv5_block1_add (Add)	(None,				0	conv5_block1_0_bn[0][0]
		.,				conv5_block1_3_bn[0][0]
conv5_block1_out (Activation)	(None,	7,	7, 2	048)	0	conv5_block1_add[0][0]
conv5_block2_1_conv (Conv2D)	(None,	7,	7, 5	12)	1049088	conv5_block1_out[0][0]
conv5_block2_1_bn (BatchNormali	(None,	7,	7, 5	12)	2048	conv5_block2_1_conv[0][0]
conv5_block2_1_relu (Activation	(None,	7,	7, 5	12)	0	conv5_block2_1_bn[0][0]
conv5_block2_2_conv (Conv2D)	(None,	7,	7, 5	12)	2359808	conv5_block2_1_relu[0][0]
conv5_block2_2_bn (BatchNormali	(None,	7,	7, 5	12)	2048	conv5_block2_2_conv[0][0]
conv5_block2_2_relu (Activation	(None,	7,	7, 5	12)	0	conv5_block2_2_bn[0][0]
conv5_block2_3_conv (Conv2D)	(None,	7,	7, 2	048)	1050624	conv5_block2_2_relu[0][0]
conv5_block2_3_bn (BatchNormali	(None,	7,	7, 2	048)	8192	conv5_block2_3_conv[0][0]
conv5_block2_add (Add)	(None,	7,	7, 2	048)	0	conv5_block1_out[0][0] conv5_block2_3_bn[0][0]
conv5_block2_out (Activation)	(None,	7,	7, 2	048)	0	conv5_block2_add[0][0]
conv5_block3_1_conv (Conv2D)	(None,	7,	7, 5	12)	1049088	conv5_block2_out[0][0]
conv5_block3_1_bn (BatchNormali	(None,	7,	7, 5	12)	2048	conv5_block3_1_conv[0][0]
conv5_block3_1_relu (Activation	(None,	7,	7, 5	12)	0	conv5_block3_1_bn[0][0]
conv5_block3_2_conv (Conv2D)	(None,	7,	7, 5	12)	2359808	conv5_block3_1_relu[0][0]
conv5_block3_2_bn (BatchNormali	(None,	7,	7, 5	12)	2048	conv5_block3_2_conv[0][0]
conv5_block3_2_relu (Activation	(None,	7,	7, 5	12)	0	conv5_block3_2_bn[0][0]
conv5_block3_3_conv (Conv2D)	(None,	7,	7, 2	048)	1050624	conv5_block3_2_relu[0][0]
conv5_block3_3_bn (BatchNormali	(None,	7,	7, 2	048)	8192	conv5_block3_3_conv[0][0]

conv5_block3_add (Add)	(None, 7,	7, 2048)	0	conv5_block2_out[0][0] conv5_block3_3_bn[0][0]
conv5_block3_out (Activation)	(None, 7,	7, 2048)	0	conv5_block3_add[0][0]
avg_pool (GlobalAveragePooling2	(None, 20	48)	0	conv5_block3_out[0][0]
predictions (Dense)	(None, 10	00)	2049000	avg_pool[0][0]
Total params: 25,636,712 Trainable params: 25,583,592 Non-trainable params: 53,120				
Model: "functional_1"				
ayer (type)	Output Sh	ape =======	Param #	Connected to
input_1 (InputLayer)	[(None, 2	24, 224, 3)	0	
conv1_pad (ZeroPadding2D)	(None, 23	0, 230, 3)	0	input_1[0][0]
conv1_conv (Conv2D)	(None, 11	2, 112, 64)	9472	conv1_pad[0][0]
conv1_bn (BatchNormalization)	(None, 11	2, 112, 64)	256	conv1_conv[0][0]
conv1_relu (Activation)	(None, 11	2, 112, 64)	0	conv1_bn[0][0]
oool1_pad (ZeroPadding2D)	(None, 11	4, 114, 64)	0	conv1_relu[0][0]
pool1_pool (MaxPooling2D)	(None, 56	, 56, 64)	0	pool1_pad[0][0]
conv2_block1_1_conv (Conv2D)	(None, 56	, 56, 64)	4160	pool1_pool[0][0]
conv2_block1_1_bn (BatchNormali	(None, 56	, 56, 64)	256	conv2_block1_1_conv[0][0]
conv2_block1_1_relu (Activation	(None, 56	, 56, 64)	0	conv2_block1_1_bn[0][0]
conv2_block1_2_conv (Conv2D)	(None, 56	, 56, 64)	36928	conv2_block1_1_relu[0][0]
conv2_block1_2_bn (BatchNormali	(None, 56	, 56, 64)	256	conv2_block1_2_conv[0][0]
conv2_block1_2_relu (Activation	(None, 56	, 56, 64)	0	conv2_block1_2_bn[0][0]
conv2_block1_0_conv (Conv2D)	(None, 56	, 56, 256)	16640	pool1_pool[0][0]
conv2_block1_3_conv (Conv2D)	(None, 56	, 56, 256)	16640	conv2_block1_2_relu[0][0]
conv2_block1_0_bn (BatchNormali	(None, 56	, 56, 256)	1024	conv2_block1_0_conv[0][0]
conv2_block1_3_bn (BatchNormali	(None, 56	, 56, 256)	1024	conv2_block1_3_conv[0][0]
conv2_block1_add (Add)	(None, 56	, 56, 256)	0	conv2_block1_0_bn[0][0] conv2_block1_3_bn[0][0]
conv2_block1_out (Activation)	(None, 56	, 56, 256)	0	conv2_block1_add[0][0]
conv2_block2_1_conv (Conv2D)	(None, 56	, 56, 64)	16448	conv2_block1_out[0][0]
conv2_block2_1_bn (BatchNormali	(None, 56	, 56, 64)	256	conv2_block2_1_conv[0][0]
conv2_block2_1_relu (Activation	(None, 56	, 56, 64)	0	conv2_block2_1_bn[0][0]
conv2_block2_2_conv (Conv2D)	(None, 56	, 56, 64)	36928	conv2_block2_1_relu[0][0]
conv2_block2_2_bn (BatchNormali	(None, 56	, 56, 64)	256	conv2_block2_2_conv[0][0]
conv2_block2_2_relu (Activation	(None, 56	, 56, 64)	0	conv2_block2_2_bn[0][0]
conv2_block2_3_conv (Conv2D)	(None, 56	, 56, 256)	16640	conv2_block2_2_relu[0][0]
conv2_block2_3_bn (BatchNormali	(None, 56	, 56, 256)	1024	conv2_block2_3_conv[0][0]
conv2_block2_add (Add)	(None, 56	, 56, 256)	0	conv2_block1_out[0][0] conv2_block2_3_bn[0][0]
conv2_block2_out (Activation)	(None, 56	, 56, 256)	0	conv2_block2_add[0][0]
conv2_block3_1_conv (Conv2D)	(None, 56	, 56, 64)	16448	conv2_block2_out[0][0]
conv2_block3_1_bn (BatchNormali	(None, 56	, 56, 64)	256	conv2_block3_1_conv[0][0]
conv2_block3_1_relu (Activation	(None, 56	, 56, 64)	0	conv2_block3_1_bn[0][0]
conv2_block3_2_conv (Conv2D)	(None, 56	, 56, 64)	36928	conv2_block3_1_relu[0][0]
conv2_block3_2_bn (BatchNormali	(None, 56	, 56, 64)	256	conv2_block3_2_conv[0][0]
conv2_block3_2_relu (Activation	(None, 56	, 56, 64)	0	conv2_block3_2_bn[0][0]
conv2 block3 3 conv (Conv2D)	(Nono 56	56 256)	16640	conv2 block3 2 polu[8][8]

(None, 56, 56, 256) 16640

conv2_block3_2_relu[0][0]

conv2_block3_3_conv (Conv2D)

conv2_block3_3_bn (BatchNormali	(None,	56,	56,	256)	1024	conv2_block3_3_conv[0][0]
conv2_block3_add (Add)	(None,	56,	56,	256)	0	conv2_block2_out[0][0] conv2_block3_3_bn[0][0]
conv2_block3_out (Activation)	(None,	56,	56,	256)	0	conv2_block3_add[0][0]
conv3_block1_1_conv (Conv2D)	(None,	28,	28,	128)	32896	conv2_block3_out[0][0]
conv3_block1_1_bn (BatchNormali	(None,	28,	28,	128)	512	conv3_block1_1_conv[0][0]
conv3_block1_1_relu (Activation	(None,	28,	28,	128)	0	conv3_block1_1_bn[0][0]
conv3_block1_2_conv (Conv2D)	(None,	28,	28,	128)	147584	conv3_block1_1_relu[0][0]
conv3_block1_2_bn (BatchNormali	(None,	28,	28,	128)	512	conv3_block1_2_conv[0][0]
conv3_block1_2_relu (Activation	(None,	28,	28,	128)	0	conv3_block1_2_bn[0][0]
conv3_block1_0_conv (Conv2D)	(None,	28,	28,	512)	131584	conv2_block3_out[0][0]
conv3_block1_3_conv (Conv2D)	(None,	28,	28,	512)	66048	conv3_block1_2_relu[0][0]
conv3_block1_0_bn (BatchNormali	(None,	28,	28,	512)	2048	conv3_block1_0_conv[0][0]
conv3_block1_3_bn (BatchNormali	(None,	28,	28,	512)	2048	conv3_block1_3_conv[0][0]
conv3_block1_add (Add)	(None,	28,	28,	512)	0	conv3_block1_0_bn[0][0] conv3_block1_3_bn[0][0]
conv3_block1_out (Activation)	(None,	28,	28,	512)	0	conv3_block1_add[0][0]
conv3_block2_1_conv (Conv2D)	(None,	28,	28,	128)	65664	conv3_block1_out[0][0]
conv3_block2_1_bn (BatchNormali	(None,	28,	28,	128)	512	conv3_block2_1_conv[0][0]
conv3_block2_1_relu (Activation	(None,	28,	28,	128)	0	conv3_block2_1_bn[0][0]
conv3_block2_2_conv (Conv2D)	(None,	28,	28,	128)	147584	conv3_block2_1_relu[0][0]
conv3_block2_2_bn (BatchNormali	(None,	28,	28,	128)	512	conv3_block2_2_conv[0][0]
conv3_block2_2_relu (Activation	(None,	28,	28,	128)	0	conv3_block2_2_bn[0][0]
conv3_block2_3_conv (Conv2D)	(None,	28,	28,	512)	66048	conv3_block2_2_relu[0][0]
conv3_block2_3_bn (BatchNormali	(None,	28,	28,	512)	2048	conv3_block2_3_conv[0][0]
conv3_block2_add (Add)	(None,	28,	28,	512)	0	conv3_block1_out[0][0]
						conv3_block2_3_bn[0][0]
conv3_block2_out (Activation)	(None,				0	conv3_block2_add[0][0]
conv3_block3_1_conv (Conv2D)	(None,	28,	28,	128)	65664	conv3_block2_out[0][0]
conv3_block3_1_bn (BatchNormali	(None,	28,	28,	128)	512	conv3_block3_1_conv[0][0]
conv3_block3_1_relu (Activation	(None,	28,	28,	128)	0	conv3_block3_1_bn[0][0]
conv3_block3_2_conv (Conv2D)	(None,	28,	28,	128)	147584	conv3_block3_1_relu[0][0]
conv3_block3_2_bn (BatchNormali	(None,	28,	28,	128)	512	conv3_block3_2_conv[0][0]
conv3_block3_2_relu (Activation	(None,	28,	28,	128)	0	conv3_block3_2_bn[0][0]
conv3_block3_3_conv (Conv2D)	(None,	28,	28,	512)	66048	conv3_block3_2_relu[0][0]
conv3_block3_3_bn (BatchNormali	(None,	28,	28,	512)	2048	conv3_block3_3_conv[0][0]
conv3_block3_add (Add)	(None,	28,	28,	512)	0	conv3_block2_out[0][0] conv3_block3_3_bn[0][0]
conv3_block3_out (Activation)	(None,	28,	28,	512)	0	conv3_block3_add[0][0]
conv3_block4_1_conv (Conv2D)	(None,	28,	28,	128)	65664	conv3_block3_out[0][0]
conv3_block4_1_bn (BatchNormali	(None,	28,	28,	128)	512	conv3_block4_1_conv[0][0]
conv3_block4_1_relu (Activation	(None,	28,	28,	128)	0	conv3_block4_1_bn[0][0]
conv3_block4_2_conv (Conv2D)	(None,	28,	28,	128)	147584	conv3_block4_1_relu[0][0]
conv3_block4_2_bn (BatchNormali	(None,	28,	28,	128)	512	conv3_block4_2_conv[0][0]
conv3_block4_2_relu (Activation	(None,	28,	28,	128)	0	conv3_block4_2_bn[0][0]
conv3_block4_3_conv (Conv2D)	(None,	28,	28,	512)	66048	conv3_block4_2_relu[0][0]
conv3_block4_3_bn (BatchNormali	(None,	28,	28,	512)	2048	conv3_block4_3_conv[0][0]

conv3_block4_add (Add)	(None,	28,	28,	512)	0	conv3_block3_out[0][0] conv3_block4_3_bn[0][0]
conv3_block4_out (Activation)	(None,	28,	28,	512)	0	conv3_block4_add[0][0]
conv4_block1_1_conv (Conv2D)	(None,	14,	14,	256)	131328	conv3_block4_out[0][0]
conv4_block1_1_bn (BatchNormali	(None,	14,	14,	256)	1024	conv4_block1_1_conv[0][0]
conv4_block1_1_relu (Activation	(None,	14,	14,	256)	0	conv4_block1_1_bn[0][0]
conv4_block1_2_conv (Conv2D)	(None,	14,	14,	256)	590080	conv4_block1_1_relu[0][0]
conv4_block1_2_bn (BatchNormali	(None,	14,	14,	256)	1024	conv4_block1_2_conv[0][0]
conv4_block1_2_relu (Activation	(None,	14,	14,	256)	0	conv4_block1_2_bn[0][0]
conv4_block1_0_conv (Conv2D)	(None,	14,	14,	1024)	525312	conv3_block4_out[0][0]
conv4_block1_3_conv (Conv2D)	(None,	14,	14,	1024)	263168	conv4_block1_2_relu[0][0]
conv4_block1_0_bn (BatchNormali	(None,	14,	14,	1024)	4096	conv4_block1_0_conv[0][0]
conv4_block1_3_bn (BatchNormali	(None,	14,	14,	1024)	4096	conv4_block1_3_conv[0][0]
conv4_block1_add (Add)	(None,	14,	14,	1024)	0	conv4_block1_0_bn[0][0] conv4_block1_3_bn[0][0]
conv4_block1_out (Activation)	(None,	14,	14,	1024)	0	conv4_block1_add[0][0]
conv4_block2_1_conv (Conv2D)	(None,	14,	14,	256)	262400	conv4_block1_out[0][0]
conv4_block2_1_bn (BatchNormali	(None,	14,	14,	256)	1024	conv4_block2_1_conv[0][0]
conv4_block2_1_relu (Activation	(None,	14,	14,	256)	0	conv4_block2_1_bn[0][0]
conv4_block2_2_conv (Conv2D)	(None,	14,	14,	256)	590080	conv4_block2_1_relu[0][0]
conv4_block2_2_bn (BatchNormali	(None,	14,	14,	256)	1024	conv4_block2_2_conv[0][0]
conv4_block2_2_relu (Activation	(None,	14,	14,	256)	0	conv4_block2_2_bn[0][0]
conv4_block2_3_conv (Conv2D)	(None,	14,	14,	1024)	263168	conv4_block2_2_relu[0][0]
conv4_block2_3_bn (BatchNormali	(None,	14,	14,	1024)	4096	conv4_block2_3_conv[0][0]
conv4_block2_add (Add)	(None,	14,	14,	1024)	0	conv4_block1_out[0][0] conv4_block2_3_bn[0][0]
conv4_block2_out (Activation)	(None,	14,	14,	1024)	0	conv4_block2_add[0][0]
conv4_block3_1_conv (Conv2D)	(None,	14,	14,	256)	262400	conv4_block2_out[0][0]
conv4_block3_1_bn (BatchNormali	(None,	14,	14,	256)	1024	conv4_block3_1_conv[0][0]
conv4_block3_1_relu (Activation	(None,	14,	14,	256)	0	conv4_block3_1_bn[0][0]
conv4_block3_2_conv (Conv2D)	(None,	14,	14,	256)	590080	conv4_block3_1_relu[0][0]
conv4_block3_2_bn (BatchNormali	(None,	14,	14,	256)	1024	conv4_block3_2_conv[0][0]
conv4_block3_2_relu (Activation	(None,	14,	14,	256)	0	conv4_block3_2_bn[0][0]
conv4_block3_3_conv (Conv2D)	(None,	14,	14,	1024)	263168	conv4_block3_2_relu[0][0]
conv4_block3_3_bn (BatchNormali	(None,	14,	14,	1024)	4096	conv4_block3_3_conv[0][0]
conv4_block3_add (Add)	(None,	14,	14,	1024)	0	conv4_block2_out[0][0] conv4_block3_3_bn[0][0]
conv4_block3_out (Activation)	(None,	14,	14,	1024)	0	conv4_block3_add[0][0]
conv4_block4_1_conv (Conv2D)	(None,	14,	14,	256)	262400	conv4_block3_out[0][0]
conv4_block4_1_bn (BatchNormali	(None,	14,	14,	256)	1024	conv4_block4_1_conv[0][0]
conv4_block4_1_relu (Activation	(None,	14,	14,	256)	0	conv4_block4_1_bn[0][0]
conv4_block4_2_conv (Conv2D)	(None,	14,	14,	256)	590080	conv4_block4_1_relu[0][0]
conv4_block4_2_bn (BatchNormali	(None,	14,	14,	256)	1024	conv4_block4_2_conv[0][0]
conv4_block4_2_relu (Activation	(None,	14,	14,	256)	0	conv4_block4_2_bn[0][0]
conv4_block4_3_conv (Conv2D)	(None,	14,	14,	1024)	263168	conv4_block4_2_relu[0][0]
conv4_block4_3_bn (BatchNormali	(None,	14,	14,	1024)	4096	conv4_block4_3_conv[0][0]
conv4_block4_add (Add)	(None,	14,	14,	1024)	0	conv4_block3_out[0][0] conv4_block4_3_bn[0][0]

conv4_block4_out (Activation)	(None,	14.	14.	1024)	0	conv4_block4_add[0][0]
conv4_block5_1_conv (Conv2D)	(None,				262400	conv4_block4_out[0][0]
conv4_block5_1_bn (BatchNormali					1024	conv4_block5_1_conv[0][0]
conv4_block5_1_relu (Activation	(None,	14,	14,	256)	0	conv4_block5_1_bn[0][0]
conv4_block5_2_conv (Conv2D)	(None,	14,	14,	256)	590080	conv4_block5_1_relu[0][0]
conv4_block5_2_bn (BatchNormali	(None,	14,	14,	256)	1024	conv4_block5_2_conv[0][0]
conv4_block5_2_relu (Activation	(None,	14,	14,	256)	0	conv4_block5_2_bn[0][0]
conv4_block5_3_conv (Conv2D)	(None,	14,	14,	1024)	263168	conv4_block5_2_relu[0][0]
conv4_block5_3_bn (BatchNormali	(None,	14,	14,	1024)	4096	conv4_block5_3_conv[0][0]
conv4_block5_add (Add)	(None,	14,	14,	1024)	0	conv4_block4_out[0][0]
						conv4_block5_3_bn[0][0]
conv4_block5_out (Activation)	(None,					conv4_block5_add[0][0]
conv4_block6_1_conv (Conv2D)	(None,	14,	14,	256)	262400	conv4_block5_out[0][0]
conv4_block6_1_bn (BatchNormali	(None,	14,	14,	256)	1024	conv4_block6_1_conv[0][0]
conv4_block6_1_relu (Activation	(None,	14,	14,	256)	0	conv4_block6_1_bn[0][0]
conv4_block6_2_conv (Conv2D)	(None,	14,	14,	256)	590080	conv4_block6_1_relu[0][0]
conv4_block6_2_bn (BatchNormali	(None,	14,	14,	256)	1024	conv4_block6_2_conv[0][0]
conv4_block6_2_relu (Activation	(None,	14,	14,	256)	0	conv4_block6_2_bn[0][0]
conv4_block6_3_conv (Conv2D)	(None,	14,	14,	1024)	263168	conv4_block6_2_relu[0][0]
conv4_block6_3_bn (BatchNormali	(None,	14,	14,	1024)	4096	conv4_block6_3_conv[0][0]
conv4_block6_add (Add)	(None,	14,	14,	1024)	0	conv4_block5_out[0][0] conv4_block6_3_bn[0][0]
conv4_block6_out (Activation)	(None,	14,	14,	1024)	0	conv4_block6_add[0][0]
conv5_block1_1_conv (Conv2D)	(None,	7,	7, 5:	12)	524800	conv4_block6_out[0][0]
conv5_block1_1_bn (BatchNormali	(None,	7,	7, 5:	12)	2048	conv5_block1_1_conv[0][0]
conv5_block1_1_relu (Activation	(None,	7,	7, 5:	12)	0	conv5_block1_1_bn[0][0]
conv5_block1_2_conv (Conv2D)	(None,	7,	7, 5:	12)	2359808	conv5_block1_1_relu[0][0]
conv5_block1_2_bn (BatchNormali	(None,	7,	7, 5:	12)	2048	conv5_block1_2_conv[0][0]
conv5_block1_2_relu (Activation	(None,	7,	7, 5	12)	0	conv5_block1_2_bn[0][0]
conv5_block1_0_conv (Conv2D)	(None,	7,	7, 20	948)	2099200	conv4_block6_out[0][0]
conv5_block1_3_conv (Conv2D)	(None,	7,	7, 20	948)	1050624	conv5_block1_2_relu[0][0]
conv5_block1_0_bn (BatchNormali	(None,	7,	7, 20	948)	8192	conv5_block1_0_conv[0][0]
conv5_block1_3_bn (BatchNormali	(None,	7,	7, 20	948)	8192	conv5_block1_3_conv[0][0]
conv5_block1_add (Add)	(None,	7,	7, 20	948)	0	conv5_block1_0_bn[0][0] conv5_block1_3_bn[0][0]
conv5_block1_out (Activation)	(None,	7,	7, 20	948)	0	conv5_block1_add[0][0]
conv5_block2_1_conv (Conv2D)	(None,	7,	7, 5	12)	1049088	conv5_block1_out[0][0]
conv5_block2_1_bn (BatchNormali	(None,	7,	7, 5	12)	2048	conv5_block2_1_conv[0][0]
conv5_block2_1_relu (Activation	(None,	7,	7, 5:	12)	0	conv5_block2_1_bn[0][0]
conv5_block2_2_conv (Conv2D)	(None,	7,	7, 5:	12)	2359808	conv5_block2_1_relu[0][0]
conv5_block2_2_bn (BatchNormali	(None,	7,	7, 5:	12)	2048	conv5_block2_2_conv[0][0]
conv5_block2_2_relu (Activation	(None,	7,	7, 5:	12)	0	conv5_block2_2_bn[0][0]
conv5_block2_3_conv (Conv2D)	(None,	7,	7, 20	948)	1050624	conv5_block2_2_relu[0][0]
conv5_block2_3_bn (BatchNormali	(None,	7,	7, 20	948)	8192	conv5_block2_3_conv[0][0]
conv5_block2_add (Add)	(None,				0	conv5_block1_out[0][0]
samut block? out /A-timeti	/Na:		7 2	240\	0	conv5_block2_3_bn[0][0]
conv5_block2_out (Activation)	(None,				1040088	conv5_block2_add[0][0]
conv5_block3_1_conv (Conv2D)	(None,	7,	/, 53	12)	1049088	conv5_block2_out[0][0]

conv5_block3_1_bn (BatchNormali	(None,	7, 7	, 512)	2048	conv5_block3_1_conv[0][0]
conv5_block3_1_relu (Activation	(None,	7, 7	, 512)	0	conv5_block3_1_bn[0][0]
conv5_block3_2_conv (Conv2D)	(None,	7, 7	, 512)	2359808	conv5_block3_1_relu[0][0]
conv5_block3_2_bn (BatchNormali	(None,	7, 7	, 512)	2048	conv5_block3_2_conv[0][0]
conv5_block3_2_relu (Activation	(None,	7, 7	, 512)	0	conv5_block3_2_bn[0][0]
conv5_block3_3_conv (Conv2D)	(None,	7, 7	, 2048)	1050624	conv5_block3_2_relu[0][0]
conv5_block3_3_bn (BatchNormali	(None,	7, 7	, 2048)	8192	conv5_block3_3_conv[0][0]
conv5_block3_add (Add)	(None,	7, 7	, 2048)	0	conv5_block2_out[0][0] conv5_block3_3_bn[0][0]
conv5_block3_out (Activation)	(None,	7, 7	, 2048)	0	conv5_block3_add[0][0]
avg_pool (GlobalAveragePooling2	(None,	2048)	0	conv5_block3_out[0][0]
flatten (Flatten)	(None,	2048)	0	avg_pool[0][0]
output_layer (Dense)	(None,	2)		4098	flatten[0][0]

Total params: 23,591,810 Trainable params: 23,538,690 Non-trainable params: 53,120

Out[12]: True

In [13]: custom_resnet_model.compile(loss='categorical_crossentropy',optimizer='adam',metrics=['accuracy'])

```
In [14]: t=time.time()
    hist = custom_resnet_model.fit(X_train, y_train, batch_size=32, epochs=num_epoch, verbose=1, validation_data=(X_test, y_test))
    print('Training time: %s' % (t - time.time()))
    (loss, accuracy) = custom_resnet_model.evaluate(X_test, y_test, batch_size=10, verbose=1)
    print("[INFO] loss={:.4f}, accuracy: {:.4f}%".format(loss,accuracy * 100))
```

```
Epoch 1/100
Epoch 2/100
147/147 [===
                 :=======] - 10s 65ms/step - loss: 0.1197 - accuracy: 0.9554 - val loss: 0.0955 - val accuracy: 0.9676
Epoch 3/100
147/147 [====
             =========] - 10s 65ms/step - loss: 0.0949 - accuracy: 0.9661 - val_loss: 0.1064 - val_accuracy: 0.9582
Epoch 4/100
147/147 [===
            =========== ] - 10s 65ms/step - loss: 0.0924 - accuracy: 0.9654 - val loss: 0.0828 - val accuracy: 0.9718
Epoch 5/100
147/147 [===
             ===========] - 10s 65ms/step - loss: 0.0836 - accuracy: 0.9686 - val loss: 0.0833 - val accuracy: 0.9753
Epoch 6/100
147/147 [===
             Epoch 7/100
147/147 [====
             =========] - 10s 65ms/step - loss: 0.0727 - accuracy: 0.9757 - val_loss: 0.0867 - val_accuracy: 0.9744
Fnoch 8/100
147/147 [====
             Enoch 9/100
147/147 [===
               :=========] - 10s 65ms/step - loss: 0.0622 - accuracy: 0.9782 - val_loss: 0.0788 - val_accuracy: 0.9727
Epoch 10/100
147/147 [======
          Epoch 11/100
147/147 [====
             =============== ] - 10s 65ms/step - loss: 0.0532 - accuracy: 0.9827 - val_loss: 0.0738 - val_accuracy: 0.9753
Epoch 12/100
147/147 [====
              :========] - 10s 65ms/step - loss: 0.0503 - accuracy: 0.9821 - val_loss: 0.0948 - val_accuracy: 0.9710
Epoch 13/100
147/147 [====
              :=========] - 10s 65ms/step - loss: 0.0492 - accuracy: 0.9819 - val_loss: 0.0755 - val_accuracy: 0.9753
Epoch 14/100
147/147 [====
                 :=======] - 10s 65ms/step - loss: 0.0486 - accuracy: 0.9836 - val loss: 0.0798 - val accuracy: 0.9770
Epoch 15/100
147/147 [====
             Epoch 16/100
147/147 [====
              :=========] - 10s 65ms/step - loss: 0.0418 - accuracy: 0.9861 - val_loss: 0.0794 - val_accuracy: 0.9744
Epoch 17/100
147/147 [====
              ==========] - 10s 65ms/step - loss: 0.0412 - accuracy: 0.9878 - val_loss: 0.0813 - val_accuracy: 0.9744
Epoch 18/100
147/147 [====
            Epoch 19/100
147/147 [=====
            Epoch 20/100
147/147 [==========] - 10s 65ms/step - loss: 0.0358 - accuracy: 0.9883 - val loss: 0.0855 - val accuracy: 0.9684
Epoch 21/100
Fnoch 22/100
Epoch 23/100
Epoch 24/100
147/147 [====
             ==============] - 10s 65ms/step - loss: 0.0286 - accuracy: 0.9921 - val_loss: 0.0750 - val_accuracy: 0.9770
Epoch 25/100
147/147 [====
                 ========] - 10s 65ms/step - loss: 0.0283 - accuracy: 0.9912 - val_loss: 0.0749 - val_accuracy: 0.9787
Epoch 26/100
147/147 [====
                     =====] - 10s 65ms/step - loss: 0.0277 - accuracy: 0.9923 - val_loss: 0.0863 - val_accuracy: 0.9727
Epoch 27/100
147/147 [=====
                ========] - 10s 65ms/step - loss: 0.0267 - accuracy: 0.9927 - val_loss: 0.0818 - val_accuracy: 0.9727
Epoch 28/100
147/147 [====
             ================ ] - 10s 66ms/step - loss: 0.0250 - accuracy: 0.9940 - val_loss: 0.0814 - val_accuracy: 0.9735
Epoch 29/100
147/147 [====
                =========] - 10s 66ms/step - loss: 0.0243 - accuracy: 0.9936 - val_loss: 0.0795 - val_accuracy: 0.9753
Epoch 30/100
Epoch 31/100
147/147 [====
             Epoch 32/100
Enoch 33/100
147/147 [====
             Epoch 34/100
Epoch 35/100
147/147 [====
                 :========] - 10s 65ms/step - loss: 0.0182 - accuracy: 0.9959 - val_loss: 0.0821 - val_accuracy: 0.9753
Epoch 36/100
147/147 [=====
            ==========] - 10s 66ms/step - loss: 0.0179 - accuracy: 0.9966 - val_loss: 0.0887 - val_accuracy: 0.9735
Epoch 37/100
147/147 [=====
            Epoch 38/100
147/147 [===
                   :=======] - 10s 65ms/step - loss: 0.0165 - accuracy: 0.9968 - val_loss: 0.0872 - val_accuracy: 0.9735
Epoch 39/100
147/147 [====
              ========] - 10s 65ms/step - loss: 0.0150 - accuracy: 0.9981 - val_loss: 0.0834 - val_accuracy: 0.9753
Epoch 40/100
147/147 [====
                  =======] - 10s 65ms/step - loss: 0.0180 - accuracy: 0.9944 - val_loss: 0.0843 - val_accuracy: 0.9761
Epoch 41/100
147/147 [====
             ==========] - 10s 66ms/step - loss: 0.0170 - accuracy: 0.9962 - val_loss: 0.0986 - val_accuracy: 0.9735
Epoch 42/100
147/147 [====
                ========] - 10s 66ms/step - loss: 0.0151 - accuracy: 0.9972 - val_loss: 0.0936 - val_accuracy: 0.9735
Epoch 43/100
147/147 [====
          Epoch 44/100
147/147 [====
                =========] - 10s 65ms/step - loss: 0.0127 - accuracy: 0.9983 - val loss: 0.1224 - val accuracy: 0.9684
Epoch 45/100
             147/147 [====
```

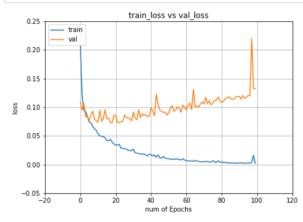
Epoch 46/100

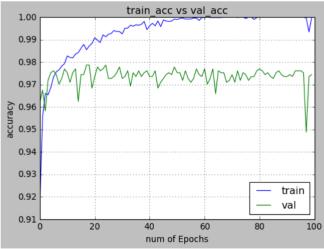
```
147/147 [=========] - 10s 66ms/step - loss: 0.0117 - accuracy: 0.9987 - val loss: 0.0952 - val accuracy: 0.9727
Epoch 47/100
147/147 [====
               =======] - 10s 66ms/step - loss: 0.0111 - accuracy: 0.9983 - val_loss: 0.0926 - val_accuracy: 0.9744
Epoch 48/100
147/147 [====
            :=========] - 10s 65ms/step - loss: 0.0141 - accuracy: 0.9981 - val_loss: 0.0909 - val_accuracy: 0.9753
Epoch 49/100
147/147 [============] - 10s 65ms/step - loss: 0.0113 - accuracy: 0.9983 - val_loss: 0.0916 - val_accuracy: 0.9744
Epoch 50/100
147/147 [====
            Epoch 51/100
147/147 [=====
           Epoch 52/100
147/147 [====
           ==========] - 10s 66ms/step - loss: 0.0094 - accuracy: 0.9994 - val_loss: 0.0990 - val_accuracy: 0.9753
Epoch 53/100
147/147 [====
           ==========] - 10s 65ms/step - loss: 0.0090 - accuracy: 0.9996 - val_loss: 0.1023 - val_accuracy: 0.9718
Epoch 54/100
Epoch 55/100
147/147 [=====
           Epoch 56/100
147/147 [====
           Epoch 57/100
147/147 [======
         Fnoch 58/100
Epoch 59/100
147/147 [====
          Epoch 60/100
147/147 [====
           ==========] - 10s 65ms/step - loss: 0.0077 - accuracy: 0.9998 - val_loss: 0.1002 - val_accuracy: 0.9735
Epoch 61/100
147/147 [====
              :========] - 10s 65ms/step - loss: 0.0068 - accuracy: 0.9998 - val_loss: 0.0951 - val_accuracy: 0.9770
Epoch 62/100
147/147 [====
            :========] - 10s 66ms/step - loss: 0.0062 - accuracy: 1.0000 - val_loss: 0.1036 - val_accuracy: 0.9701
Epoch 63/100
147/147 [====
            :========] - 10s 65ms/step - loss: 0.0062 - accuracy: 0.9998 - val_loss: 0.1074 - val_accuracy: 0.9727
Epoch 64/100
147/147 [====
             ========] - 10s 66ms/step - loss: 0.0060 - accuracy: 0.9998 - val_loss: 0.0957 - val_accuracy: 0.9770
Epoch 65/100
147/147 [====
            :===========] - 10s 66ms/step - loss: 0.0057 - accuracy: 0.9998 - val_loss: 0.1313 - val_accuracy: 0.9659
Epoch 66/100
Epoch 67/100
147/147 [====
           Epoch 68/100
Epoch 69/100
147/147 [=====
         Epoch 70/100
Enoch 71/100
147/147 [====
           ==========] - 10s 65ms/step - loss: 0.0047 - accuracy: 1.0000 - val_loss: 0.1058 - val_accuracy: 0.9744
Epoch 72/100
147/147 [======
           Epoch 73/100
Epoch 74/100
147/147 [====
              =========] - 10s 65ms/step - loss: 0.0043 - accuracy: 1.0000 - val_loss: 0.1115 - val_accuracy: 0.9718
Epoch 75/100
147/147 [=====
           Epoch 76/100
147/147 [====
              =======] - 10s 65ms/step - loss: 0.0065 - accuracy: 0.9994 - val_loss: 0.1071 - val_accuracy: 0.9744
Epoch 77/100
Epoch 78/100
147/147 [====
           ==========] - 10s 65ms/step - loss: 0.0037 - accuracy: 1.0000 - val_loss: 0.1121 - val_accuracy: 0.9735
Epoch 79/100
Epoch 80/100
147/147 [=====
          Epoch 81/100
147/147 [====
            =========] - 10s 65ms/step - loss: 0.0043 - accuracy: 1.0000 - val_loss: 0.1083 - val_accuracy: 0.9770
Epoch 82/100
Fnoch 83/100
147/147 [====
           ==========] - 10s 65ms/step - loss: 0.0036 - accuracy: 1.0000 - val_loss: 0.1150 - val_accuracy: 0.9744
Fnoch 84/100
147/147 [=====
          Epoch 85/100
147/147 [===
                =======] - 10s 66ms/step - loss: 0.0026 - accuracy: 1.0000 - val_loss: 0.1183 - val_accuracy: 0.9735
Epoch 86/100
147/147 [====
              :========] - 10s 65ms/step - loss: 0.0028 - accuracy: 1.0000 - val_loss: 0.1158 - val_accuracy: 0.9727
Epoch 87/100
147/147 [===
                  ====] - 10s 66ms/step - loss: 0.0027 - accuracy: 1.0000 - val_loss: 0.1133 - val_accuracy: 0.9753
Epoch 88/100
147/147 [===
                   ===] - 10s 66ms/step - loss: 0.0025 - accuracy: 1.0000 - val_loss: 0.1141 - val_accuracy: 0.9761
Epoch 89/100
147/147 [====
           =========] - 10s 65ms/step - loss: 0.0024 - accuracy: 1.0000 - val_loss: 0.1178 - val_accuracy: 0.9744
Epoch 90/100
147/147 [====
           Epoch 91/100
```

```
Enoch 92/100
                       ========] - 10s 65ms/step - loss: 0.0029 - accuracy: 1.0000 - val loss: 0.1139 - val accuracy: 0.9744
      147/147 [====
      Epoch 93/100
                    ==========] - 10s 66ms/step - loss: 0.0026 - accuracy: 1.0000 - val_loss: 0.1202 - val_accuracy: 0.9735
      147/147 [====
      Epoch 94/100
      147/147 [===
                                  10s 66ms/step - loss: 0.0022 - accuracy: 1.0000 - val_loss: 0.1155 - val_accuracy: 0.9761
      Epoch 95/100
      147/147 [====
                       ========] - 10s 66ms/step - loss: 0.0022 - accuracy: 1.0000 - val_loss: 0.1174 - val_accuracy: 0.9761
      Epoch 96/100
      147/147 [===
                                 - 10s 66ms/step - loss: 0.0028 - accuracy: 1.0000 - val_loss: 0.1203 - val_accuracy: 0.9761
      Epoch 97/100
      147/147 [====
                    Epoch 98/100
      147/147 [====
                                 - 10s 66ms/step - loss: 0.0034 - accuracy: 0.9996 - val_loss: 0.2196 - val_accuracy: 0.9488
      Epoch 99/100
      147/147 [=====
                  Epoch 100/100
      Training time: -975.6852314472198
      [INFO] loss=0.1323, accuracy: 97.4403%
In [15]: (loss, accuracy) = custom_resnet_model.evaluate(X_test, y_test, batch_size=10, verbose=1)
      print("[INFO] loss={:.4f}, accuracy: {:.4f}%".format(loss,accuracy * 100))
      [INFO] loss=0.1323, accuracy: 97.4403%
```

visualizing losses and accuracy

In [16]: | display_loss_accuracy(hist)





Selection of appropriate layers

```
In [50]: train_image_generator = ImageDataGenerator(
             rescale=1./255,
             validation_split = 0.2,
             shear_range=0.2,
             zoom_range=0.2,
         train_generator = train_image_generator.flow_from_dataframe(
             dataframe=ftd,
             directory=train img dir,
             x_col='X_ray_image_name',
             y_col='target',
             target_size=(224, 224),
             batch_size=16,
             seed=2020,
             shuffle=True,
             class_mode='binary'
         validation_generator = train_image_generator.flow_from_dataframe(
             dataframe=final_validation_data,
             directory=train_img_dir,
             x_col='X_ray_image_name',
             y_col='target',
             target_size=(224, 224),
             batch_size=16,
             seed=2020,
             shuffle=True,
             class_mode='binary'
```

Found 0 validated image filenames belonging to 0 classes. Found 0 validated image filenames belonging to 0 classes.

Measurement of models performance

Convolutional Neural Network

```
In [56]: model = Sequential()
          model.add(Conv2D(32, (3, 3), input_shape= (224,224,3)))
model.add(Activation('relu'))
          model.add(MaxPooling2D(pool_size=(2, 2)))
          model.add(Conv2D(32, (3, 3)))
          model.add(Activation('relu'))
          model.add(MaxPooling2D(pool_size=(2, 2)))
          model.add(Conv2D(64,(3,3)))
          model.add(Activation("relu"))
          model.add(Conv2D(250,(3,3)))
          model.add(Dropout(0.5))
          model.add(Activation("relu"))
          model.add(Conv2D(128,(3,3)))
          model.add(Activation("relu"))
          model.add(AvgPool2D(2,2))
          model.add(Conv2D(64,(3,3)))
          model.add(Activation("relu"))
          model.add(AvgPool2D(2,2))
          model.add(Conv2D(256,(2,2)))
          model.add(Activation("relu"))
          model.add(MaxPool2D(2,2))
          model.add(Flatten())
          model.add(Dense(32))
          model.add(Dropout(0.5))
          model.add(Dense(1))
          model.add(Activation("sigmoid"))
```

In [67]: model.summary()

Model: "sequential_2"

Layer (type)	Output Shape	Param #
conv2d_1 (Conv2D)	(None, 222, 222, 32)	
activation (Activation)	(None, 222, 222, 32)	0
max_pooling2d (MaxPooling2D)	(None, 111, 111, 32)	0
conv2d_2 (Conv2D)	(None, 109, 109, 32)	9248
activation_1 (Activation)	(None, 109, 109, 32)	0
max_pooling2d_1 (MaxPooling2	(None, 54, 54, 32)	0
conv2d_3 (Conv2D)	(None, 52, 52, 64)	18496
activation_2 (Activation)	(None, 52, 52, 64)	0
conv2d_4 (Conv2D)	(None, 50, 50, 250)	144250
dropout_4 (Dropout)	(None, 50, 50, 250)	0
activation_3 (Activation)	(None, 50, 50, 250)	0
conv2d_5 (Conv2D)	(None, 48, 48, 128)	288128
activation_4 (Activation)	(None, 48, 48, 128)	0
average_pooling2d (AveragePo	(None, 24, 24, 128)	0
conv2d_6 (Conv2D)	(None, 22, 22, 64)	73792
activation_5 (Activation)	(None, 22, 22, 64)	0
average_pooling2d_1 (Average	(None, 11, 11, 64)	0
conv2d_7 (Conv2D)	(None, 10, 10, 256)	65792
activation_6 (Activation)	(None, 10, 10, 256)	0
max_pooling2d_2 (MaxPooling2	(None, 5, 5, 256)	0
flatten (Flatten)	(None, 6400)	0
dense_5 (Dense)	(None, 32)	204832
dropout_5 (Dropout)	(None, 32)	0
dense_6 (Dense)	(None, 1)	33
activation_7 (Activation)	(None, 1)	0

Trainable params: 805,467 Non-trainable params: 0

```
In [18]: test_image_path = 'C:/UOFT/3546_TermProject/covid/DL-final-project/Chest_xray_seperate/PNEUMONIA/person11_bacteria_45.jpeg'
          test_image = cv2.imread(test_image_path)
          if ( num_channel == 1):
              test_image=cv2.cvtColor(test_image, cv2.COLOR_BGR2GRAY)
          test_image=cv2.resize(test_image,(128,128))
          test_image = np.array(test_image)
          test_image = test_image.astype('float32')
          test_image /= 255
          print (test_image.shape)
          test image nd = np.expand dims(test image, axis=0)
          print (test_image_nd.shape)
          print (test_image.shape)
          # if num_channel==1:
               if (K.image_data_format() == 'channels_first'):
    test_image= np.expand_dims(test_image, axis=0)
         #
                    test_image= np.expand_dims(test_image, axis=0)
                    print (test_image.shape)
         #
          #
                eLse:
                    test_image= np.expand_dims(test_image, axis=3)
                    test_image= np.expand_dims(test_image, axis=0)
          #
          #
                    print (test_image.shape)
          # else:
                if (K.image_data_format() == 'channels_first'):
          #
          #
                    test_image=np.rollaxis(test_image,2,0)
          #
                    test_image= np.expand_dims(test_image, axis=0)
                    print (test_image.shape)
          #
                   test_image= np.expand_dims(test_image, axis=0)
                   print (test_image.shape)
          # Predicting the test image
          print((model.predict(test_image_nd)))
          print(model.predict_classes(test_image_nd))
          (128, 128, 3)
          (1, 128, 128, 3)
          (128, 128, 3)
          [[0.08644115 0.91355884]]
In [18]: test_image_path = 'C:/UOFT/3546_TermProject/covid/DL-final-project/Chest_xray_seperate/PNEUMONIA/person11_bacteria_45.jpeg'
          test_image = cv2.imread(test_image_path)
          if ( num_channel == 1):
              test_image=cv2.cvtColor(test_image, cv2.COLOR_BGR2GRAY)
          test_image=cv2.resize(test_image,(128,128))
          test_image = np.array(test_image)
          test_image = test_image.astype('float32')
          test_image /= 255
          print (test_image.shape)
          test_image_nd = np.expand_dims(test_image, axis=0)
          print (test image nd.shape)
          print (test_image.shape)
          # if num_channel==1:
                if (K.image_data_format() == 'channels_first'):
                    test_image= np.expand_dims(test_image, axis=0)
                    test_image= np.expand_dims(test_image, axis=0)
                    print (test_image.shape)
         #
                else:
                    test_image= np.expand_dims(test_image, axis=3)
                    test image= np.expand dims(test image, axis=0)
         #
                    print (test_image.shape)
         # else:
                if (K.image_data_format() == 'channels_first'):
                    test_image=np.rollaxis(test_image,2,0)
          #
          #
                    test_image= np.expand_dims(test_image, axis=0)
          #
                    print (test_image.shape)
          #
                    test_image= np.expand_dims(test_image, axis=0)
                   print (test_image.shape)
          # Predicting the test image
          print((model.predict(test_image_nd)))
          print(model.predict_classes(test_image_nd))
          (128, 128, 3)
          (1, 128, 128, 3)
          (128, 128, 3)
          [[0.08644115 0.91355884]]
          [1]
```

```
In [18]: test_image_path = 'C:/UOFT/3546_TermProject/covid/DL-final-project/Chest_xray_seperate/PNEUMONIA/person11_bacteria_45.jpeg'
          test_image = cv2.imread(test_image_path)
          if ( num_channel == 1):
              test_image=cv2.cvtColor(test_image, cv2.COLOR_BGR2GRAY)
          test_image=cv2.resize(test_image,(128,128))
          test_image = np.array(test_image)
          test_image = test_image.astype('float32')
          test_image /= 255
          print (test_image.shape)
          test_image_nd = np.expand_dims(test_image, axis=0)
          print (test_image_nd.shape)
          print (test_image.shape)
          # if num_channel==1:
                if (K.image_data_format() == 'channels_first'):
    test_image= np.expand_dims(test_image, axis=0)
    test_image= np.expand_dims(test_image, axis=0)
          #
          #
                    print (test_image.shape)
                else:
          #
                     test_image= np.expand_dims(test_image, axis=3)
          #
                     test_image= np.expand_dims(test_image, axis=0)
          #
                    print (test_image.shape)
          # else:
          #
                 if (K.image_data_format() == 'channels_first'):
          #
                     test_image=np.rollaxis(test_image,2,0)
                     test_image= np.expand_dims(test_image, axis=0)
                    print (test_image.shape)
          #
                    test_image= np.expand_dims(test_image, axis=0)
                    print (test_image.shape)
          # Predicting the test image
          print((model.predict(test_image_nd)))
          print(model.predict_classes(test_image_nd))
          (128, 128, 3)
          (1, 128, 128, 3)
          (128, 128, 3)
          [[0.08644115 0.91355884]]
          [1]
```

efficient Net80 model

```
In [17]:
    score = custom_resnet_model.evaluate(X_test, y_test, verbose=0)
    print('Test Loss:', score[0])
    print('Test accuracy:', score[1])

    test_image = X_test[0:1]
    print (test_image.shape)

    print(model.predict(test_image))
    print(model.predict_classes(test_image))
    print(y_test[0:1])
```

Test Loss: 0.09007590264081955 Test accuracy: 0.9692832827568054 (1, 224, 224, 3) [[1.14373943e-05 1.04924751e-04 2.51722900e-04 4.77186404e-04 1.18551354e-04 2.09018617e-05 4.94372798e-05 3.72421637e-05 2.81130688e-05 3.33237003e-05 5.39718130e-05 4.48332175e-05 1.52935299e-05 2.69304637e-05 9.17184298e-06 1.39459144e-05 3.57407189e-05 1.11406243e-05 9.04056869e-05 1.29782620e-05 4.97367182e-05 1.52026812e-04 1.29650245e-04 9.28172449e-05 5.12071965e-05 1.26058385e-05 2.34643376e-05 2.12379255e-05 1.80296520e-05 4.98396868e-04 2.47400421e-05 6.25148459e-05 1.78604005e-05 5.69082549e-05 7.87051613e-05 7.06591309e-05 2.68311251e-05 3.09490679e-05 3.14168792e-05 2.49381701e-05 3.04195401e-05 1.12252492e-05 7.05893126e-06 9.69405119e-06 2.52910850e-05 3.18797393e-05 5.48759344e-05 8.84422025e-06 5.99929308e-06 3.62554201e-05 4.74188018e-05 2.52091377e-05 1.06253538e-04 5.40399014e-05 7.13719346e-05 5.98135775e-05 2.53936560e-05.3.17523663e-05.3.84590785e-05.1.80896059e-05 1.09258735e-05 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______
AttributeError
                                        Traceback (most recent call last)
<ipython-input-17-83421ec204f5> in <module>
      8 print(model.predict(test image))
---> 9 print(model.predict_classes(test_image))
    10 print(v test[0:1])
AttributeError: 'Functional' object has no attribute 'predict_classes'
```

```
In [20]: Y_pred = custom_resnet_model.predict(X_test)
          print(Y_pred)
          y_pred = np.argmax(Y_pred, axis=1)
          print(y_pred)
          #y_pred = model.predict_classes(X_test)
          #print(y_pred)
          target_names = ['class 0(Normal)', 'class 1(Pneumonia)']
          print(classification_report(np.argmax(y_test,axis=1), y_pred,target_names=target_names))
          print(confusion_matrix(np.argmax(y_test,axis=1), y_pred))
          [[6.5542844e-07 9.9999940e-01]
[9.9147195e-01 8.5280919e-03]
           [1.9132092e-05 9.9998093e-01]
           ...
[2.7467880e-07 9.9999976e-01]
[8.9294559e-08 9.9999988e-01]
[9.9940789e-01 5.9217890e-04]]
          [1 0 1 ... 1 1 0]
                                precision
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             class 0(Normal)
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          class 1(Pneumonia)
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                 weighted avg
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          [[293 19]
           [ 17 843]]
```

Inception V3 model

```
In [17]:
    score = custom_resnet_model.evaluate(X_test, y_test, verbose=0)
    print('Test Loss:', score[0])
    print('Test accuracy:', score[1])

    test_image = X_test[0:1]
    print (test_image.shape)

    print(model.predict(test_image))
    print(model.predict_classes(test_image))
    print(y_test[0:1])
```

Test Loss: 0.9426031112670898 Test accuracy: 0.9044368863105774 (1, 224, 224, 3) [[0.00000000e+00 0.0000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 5.03167715e-37 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 1.74047309e-38 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 1.10367954e-12 3.56901005e-17 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 2.73727120e-38 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 1.15182127e-33 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 2.64303359e-38 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 2.22349476e-37 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 1.59960585e-37 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 1.57690685e-34 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.0000000e+00 0.0000000e+00 1.89064767e-33 0.0000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 1.33136502e-31 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 4.44405603e-34 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 2.88679555e-36 1.71623707e-38 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 1.46765690e-37 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00

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 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00
 8.40922328e-31 0.00000000e+00 0.00000000e+00 0.00000000e+00
 8.12579842e-36 0.00000000e+00 0.00000000e+00 0.00000000e+00
 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00
 0.00000000e+00 0.00000000e+00 0.0000000e+00 0.00000000e+00
 0.00000000e+00 0.00000000e+00 1.50588620e-38 0.00000000e+00
 0.00000000e+00 0.00000000e+00 0.00000000e+00 3.05354972e-33
 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00
 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00
 0.00000000e+00 0.00000000e+00 0.00000000e+00 0.00000000e+00]]
______
AttributeError
                                     Traceback (most recent call last)
     8 print(model.predict(test_image))
    10 print(v test[0:1])
AttributeError: 'Functional' object has no attribute 'predict_classes'
```

```
<ipython-input-17-83421ec204f5> in <module>
---> 9 print(model.predict_classes(test_image))
```

Testing a new image

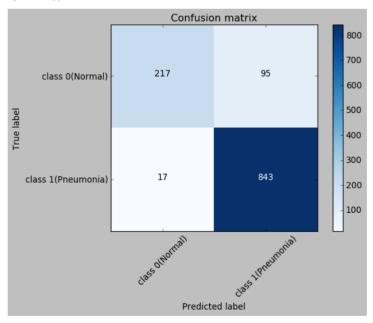
```
In [18]: test_image_path = 'D:/Harold/MyDNN/DataSet/Chest_xray_seperate/PNEUMONIA/person11_bacteria_45.jpeg'
         test_image = image.load_img(test_image_path, target_size=(224, 224))
         x = image.img_to_array(test_image)
         x = np.expand_dims(x, axis=0)
         x = preprocess_input(x)
         print (x.shape)
         # if num channel==1:
               if (K.image_data_format() == 'channels_first'):
                    test image= np.expand dims(test image. axis=0)
                    test image= np.expand_dims(test_image, axis=0)
                   print (test_image.shape)
               PISP:
                    test_image= np.expand_dims(test_image, axis=3)
         #
                   test_image= np.expand_dims(test_image, axis=0)
         #
                   print (test_image.shape)
         # else:
                if (K.image_data_format() == 'channels_first'):
         #
                    test_image=np.rollaxis(test_image,2,0)
                    test_image= np.expand_dims(test_image, axis=0)
         #
                   print (test_image.shape)
         #
                   test_image= np.expand_dims(test_image, axis=0)
                   print (test_image.shape)
         # Predicting the test image
         yhat = custom_resnet_model.predict(x)
         print(yhat)
         # print(custom_resnet_model.predict_classes(x))
         label = decode predictions(yhat)
         # retrieve the most likely result, e.g. highest probability
         label = label[0][0]
         (1, 224, 224, 3)
         [[7.9543006e-20 1.0000000e+00]]
         ValueError
                                                    Traceback (most recent call last)
         <ipython-input-18-505048f79341> in <module>
              30 print(yhat)
              31 # print(custom_resnet_model.predict_classes(x))
         ---> 32 label = decode_predictions(yhat)
              33 # retrieve the most likely result, e.g. highest probability
              34 label = label[0][0]
         D:\Anaconda3\lib\site-packages\tensorflow\python\keras\applications\inception_v3.py in decode_predictions(preds, top)
             412 @keras_export('keras.applications.inception_v3.decode_predictions')
             413 def decode_predictions(preds, top=5):
         --> 414 return imagenet_utils.decode_predictions(preds, top=top)
             415
             416
         D:\Anaconda3\lib\site-packages\tensorflow\python\keras\applications\imagenet_utils.py in decode_predictions(preds, top)
             149
                                       'a batch of predictions '
                                       '(i.e. a 2D array of shape (samples, 1000)).'
'Found array with shape: ' + str(preds.shape))
             150
         --> 151
                   if CLASS_INDEX is None:
             152
                     fpath = data utils.get file(
         ValueError: `decode_predictions` expects a batch of predictions (i.e. a 2D array of shape (samples, 1000)). Found array with shape:
```

(1, 2)

```
In [20]: Y_pred = custom_resnet_model.predict(X_test)
         print(Y_pred)
         y_pred = np.argmax(Y_pred, axis=1)
         print(y_pred)
          #y_pred = model.predict_classes(X_test)
          #print(y_pred)
         target names = ['class 0(Normal)', 'class 1(Pneumonia)']
         print(classification_report(np.argmax(y_test,axis=1), y_pred,target_names=target_names))
         print(confusion_matrix(np.argmax(y_test,axis=1), y_pred))
         [[2.1685484e-10 1.0000000e+00]
          [9.9941623e-01 5.8379851e-04]
[2.1206019e-14 1.0000000e+00]
          [3.4830153e-22 1.0000000e+00]
           [1.7426691e-19 1.0000000e+00]
          [8.4951813e-07 9.9999917e-01]]
         [1 0 1 ... 1 1 1]
                              precision
                                            recall f1-score
                                                               support
            class 0(Normal)
                                   0.93
                                              0.70
                                                        0.79
                                                                    312
         class 1(Pneumonia)
                                   0.90
                                              0.98
                                                        0.94
                                                                    860
                                                        0.90
                                                                   1172
                    accuracy
                  macro avg
                                   0.91
                                              0.84
                                                        0.87
                                                                  1172
               weighted avg
                                   0.91
                                              0.90
                                                        0.90
                                                                   1172
         [[217 95]
          [ 17 843]]
```

Compute confusion matrix

Confusion matrix, without normalization [[217 95] [17 843]]



Mobile NetV2 Model

```
In [17]:
    score = custom_resnet_model.evaluate(X_test, y_test, verbose=0)
    print('Test Loss:', score[0])
    print('Test accuracy:', score[1])

    test_image = X_test[0:1]
    print (test_image.shape)

    print(model.predict(test_image))
    print(model.predict_classes(test_image))
    print(y_test[0:1])
```

Test Loss: 0.24162615835666656 Test accuracy: 0.914675772190094 (1, 224, 224, 3) [[8.33914601e-05 9.43122213e-05 6.17418555e-05 6.54168252e-05 1.13233073e-04 4.74682347e-05 5.82300017e-05 1.08953674e-04 2.47885200e-05 1.91886254e-04 7.08437146e-05 3.57683566e-05 2.95793929e-04 5.55347469e-05 2.16536369e-04 6.21841609e-05 3.03070352e-04 4.57870956e-05 1.19120559e-04 8.90225492e-05 1.66406928e-04 9.70872716e-05 1.62744705e-04 1.49278203e-04 7.53177155e-05 1.09933528e-04 2.17667766e-04 1.03260376e-04 1.68310271e-05 4.71250714e-05 2.25656520e-04 1.11117632e-04 1.19079450e-04 3.50336049e-05 7.37054288e-05 1.12858543e-04 1.31092936e-04 5.13734412e-05 1.09661698e-04 1.33358277e-04 1.32257570e-04 3.87834370e-05 6.33041956e-04 8.69823198e-05 1.75937254e-04 4.36656082e-05 3.17085214e-04 4.07961088e-05 3.52774805e-05 9.89007895e-05 3.13197001e-04 3.97188778e-05 3.01094784e-04 2.42384500e-04 3.31761781e-04 3.03487395e-05 3.10513788e-05 1.01327387e-04 8.12207290e-04 2.79306027e-04 7.95677552e-05 3.58391902e-04 2.18163841e-04 1.20014038e-05 3 81811369e-05 1 32926434e-04 2 31196143e-04 2 24524265e-05 9.85946317e-05 1.02861639e-04 1.61079763e-04 2.17821958e-04 3.50604132e-05 2.44382943e-04 6.57923752e-04 1.51681917e-04 2.78034480e-04 1.11821643e-03 1.29941225e-04 7.72509258e-04 3.47995025e-04 1.38023504e-04 6.40542203e-05 4.19817152e-05 4.27196617e-04 4.55504705e-05 4.25938524e-05 6.52940753e-06 2.40640133e-04 1.50604916e-04 5.46822557e-04 1.12956704e-03 1.23571826e-03 6.57338824e-05 9.26602224e-05 4.90679340e-05 2.16124783e-04 5.13464547e-05 7.67093807e-05 4.40209726e-04 1.56303606e-04 3.04156449e-04 3.77853285e-05 1.33213616e-05 7.79672555e-05 1.12029833e-04 4.41315169e-05 5.07919642e-04 2.39844224e-03 1.99436821e-04 1.03430102e-04 1.63807563e-05 4.74627122e-05 1.43858822e-04 3.36380654e-05 9.86379018e-05 3.65483051e-04 2.97627383e-04 3.29633949e-05 1.55277128e-04 1.97401114e-05 5.45085131e-05 7.30986221e-06 7.17431467e-05 1.04610435e-05 1.34972914e-04 8.48182535e-05 5.58899483e-04 8.61329172e-05 1.34347181e-03 4.01100580e-04 9.56244621e-05 5.89205556e-05 7.04675767e-05 1.13356138e-04 1.90605904e-04 5.86017450e-05 2.83766531e-05 2.41395646e-05 2.35308864e-04 1.98521317e-04 9.12860487e-05 2.52444355e-04 1.62257536e-04 6.40077284e-04 1.32496934e-04 2.10071681e-04 6.35759934e-05 1.41753102e-04 1.35031165e-04 5.41926653e-04 3.66952663e-05 3.07578885e-05 6.28180278e-04 2.15198015e-05 8.01470087e-05 8.16880274e-05 8.74915640e-05 4.15920149e-05 7.44503195e-05 8.24786548e-05 5.42770031e-05 5.48054668e-05 4.74896988e-05 9.28548325e-05 4.52796885e-05 1.77980764e-05 1.84390505e-04 1.98084726e-05 1.04686733e-04 1.61515454e-05 1.20808099e-05 1.41941000e-05 6.96301358e-05 2.30870028e-05 1.98415233e-04 1.17952135e-04 5.10479294e-05 1.49995074e-04 8.08492041e-05 3.51375347e-05 2.29028607e-04 8.90064184e-05 3.12090066e-04 1.59218849e-04 4.08091466e-04 2.47155094e-05 6.27728441e-05 5.85914713e-05 1.24783706e-04 8.47743824e-04 2.00780225e-04 1.14579025e-05 4.24381542e-05 2.20518123e-04 2.41503993e-04 3.80996120e-04 1.66334023e-04 4.57426009e-04 2.28657053e-04 8.80086518e-05 2.42261885e-04 1.38663643e-04 1.01071002e-03 5.62849418e-05 1.17982512e-04 8.66682560e-04 2.85082497e-04 5.68611940e-05 3.75254785e-05 3.42668318e-05 9.50891044e-05 5.70256343e-05 1.05972678e-04 3.37440358e-03 1.68348161e-05 1.13453483e-03 9.97516909e-05 2.97156566e-05 9.10738425e-04 8.94142868e-05 3.80023732e-04 1.13284055e-04 1.53732763e-05 6.09609342e-05 4.30636464e-05 7.16900686e-05 1.03029714e-04 1.17967102e-04 2.91551783e-04 2.07727862e-05 2.68855474e-05 3.98764096e-04 1.12831323e-04 5.65429684e-04 1.08823864e-04 2.27547629e-04 8.15887543e-05 1.31144631e-03 1.72377404e-04 3.01062464e-05 1.25550898e-04 7.60590920e-05 1.35162845e-04 3.01215259e-05 7.59201357e-04 1.18775715e-04 1.13286223e-04 9.98448813e-05 5.13336236e-05 5.72519348e-05 2.53097154e-04 1.25184335e-04 2.11916649e-05 1.37296462e-04 3.80941747e-05 6.89057060e-06.1.19045166e-04.2.11454069e-04.4.46508348e-05 4.96068569e-05 4.19014759e-05 2.39833011e-04 1.74566085e-05 3.02299904e-05 6.74980110e-05 3.35405115e-04 9.43383129e-05 5.71627970e-05 1.47618804e-04 2.56361207e-04 8.28940611e-05 1.76530288e-04 5.17332774e-05 1.28926558e-05 2.16640274e-05 5.26299800e-06 6.59979298e-04 1.14130096e-04 2.94375030e-04 4.49465224e-05 3.86519037e-04 4.72550419e-05 5.00234251e-04 1.12830836e-03 8.48204363e-05 5.19808455e-05 9.09078008e-05 1.57584349e-04 2.78345804e-04 2.19877635e-04 4.03005979e-05 2.55742081e-04 1.43388272e-04 4.44702513e-04 2.79434986e-04 5.58324682e-04 5.39616995e-05 3.54843542e-05 1.03632403e-04 4.92443869e-05 2.78861407e-04 1.90620158e-05 8.88124196e-05 9.66425578e-05 6.71750022e-05 2.91049073e-04 7.77899695e-05 1.15416595e-03 1.02880273e-04 6.21788786e-05 2.89910240e-04 1.45386657e-04 1.36766161e-04 8.10648140e-04 6.69935369e-04 5.99710562e-04 3.34999604e-05 7.04395570e-05 2.60458299e-04 2.57278443e-04 1.14066189e-03 4.60094998e-05 4.41401935e-04 2.84365797e-05 3.70950802e-05 1.20685632e-04 1.47119304e-03 2.59156623e-05 2.63112506e-05 1.31254434e-04 2.98050581e-05 1.61606848e-04 5.05411881e-05 6.80081712e-06 9.02227985e-05 4.81993848e-05 1.60939198e-05 1.06712716e-04 2.13666572e-04 5.58225962e-04 2.65355629e-04 3.55328120e-05 5.77366372e-05 1.57414470e-05 7.45292418e-05 2.90369026e-05 3.63006620e-05

3.77016753e-04 8.69203868e-05 5.23683120e-05 3.87982960e-04

```
8 73839963e-05 3 36109719e-04 1 59285133e-04 3 57647252e-04
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1.35269817e-02 1.61069701e-03 6.28815324e-05 4.83175245e-05
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1.89164875e-05 1.16337396e-04 3.49664151e-05 5.81785971e-05
1.28549105e-03 7.51490414e-04 1.59569143e-04 1.30329296e-04
6.99314696e-05 4.23135440e-04 1.16385119e-04 1.07296789e-02
8.77031707e-05 8.07532706e-05 6.63905928e-04 8.49344142e-05
2.24430609e-04 1.57332077e-04 8.75685691e-06 7.69934268e-04
2 06400455e-05 3 19353530e-05 5 70448901e-05 1 94806253e-05
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8.68590578e-05 3.12234624e-03 7.49109677e-05 2.20658985e-04
5.02509007e-04 3.99989784e-02 8.39983113e-05 7.98574547e-05
5.47855336e-04 1.25976512e-05 5.13877967e-05 9.06003697e-05
5.23220806e-05 9.12444102e-06 2.34634455e-04 6.79804885e-04
3.31446150e-04 1.17720541e-04 9.75174538e-04 9.81520046e-04
9.12562013e-04 3.47146924e-05 1.41495068e-04 3.66432505e-04
6.45259570e-05 1.28914064e-04 7.21394317e-05 2.28986819e-03
3.76409618e-03 2.80516082e-03 1.48055784e-04 1.07101614e-05
4.61423806e-05 1.39898417e-04 1.82776726e-04 1.25178485e-04
3.83468068e-05 2.35304586e-03 3.29897623e-04 1.33856607e-03
1.06934596e-04 7.09476590e-04 8.69219512e-05 1.59723614e-03
1.43893967e-05 4.45995526e-03 6.88059226e-05 2.52713544e-05
2.10724911e-03 3.38549835e-05 2.71558602e-05 4.11760557e-04
1.15444149e-04 2.09193953e-04 1.98860871e-04 3.77124990e-04
1.20693345e-04 9.27479705e-04 3.17542319e-04 1.70437590e-04
2.65740935e-04 9.83073642e-06 1.02659171e-04 2.55792460e-04
1.47136417e-03 3.02899862e-05 1.36041519e-04 9.07273439e-04
5.02650626e-04 8.89950534e-05 1.07500923e-03 2.25143507e-04
2.58525215e-05 2.61601672e-04 1.77471444e-03 4.47884595e-05
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1.81706215e-04 2.27203942e-03 8.91905569e-04 1.27628358e-04
1.71735854e-04 3.64318621e-05 7.76324887e-05 2.27155426e-04
3.80234778e-01 1.11255853e-03 4.91088031e-05 7.29268868e-05
6.97635114e-04 2.08517420e-04 4.85319458e-03 8.05228367e-04
1.44731428e-04 9.00824016e-05 5.56111154e-05 3.25820292e-05
6.10917123e-05 4.72707288e-05 3.22346226e-04 5.27381853e-05
3.36610625e-04 1.03090955e-04 2.43045681e-04 4.20626864e-04
1.52519468e-04 6.08003756e-04 5.78366977e-04 6.52293442e-04
6.34193653e-04 7.08757085e-04 9.81467194e-04 1.93246495e-04
2.93523885e-06 5.46953233e-04 7.79101756e-05 1.26446816e-04
3.07050510e-03 7.41158001e-05 2.09731492e-03 1.64307945e-03
1.22230573e-04 5.14956249e-04 2.00441311e-04 9.52015325e-05
4.60930576e-04 1.96795794e-04 5.05214091e-04 1.70887785e-03
5.94898360e-04 2.80495060e-05 6.12656368e-05 4.76151326e-04
6.06533897e-04 6.90728833e-04 2.45146477e-03 3.85669337e-05
1.50876329e-03 1.49309664e-04 8.26684013e-03 1.86099369e-05
3.37498757e-04 8.78973442e-05 2.75093160e-04 1.37260722e-04
2.65541067e-03 3.17754515e-04 1.07748630e-04 9.04394081e-04
1.07567979e-03 3.74500407e-04 5.36410778e-04 2.80095974e-05
2.61744281e-05 1.83778873e-04 1.61253134e-04 5.47529125e-05
7.77427267e-05 3.06203519e-03 1.72918866e-04 9.53771960e-05
2.25956505e-03 3.95534909e-04 6.81745078e-05 1.34670379e-04
1.79122146e-02 1.01388141e-03 6.40834635e-03 4.89571248e-04
4.02923361e-05 4.73684740e-05 1.40673510e-04 1.73157154e-04
1.48242374e-03.8.56971892e-05.1.73195396e-04.8.43464513e-05
2.08894999e-04 4.32949892e-05 6.85631094e-05 6.85166684e-04
5.59892542e-05 1.69968873e-04 8.19040215e-05 5.71506680e-04
3.53219875e-05 1.04701510e-04 2.14931388e-05 3.53869582e-05
3.78410798e-04 5.04389638e-04 3.27573434e-05 2.83361995e-04
2.72948737e-03 9.21294268e-05 1.48180025e-05 2.46270763e-04
4.13689813e-05 4.71792555e-05 1.51615334e-03 3.52851202e-05
9.80600948e-04 2.52885919e-04 1.63716366e-04 3.37931451e-05
1.07107393e-04 6.50193251e-04 2.43731687e-04 6.05064961e-05
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______
AttributeError
                                        Traceback (most recent call last)
<ipython-input-17-83421ec204f5> in <module>
      8 print(model.predict(test_image))
---> 9 print(model.predict_classes(test_image))
    10 print(v test[0:1])
```

AttributeError: 'Functional' object has no attribute 'predict_classes'

```
In [18]: test_image_path = 'D:/Harold/MyDNN/DataSet/Chest_xray_seperate/PNEUMONIA/person11_bacteria_45.jpeg'
         test_image = image.load_img(test_image_path, target_size=(224, 224))
         x = image.img_to_array(test_image)
         x = np.expand_dims(x, axis=0)
         x = preprocess_input(x)
         print (x.shape)
         # if num channel==1:
               if (K.image_data_format() == 'channels_first'):
                    test image= np.expand dims(test image. axis=0)
                    test image= np.expand_dims(test_image, axis=0)
                   print (test_image.shape)
               PISP:
                    test_image= np.expand_dims(test_image, axis=3)
         #
                   test_image= np.expand_dims(test_image, axis=0)
         #
                   print (test_image.shape)
         # else:
                if (K.image_data_format() == 'channels_first'):
         #
                    test_image=np.rollaxis(test_image,2,0)
                    test_image= np.expand_dims(test_image, axis=0)
         #
                   print (test_image.shape)
         #
                   test_image= np.expand_dims(test_image, axis=0)
                   print (test_image.shape)
         # Predicting the test image
         yhat = custom_resnet_model.predict(x)
         print(yhat)
         # print(custom_resnet_model.predict_classes(x))
         label = decode predictions(yhat)
         # retrieve the most likely result, e.g. highest probability
         label = label[0][0]
         (1, 224, 224, 3)
         [[0.04744451 0.95255554]]
         ValueError
                                                    Traceback (most recent call last)
         <ipython-input-18-505048f79341> in <module>
              30 print(yhat)
              31 # print(custom_resnet_model.predict_classes(x))
         ---> 32 label = decode_predictions(yhat)
              33 # retrieve the most likely result, e.g. highest probability
              34 label = label[0][0]
         D:\Anaconda3\lib\site-packages\tensorflow\python\keras\applications\inception_v3.py in decode_predictions(preds, top)
             412 @keras_export('keras.applications.inception_v3.decode_predictions')
             413 def decode_predictions(preds, top=5):
         --> 414 return imagenet_utils.decode_predictions(preds, top=top)
             415
             416
         D:\Anaconda3\lib\site-packages\tensorflow\python\keras\applications\imagenet_utils.py in decode_predictions(preds, top)
             149
                                       'a batch of predictions '
                                       '(i.e. a 2D array of shape (samples, 1000)).'
'Found array with shape: ' + str(preds.shape))
             150
         --> 151
                   if CLASS_INDEX is None:
             152
                     fpath = data utils.get file(
         ValueError: `decode_predictions` expects a batch of predictions (i.e. a 2D array of shape (samples, 1000)). Found array with shape:
          (1, 2)
```

renet50

```
In [17]:
    score = custom_resnet_model.evaluate(X_test, y_test, verbose=0)
    print('Test Loss:', score[0])
    print('Test accuracy:', score[1])

    test_image = X_test[0:1]
    print (test_image.shape)

    print(model.predict(test_image))
    print(model.predict_classes(test_image))
    print(y_test[0:1])
```

```
Test Loss: 0.13225294649600983
Test accuracy: 0.9744027256965637
(1, 224, 224, 3)
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2.06842174e-06 7.68140399e-06 1.07899541e-05 2.91467586e-06
2.84931957e-06 1.47860090e-04 4.30169575e-06 1.07488831e-05
4.59787589e-05 5.46703232e-05 7.03009573e-06 1.99430560e-05
3.42860039e-06 4.22399671e-06 6.29881397e-05 5.03593292e-05
1.70047624e-05 2.34267577e-06 6.42493023e-06 1.19209335e-06
2.15346809e-04 3.78162440e-06 8.40231860e-06 5.85121888e-05
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1.90323753e-05 1.14208233e-05 3.64518337e-06 2.74725782e-04
1.66802511e-05 4.90731800e-05 2.14859301e-05 8.27478743e-07
6.38046004e-06 6.69588553e-06 4.86439931e-05 2.94567570e-07
1.45346610e-06 2.36542764e-05 5.61834313e-05 5.70035423e-04
7.14134103e-06 5.04184165e-04 9.28850553e-04 2.66718762e-05
1.97937461e-05 2.34957828e-04 1.12313012e-06 1.54577606e-06
1.91156039e-04 2.92513650e-05 3.64735342e-06 8.05021045e-06
5.52102756e-06 2.36397736e-05 1.86461883e-04 8.69344076e-05
7.38855801e-04 1.13097872e-06 3.45201647e-06 2.67267733e-05
5.17669905e-05 3.94152949e-06 9.94110039e-08 1.02107367e-03
3.70649213e-05 7.88004545e-05 2.20635525e-06 1.11422360e-05
1.52004883e-04 2.07467747e-05 2.19970061e-05 1.89681759e-05
2.91477704e-07 2.03410423e-06 1.43415236e-04 4.07606819e-07
3.71343731e-07 1.21202063e-07 1.54469137e-06 5.18416382e-05
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1.29404398e-07 1.32949333e-06 5.21159427e-06 4.13591010e-08
7.22797097e-07 5.77609389e-05 2.60100387e-06 2.77295186e-07
8.79857544e-05 2.48557399e-06 3.33061253e-05 1.84840428e-06
2.06588447e-06 9.42903935e-05 1.27391613e-05 3.86221131e-04
2.89812959e-07 9.07293781e-07 9.14044576e-05 1.18784788e-04
1.44671003e-05 3.06865513e-05 2.65360472e-06 2.47145545e-06
7.08662847e-05 4.67554706e-08 7.63243952e-05 4.61026211e-05
4.03199054e-04 2.75975566e-07 6.68384700e-06 3.74048363e-06
2.48065794e-06 7.88056695e-06 3.06886015e-03 1.04375024e-04
4.88235783e-05 3.22222841e-05 2.76110386e-05 3.63568074e-06
1.40114649e-08 3.91990943e-05 3.56440665e-07 2.30869646e-05
7.97552639e-05 1.15201226e-03 1.25383340e-05 3.24318215e-04
2.47357548e-06 6.83440303e-05 6.86029762e-06 4.83607437e-06
1.21831170e-06 4.36718392e-06 5.05537037e-06 3.59021215e-05
1.23418329e-04 4.54013381e-04 1.95090820e-06 1.79916094e-06
3.72640061e-04 2.53085134e-04 8.23253049e-06 1.11542977e-06
1.29810622e-04 6.05422611e-06 5.47393465e-05 3.38295195e-07
1.88352317e-07 1.01384667e-05 7.33205843e-06 4.75033376e-05
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5.10371116e-04 1.49897926e-06 6.17007436e-06 1.60871841e-05
4.19408798e-06 2.20982770e-06 2.88490191e-05 2.74454069e-05
8.71936663e-06 3.60013473e-05 2.32321071e-03 2.51333404e-04
2.51822348e-04 4.09818222e-06 1.71445140e-06 9.45266763e-08
5.68463793e-06 1.36511799e-05 2.69595825e-04 1.61458447e-03
2.42772586e-07 1.55881673e-04 6.31328949e-05 4.16917392e-05
5.45173316e-06 7.44753208e-07 7.79232232e-06 5.39383000e-05
4.50248399e-06 3.55712473e-06 1.38671661e-04 2.44844637e-06
4.92295039e-05 1.22241481e-05 3.03424658e-05 1.46714054e-04
1.15310540e-05 3.78642610e-04 1.30925957e-06 3.95897177e-06
1.03032858e-06 2.12843702e-07 1.84312103e-05 1.35504897e-05
3.08177623e-05 9.31254078e-07 2.19377671e-06 1.40750149e-06
2.77103413e-06 1.50421634e-03 5.47954687e-06 7.84884105e-06
1.34442689e-05 1.27914784e-04 2.03610898e-06 2.55877762e-06
7.29639680e-07 4.32577008e-06 8.44035894e-05 1.19183301e-06
1.02465716e-03 6.94555201e-05 1.54967870e-06 5.26904332e-05
2.13380144e-06 3.60782650e-07 6.98907070e-06 5.14113344e-04
1.20219784e-05 3.05959074e-05 1.08575435e-07 1.02883430e-04
8.84334731e-04 3.34499382e-05 3.18635784e-06 7.57592898e-06
6.32017545e-05 6.54682008e-05 3.43472857e-05 1.74541310e-05
1.87886071e-05 8.99571205e-06 8.88989052e-06 3.25882465e-05
4.18749369e-06 3.24225698e-06 3.95771849e-06 5.82839266e-06
2.83199537e-04 1.09739551e-04 1.02437571e-06 2.33481678e-05
6.11256382e-07 3.62084575e-05 2.69073917e-06 6.38804295e-07
```

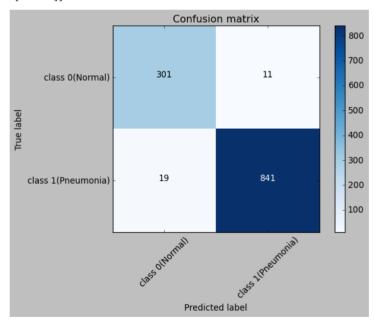
```
1 68975330e-05 7 29936858e-07 4 69654879e-05 9 58434839e-07
 1.16623396e-05 3.18129332e-06 2.63417624e-05 1.61167279e-07
 2.44845182e-07 1.47840212e-04 3.11488293e-06 1.70200997e-06
 1.69117455e-04 1.04137844e-05 9.06369337e-07 7.02995094e-05
 6.30474779e-06 3.74916417e-05 8.15141789e-07 1.95482149e-04
 1.63665663e-05 9.46354266e-05 1.25333008e-05 1.66010122e-05
 1.99244059e-05 2.11239931e-05 1.94751701e-05 2.05911729e-05
 3.29209695e-04 3.14238532e-05 3.62695204e-07 3.52477255e-05
 9.37491313e-06 1.92738080e-05 4.31706831e-05 2.57115266e-06
 1.95169850e-05 8.58446956e-03 1.87854255e-06 1.59508318e-06
 2.46171567e-05 2.86161753e-06 1.01712494e-05 3.48290519e-06
 2.47714834e-05 2.18087720e-04 2.13829549e-06 5.23960916e-05
 1.30321478e-05 4.40097683e-05 3.76050639e-06 3.32131895e-05
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 2.92102450e-05 4.44840378e-04 2.78215832e-03 3.26271955e-04
 8.13547449e-05 9.37511345e-07 1.28339278e-04 3.95520556e-06
 5.72408362e-06 4.45332120e-07 6.10011957e-05 9.87950716e-06
 6.84851830e-06 6.87362626e-04 2.87053790e-05 1.62784681e-06
 1.16443750e-03 1.19960787e-04 6.68877601e-06 7.05155526e-06
 7.51127482e-06 4.41425545e-05 8.68385494e-01 4.11766086e-06
 7.50159688e-06 4.51385858e-04 1.72617217e-06 3.76659416e-04
 1.03966563e-07 6.19818229e-06 3.53539377e-07 2.29919351e-05
 1.92507523e-05 9.72411362e-06 3.90483037e-04 3.46978004e-06
 3.11856165e-05 2.66272559e-06 1.59578831e-05 2.38444496e-04
 1.12737598e-05 9.12053565e-06 5.20690662e-07 1.06905558e-04
 8 12665277e-08 8 96848462e-07 4 85853207e-06 1 47953815e-05
 1.02085451e-07 1.24309815e-06 7.21049048e-07 1.65302597e-04
 1.28473184e-05 1.82003646e-07 1.76036301e-05 3.73523676e-06
 1.19854949e-05 6.30159866e-06 6.03208225e-03 6.73122471e-04
 3.23600170e-06 6.13015072e-06 6.28529466e-04 4.05782004e-07
 3.67343338e-04 2.02310417e-04 1.44595761e-04 2.47344688e-05
 1.92117986e-05 2.67578725e-04 5.09061269e-04 1.11675604e-06
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 1.02264516e-04 5.07008451e-07 1.24075723e-05 4.30560576e-05
 4.01811376e-05 3.60652879e-02 9.52280534e-05 1.05566389e-04
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 1.88063609e-06 7.31243233e-07 1.09413508e-04 5.59842147e-06
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 4.62726888e-07 4.34527137e-05 4.75226880e-05 2.52664768e-06
 9.74151772e-06 3.40019170e-07 5.78103791e-05 4.44442804e-07
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 9.49173284e-07 2.48400141e-07 2.54554798e-05 9.35261924e-05
 1.13045726e-05 2.96297640e-06 2.50614960e-07 6.59583566e-06
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 1.62482070e-06 4.54612916e-07 3.88075478e-06 6.19703883e-07
 1.11640183e-07 1.78760547e-05 9.90545141e-06 7.91555806e-07
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 1.76368158e-05 6.19397781e-07 4.93730397e-07 3.93128685e-05
 5.72621911e-06 2.75433791e-08 1.81638745e-06 3.58180927e-07
 2.10690857e-07 2.07777812e-05 1.16643912e-06 3.86570804e-07
 1.94599423e-07 4.16157627e-06 4.51370783e-04 7.39174948e-06
 1.35012567e-06 7.68352857e-06 1.72485688e-08 1.03070211e-04
 8.34732958e-08 9.23699091e-08 1.82024227e-08 2.52095500e-08
 1.99341756e-07 4.80747442e-09 1.07438849e-08 4.42679458e-08
 1.15368221e-06 2.79566930e-08 3.99251403e-05 2.31175116e-04]]
______
AttributeError
                                        Traceback (most recent call last)
<ipython-input-17-83421ec204f5> in <module>
     8 print(model.predict(test image))
---> 9 print(model.predict_classes(test_image))
    10 print(v test[0:1])
```

AttributeError: 'Functional' object has no attribute 'predict_classes'

```
In [21]: Y_pred = custom_resnet_model.predict(X_test)
         print(Y_pred)
         y_pred = np.argmax(Y_pred, axis=1)
         print(y_pred)
          #y_pred = model.predict_classes(X_test)
          #print(y_pred)
         target names = ['class 0(Normal)', 'class 1(Pneumonia)']
         print(classification_report(np.argmax(y_test,axis=1), y_pred,target_names=target_names))
         print(confusion_matrix(np.argmax(y_test,axis=1), y_pred))
         [[9.9328565e-07 9.9999905e-01]
          [1.00000000e+00 6.4503549e-16]
[1.3406505e-04 9.9986589e-01]
           [1.9769919e-10 1.0000000e+00]
           [7.7234494e-09 1.0000000e+00]
           [9.9999988e-01 9.0127173e-08]]
         [101...110]
                              precision
                                            recall f1-score
             class 0(Normal)
                                   0.94
                                              0.96
                                                         0.95
                                                                    312
         class 1(Pneumonia)
                                   0.99
                                              0.98
                                                         0.98
                                                                    860
                                                         0.97
                                                                   1172
                    accuracy
                   macro avg
                                   0.96
                                              0.97
                                                         0.97
                                                                   1172
                weighted avg
                                   0.97
                                              0.97
                                                         0.97
                                                                   1172
         [[301 11]
[ 19 841]]
```

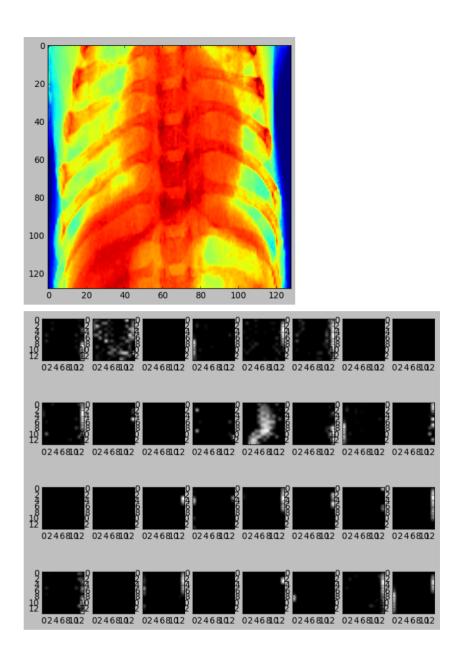
Compute confusion matrix

```
Confusion matrix, without normalization [[301 11] [ 19 841]]
```



regulization

```
In [19]: # def get_featuremaps(model, layer_idx, X_batch):
               print(model.layers[0].input)
               print(model.layers[layer_idx].output)
               print(test_image.shape)
              get\_activations = K.function([model.layers[0].input, K.learning\_phase()], [model.layers[layer\_idx].output,])
                activations = get_activations([X_batch,0])
         # #
               activations = 0
               return activations
         # Layer num=3
         # filter num=0
         # # print(X train[0])
         # activations = get_featuremaps(model, int(layer_num),test_image)
         # # print (np.shape(activations))
         # # feature_maps = activations[0][0]
         # # print (np.shape(feature_maps))
         # feature_maps = model.predict(test_image_nd)
         # print(feature_maps.shape)
         \# square = 4
         # index = 1
         ax = plt.subplot(square, square, index)
                  ax.set_xticks([])
                  ax.set_yticks([])
                  plt.imshow(feature_maps[0, index-1], cmap='viridis')
                   index += 1
         # plt.show()
         # model.summary()
         # successive_feature_maps = model.predict(test_image_nd)
         # Layer_names = [Layer.name for Layer in model.Layers]
         # for layer_name, feature_map in zip(layer_names, successive_feature_maps):
            print(feature map.shape)
            if len(feature_map.shape) == 4:
               # Plot Feature maps for the conv / maxpool layers, not the fully-connected layers
               n_features = feature_map.shape[-1] # number of features in the feature map
                         = feature_map.shape[ 1] # feature map shape (1, size, size, n_features)
               # We will tile our images in this matrix
               display_grid = np.zeros((size, size * n_features))
               # Postprocess the feature to be visually palatable
               for i in range(n_features):
                x = feature\_map[0, :, :, i]
                x -= x.mean()
                x /= x.std ()
                x += 128
                   = np.clip(x, 0, 255).astype('uint8')
                 # Tile each filter into a horizontal grid
                display_grid[:, i * size : (i + 1) * size] = x# Display the grid
               scale = 20. / n_features
               plt.figure( figsize=(scale * n_features, scale) )
plt.title ( layer_name )
               plt.grid (False)
               plt.imshow( display_grid, aspect='auto', cmap='viridis' )
         from keras.models import Model
         layer_outputs = [layer.output for layer in model.layers]
         activation_model = Model(inputs=model.input, outputs=layer_outputs)
         activations = activation_model.predict(X_train[10].reshape(1,128,128,3))
         def display_activation(activations, col_size, row_size, act_index):
             activation = activations[act_index]
             activation_index=0
             fig, ax = plt.subplots(row_size, col_size, figsize=(row_size*2.5,col_size*1))
             for row in range(0,row_size):
                 for col in range(0,col_size):
                     ax[row][col].imshow(activation[0, :, :, activation_index], cmap='gray')
                     activation_index += 1
         plt.imshow(test_image)
         plt.imshow(X train[10][:,:,0]);
         display_activation(activations, 8, 4, 3)
```



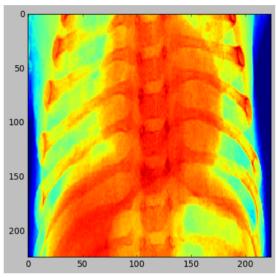
efficient Net80 model

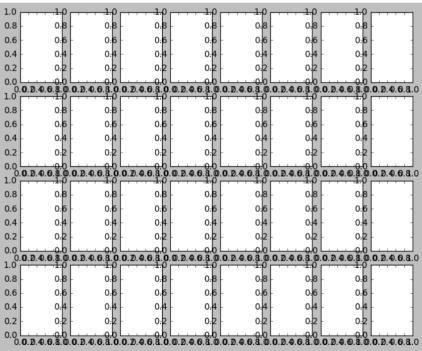
```
In [18]: test_image_path = 'D:/Harold/MyDNN/DataSet/Chest_xray_seperate/PNEUMONIA/person11_bacteria_45.jpeg'
         test_image = image.load_img(test_image_path, target_size=(224, 224))
         x = image.img_to_array(test_image)
         x = np.expand_dims(x, axis=0)
         x = preprocess_input(x)
         print (x.shape)
         # if num channel==1:
               if (K.image data format() == 'channels first'):
                   test image= np.expand dims(test image. axis=0)
                   test image= np.expand_dims(test_image, axis=0)
                   print (test_image.shape)
         #
               PISP:
                   test_image= np.expand_dims(test_image, axis=3)
         #
                   test_image= np.expand_dims(test_image, axis=0)
         #
                   print (test_image.shape)
         # else:
               if (K.image_data_format() == 'channels_first'):
         #
                   test_image=np.rollaxis(test_image,2,0)
         #
                   test_image= np.expand_dims(test_image, axis=0)
         #
                   print (test_image.shape)
         #
                   test_image= np.expand_dims(test_image, axis=0)
                  print (test_image.shape)
         # Predicting the test image
         yhat = custom_resnet_model.predict(x)
         print(yhat)
         # print(custom_resnet_model.predict_classes(x))
         label = decode predictions(yhat)
         # retrieve the most likely result, e.g. highest probability
         label = label[0][0]
         (1, 224, 224, 3)
         [[0.00159899 0.998401 ]]
         ______
                                                  Traceback (most recent call last)
         <ipython-input-18-505048f79341> in <module>
             30 print(yhat)
              31 # print(custom_resnet_model.predict_classes(x))
         ---> 32 label = decode_predictions(yhat)
              33 # retrieve the most likely result, e.g. highest probability
              34 label = label[0][0]
         D:\Anaconda3\lib\site-packages\tensorflow\python\keras\applications\inception v3.py in decode predictions(preds, top)
             412 @keras_export('keras.applications.inception_v3.decode_predictions')
             413 def decode_predictions(preds, top=5):
                  return imagenet_utils.decode_predictions(preds, top=top)
         --> 414
             415
             416
         D:\Anaconda3\lib\site-packages\tensorflow\python\keras\applications\imagenet_utils.py in decode_predictions(preds, top)
             149
                                      'a batch of predictions
                                      '(i.e. a 2D array of shape (samples, 1000)). '
'Found array with shape: ' + str(preds.shape))
             150
         --> 151
             152
                  if CLASS_INDEX is None:
             153
                    fpath = data_utils.get_file(
         ValueError: `decode_predictions` expects a batch of predictions (i.e. a 2D array of shape (samples, 1000)). Found array with shape:
          (1, 2)
```

Visualizing the intermediate layer

```
In [19]: from keras.models import Model
layer_outputs = [layer.output for layer in model.layers]
activation_model = Model(inputs=custom_resnet_model.input, outputs=layer_outputs)
activations = custom_resnet_model.predict(X_train[10].reshape(1,224,224,3))
print(activations.shape)
def display_activation(activations, col_size, row_size, act_index):
    activation = activations[0, act_index]
    activation_index=1
    fig, ax = plt.subplots(row_size, col_size, figsize=(row_size*2.5,col_size*1))
    for row in range(0,row_size):
        for col in range(0,col_size):
            ax[row][col].imshow(activation[0, :, :, activation_index], cmap='gray')
            activation_index += 1
    plt.imshow(test_image)
    plt.imshow(X_train[10][:,:,0]);
    display_activation(activations, 8, 4, 1)
```

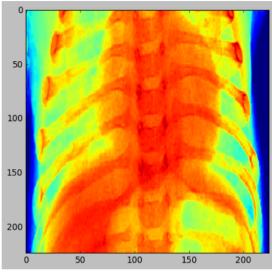
IndexError: invalid index to scalar variable.

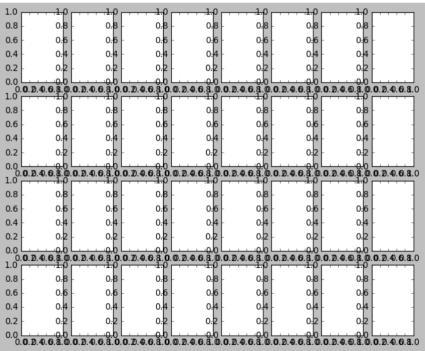




```
In [19]: from keras.models import Model
layer_outputs = [layer.output for layer in model.layers]
activation_model = Model(inputs=custom_resnet_model.input, outputs=layer_outputs)
activations = custom_resnet_model.predict(X_train[10].reshape(1,224,224,3))
print(activations.shape)
def display_activation(activations, col_size, row_size, act_index):
    activation = activations[0, act_index]
    activation_index=1
    fig, ax = plt.subplots(row_size, col_size, figsize=(row_size*2.5,col_size*1))
    for row in range(0,row_size):
        for col in range(0,col_size):
            ax[row][col].imshow(activation[0, :, :, activation_index], cmap='gray')
            activation_index += 1
    plt.imshow(test_image)
    plt.imshow(X_train[10][:,:,0]);
    display_activation(activations, 8, 4, 1)
```

IndexError: invalid index to scalar variable.





```
In [17]:
    score = custom_resnet_model.evaluate(X_test, y_test, verbose=0)
    print('Test Loss:', score[0])
    print('Test accuracy:', score[1])

    test_image = X_test[0:1]
    print (test_image.shape)

    print(model.predict(test_image))
    print(model.predict_classes(test_image))
    print(y_test[0:1])
```

Test Loss: 0.24162615835666656 Test accuracy: 0.914675772190094 (1, 224, 224, 3) [[8.33914601e-05 9.43122213e-05 6.17418555e-05 6.54168252e-05 1.13233073e-04 4.74682347e-05 5.82300017e-05 1.08953674e-04 2.47885200e-05 1.91886254e-04 7.08437146e-05 3.57683566e-05 2.95793929e-04 5.55347469e-05 2.16536369e-04 6.21841609e-05 3.03070352e-04 4.57870956e-05 1.19120559e-04 8.90225492e-05 1.66406928e-04 9.70872716e-05 1.62744705e-04 1.49278203e-04 7.53177155e-05 1.09933528e-04 2.17667766e-04 1.03260376e-04 1.68310271e-05 4.71250714e-05 2.25656520e-04 1.11117632e-04 1.19079450e-04 3.50336049e-05 7.37054288e-05 1.12858543e-04 1.31092936e-04 5.13734412e-05 1.09661698e-04 1.33358277e-04 1.32257570e-04 3.87834370e-05 6.33041956e-04 8.69823198e-05 1.75937254e-04 4.36656082e-05 3.17085214e-04 4.07961088e-05 3.52774805e-05 9.89007895e-05 3.13197001e-04 3.97188778e-05 3.01094784e-04 2.42384500e-04 3.31761781e-04 3.03487395e-05 3.10513788e-05 1.01327387e-04 8.12207290e-04 2.79306027e-04 7.95677552e-05 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  1.13934024e-04 2.91827037e-05 1.47375016e-04 5.59431974e-05
 1.17024174e-04 1.57576782e-04 3.46450892e-04 7.32991204e-04
  1.69161067e-04 1.59455743e-03 1.73376029e-05 8.59025677e-05
  1.01042865e-03 1.09213754e-04 1.79306717e-05 5.39152825e-04
  1.89648981e-05 7.20300188e-04 1.79962174e-03 3.27884639e-03
  7.25260616e-05 3.15109646e-04 7.32668326e-04 1.53096189e-05
  4.52849163e-05 3.47554538e-04 2.79870495e-04 6.85701016e-05
  1.07863576e-04 1.66341953e-04 1.45367114e-04 1.51955945e-04
  1.18492193e-04 7.17391435e-04 2.06604693e-03 2.06299519e-04
  2.54458486e-04 6.54346426e-04 2.97473860e-04 7.34544301e-04
  6.25758403e-05 2.90876233e-05 1.74098328e-04 1.11928071e-04
  1.14851497e-01 2.62955250e-03 2.40852195e-03 1.72162443e-04
  8.75283731e-05 6.66758686e-04 1.76057420e-05 1.84296805e-04
  1.70327738e-04 2.79838045e-04 4.37207578e-04 8.90741474e-04
  2.95937969e-03 3.18998966e-04 7.71548730e-05 1.85021563e-04
  1.17419753e-03 2.78085681e-05 9.33784249e-05 6.90118832e-05
  4.32995730e-05 2.92342224e-06 4.15394534e-05 1.52136008e-05
  1.29134523e-05 2.94119789e-04 9.48211455e-05 6.97282157e-05
  6.17292535e-05 4.16714574e-05 5.00194401e-05 1.13236427e-04
  5.65801565e-06 1.36517001e-05 4.56229645e-06 5.45705625e-05
  1.98253110e-05 1.48473191e-04 6.39737045e-05 2.67284995e-05
  4.29977372e-05 1.51909131e-04 1.80505929e-04 3.08210932e-04
  2.26825607e-04 7.97288594e-05 9.52363989e-05 4.29513457e-05
  5.10523641e-05 2.09242899e-05 6.18914710e-05 5.63330032e-05
  1.90053997e-05 6.33332165e-05 5.60914486e-05 3.97748627e-05
  1.83574355e-06 1.78109458e-05 5.12331644e-05 2.07487301e-05
  3.00131378e-05 2.81950579e-05 4.41239914e-03 1.48228282e-04
  8.43753296e-05 5.18359993e-05 9.11546085e-05 5.44237951e-03
 1.05446445e-04 7.14217837e-04 6.95484108e-04 1.59877454e-04
  1.04986575e-04 1.55470407e-04 5.15914580e-04 2.69758631e-04
  5.53757884e-04 9.67251690e-05 1.41127763e-04 5.17273264e-04
  1.65178091e-04 4.38820600e-04 7.76213055e-05 7.71105988e-04
  8.71600205e-05 6.32327283e-04 2.78978841e-04 3.60339385e-04
  1.25893086e-04 1.04214778e-04 5.29835888e-05 8.40803841e-05
  3.67418434e-05 7.11586326e-05 4.39933137e-05 1.84522447e-04]]
______
AttributeError
                                        Traceback (most recent call last)
<ipython-input-17-83421ec204f5> in <module>
      8 print(model.predict(test_image))
---> 9 print(model.predict_classes(test_image))
    10 print(v test[0:1])
```

AttributeError: 'Functional' object has no attribute 'predict_classes'

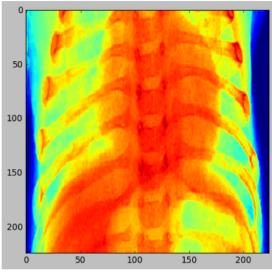
```
In [18]: test_image_path = 'D:/Harold/MyDNN/DataSet/Chest_xray_seperate/PNEUMONIA/person11_bacteria_45.jpeg'
         test_image = image.load_img(test_image_path, target_size=(224, 224))
         x = image.img_to_array(test_image)
         x = np.expand_dims(x, axis=0)
         x = preprocess_input(x)
         print (x.shape)
         # if num channel==1:
               if (K.image_data_format() == 'channels_first'):
                    test image= np.expand dims(test image. axis=0)
                    test image= np.expand_dims(test_image, axis=0)
                   print (test_image.shape)
               PISP:
                    test_image= np.expand_dims(test_image, axis=3)
         #
                   test_image= np.expand_dims(test_image, axis=0)
         #
                   print (test_image.shape)
         # else:
                if (K.image_data_format() == 'channels_first'):
         #
                    test_image=np.rollaxis(test_image,2,0)
                    test_image= np.expand_dims(test_image, axis=0)
         #
                   print (test_image.shape)
         #
                   test_image= np.expand_dims(test_image, axis=0)
                   print (test_image.shape)
         # Predicting the test image
         yhat = custom_resnet_model.predict(x)
         print(yhat)
         # print(custom_resnet_model.predict_classes(x))
         label = decode predictions(yhat)
         # retrieve the most likely result, e.g. highest probability
         label = label[0][0]
         (1, 224, 224, 3)
         [[0.04744451 0.95255554]]
         ValueError
                                                    Traceback (most recent call last)
         <ipython-input-18-505048f79341> in <module>
              30 print(yhat)
              31 # print(custom_resnet_model.predict_classes(x))
         ---> 32 label = decode_predictions(yhat)
              33 # retrieve the most likely result, e.g. highest probability
              34 label = label[0][0]
         D:\Anaconda3\lib\site-packages\tensorflow\python\keras\applications\inception_v3.py in decode_predictions(preds, top)
             412 @keras_export('keras.applications.inception_v3.decode_predictions')
             413 def decode_predictions(preds, top=5):
         --> 414 return imagenet_utils.decode_predictions(preds, top=top)
             415
             416
         D:\Anaconda3\lib\site-packages\tensorflow\python\keras\applications\imagenet_utils.py in decode_predictions(preds, top)
             149
                                       'a batch of predictions '
                                       '(i.e. a 2D array of shape (samples, 1000)).'
'Found array with shape: ' + str(preds.shape))
             150
         --> 151
                   if CLASS_INDEX is None:
             152
                     fpath = data utils.get file(
         ValueError: `decode_predictions` expects a batch of predictions (i.e. a 2D array of shape (samples, 1000)). Found array with shape:
          (1, 2)
```

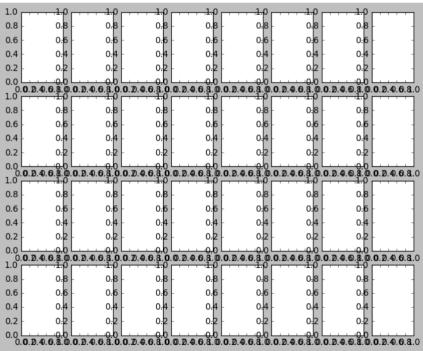
Resnet50

```
In [19]: from keras.models import Model
layer_outputs = [layer.output for layer in model.layers]
activation_model = Model(inputs=custom_resnet_model.input, outputs=layer_outputs)
activations = custom_resnet_model.predict(X_train[10].reshape(1,224,224,3))
print(activations.shape)
def display_activation(activations, col_size, row_size, act_index):
    activation = activations[0, act_index]
    activation_index=1
    fig, ax = plt.subplots(row_size, col_size, figsize=(row_size*2.5,col_size*1))
    for row in range(0,row_size):
        for col in range(0,col_size):
            ax[row][col].imshow(activation[0, :, :, activation_index], cmap='gray')
            activation_index += 1
    plt.imshow(test_image)
    plt.imshow(X_train[10][:,:,0]);
display_activation(activations, 8, 4, 1)
```

```
(1, 2)
```

IndexError: invalid index to scalar variable.





In this report, we have conducted 5 models with are Resnet50, mobileNetV2, EfficientNet80, VGG19 and InceptionV3. We have also 2 classs 0 and 1 which is normal and Pneumonia. In the MobileNetV2 we see that in class 0, the precision is 0.88, recall is 0.73, f1-score is 0.83 and support is 312. In class 1, the precision is 0.93, recall is 0.96, f1-score is 0.94 and support is 860. In the VGG19 we see that in class 0, the precision is 0.89, recall is 0.85, f1-score is 0.87 and support is 312. In class 1, the precision is 0.95, recall is 0.96, f1-score is 0.95 and support is 860. In the Inception V3 we see that in class 0, the precision is 0.93, recall is 0.70, f1-score is 0.79 and support is 312. In class 1, the precision is 0.90, recall is 0.98, f1-score is 0.94 and support is 860. In the ResNet50 we see that in class 0, the precision is 0.94, recall is 0.96, f1-score is 0.95 and support is 312. In class 1, the precision is 0.99, recall is 0.98, f1-score is 0.98 and support is 860. In the EfficientNetB0 we see that in class 0, the precision is 0.95, recall is 0.94, f1-score is 0.94 and support is 312. In class 1, the precision is 0.98, g1-score is 0.98 and support is 860. Based on the f1-score, the best models used in the x-ray dataset is EfficientNetB0.

In []: