∨ Практическое задание №1

Установка необходимых пакетов:

```
Pipi install -q tqdm

Proposed --no-cache-dir gdown

Requirement already satisfied: gdown in /usr/local/lib/python3.10/dist-packages (4.7.1)

Requirement already satisfied: filelock in /usr/local/lib/python3.10/dist-packages (from gdown) (3.13.1)

Requirement already satisfied: requests[socks] in /usr/local/lib/python3.10/dist-packages (from gdown) (2.31.0)

Requirement already satisfied: six in /usr/local/lib/python3.10/dist-packages (from gdown) (1.16.0)

Requirement already satisfied: tqdm in /usr/local/lib/python3.10/dist-packages (from gdown) (4.66.1)

Requirement already satisfied: beautifulsoup4 in /usr/local/lib/python3.10/dist-packages (from gdown) (4.11.2)

Requirement already satisfied: soupsieve>1.2 in /usr/local/lib/python3.10/dist-packages (from beautifulsoup4->gdown) (2.5)

Requirement already satisfied: idna<4,>=2.5 in /usr/local/lib/python3.10/dist-packages (from requests[socks]->gdown) (3.3.2)

Requirement already satisfied: urllib3<3,>=1.21.1 in /usr/local/lib/python3.10/dist-packages (from requests[socks]->gdown) (2.0.7)

Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.10/dist-packages (from requests[socks]->gdown) (2023.7.22)

Requirement already satisfied: PySocks!=1.5.7,>=1.5.6 in /usr/local/lib/python3.10/dist-packages (from requests[socks]->gdown) (1.7.1)
```

Монтирование Baшего Google Drive к текущему окружению:

```
1 from google.colab import drive
2 drive.mount('/content/drive', force_remount=True)
```

Mounted at /content/drive

Константы, которые пригодятся в коде далее, и ссылки (gdrive идентификаторы) на предоставляемые наборы данных:

```
1 EVALUATE ONLY = True
 2 TEST ON LARGE DATASET = True
 3 TISSUE_CLASSES = ('ADI', 'BACK', 'DEB', 'LYM', 'MUC', 'MUS', 'NORM', 'STR', 'TUM')
 4 '''DATASETS LINKS = {
 5
      'train': '1XtQzVQ5XbrfxpLHJuL0XBGJ5U7CS-cLi',
      'train_small': '1qd45xXfDwdZjktLFwQb-et-mAaFeCzOR',
 6
 7
       'train_tiny': '1I-2ZOuXLd4QwhZQQltp817Kn3J0Xgbui',
 8
       'test': '1RfPou3pFKpuHDJZ-D9XDFzgvwpUBFlDr',
 9
      'test small': '1wbRsog0n7uGlHIPGLhyN-PMeT2kdQ21I',
10
      'test tiny': '1viiB0s041CNsAK4itvX8PnYthJ-MDnQc'
11 }'''
12
13 DATASETS LINKS = {
14
      'train': '1xYKk9SxQWouOWGGO-whb07MSBfTcWbqq',
      'train_small': '11ENg_uoR2dHIm4bI0dNl-IkFdMetD-iw',
15
16
      'train tiny': '1ZbXt4TuJyOUbpvSj587PDxaOaTXoI1se',
17
       'test': '1snA9mev5NDmkvj aoTSp00xwRGGlseml',
18
       'test_small': '1XzTOrE0pZL7njuBx9wEMQC8JInSC2iUe',
19
       'test tiny': '1Q6bDJsIxs13gmKfeSepKRz9i44kWOXyC'
20 }
21
```

Импорт необходимых зависимостей:

```
1 from pathlib import Path
2 import numpy as np
3 from typing import List
4 from tqdm.notebook import tqdm
5 from time import sleep
6 from PIL import Image
7 import IPython.display
8 from sklearn.metrics import balanced_accuracy_score
9 import gdown
```

∨ Класс Dataset

Предназначен для работы с наборами данных, обеспечивает чтение изображений и соответствующих меток, а также формирование пакетов (батчей).

```
1 class Dataset:
 2
      def __init__(self, name):
           self.name = name
 5
           self.is loaded = False
 6
          url = f"https://drive.google.com/uc?export=download&confirm=pbef&id={DATASETS LINKS[name]}"
 7
          output = f'{name}.npz'
 8
           gdown.download(url, output, quiet=False)
 9
           print(f'Loading dataset {self.name} from npz.')
10
          np obj = np.load(f'{name}.npz')
11
          self.images = np_obj['data']
12
          self.labels = np obj['labels']
          self.n_files = self.images.shape[0]
13
14
           self.is loaded = True
15
           print(f'Done. Dataset {name} consists of {self.n_files} images.')
16
17
      def image(self, i):
18
           # read i-th image in dataset and return it as numpy array
19
          if self.is loaded:
20
               return self.images[i, :, :, :]
21
22
      def images seq(self, n=None):
23
           # sequential access to images inside dataset (is needed for testing)
24
           for i in range(self.n_files if not n else n):
25
              yield self.image(i)
26
27
       def random image with label(self):
28
           # get random image with label from dataset
29
          i = np.random.randint(self.n files)
30
           return self.image(i), self.labels[i]
31
32
       def random batch with labels(self, n):
33
           # create random batch of images with labels (is needed for training)
34
          indices = np.random.choice(self.n_files, n)
35
          imgs = []
36
          for i in indices:
37
              img = self.image(i)
38
               imgs.append(self.image(i))
39
           logits = np.array([self.labels[i] for i in indices])
40
           return np.stack(imgs), logits
41
42
       def image_with_label(self, i: int):
43
           # return i-th image with label from dataset
44
           return self.image(i), self.labels[i]
```

∨ Пример использвания класса Dataset

Загрузим обучающий набор данных, получим произвольное изображение с меткой. После чего визуализируем изображение, выведем метку. В будущем, этот кусок кода можно закомментировать или убрать.

```
1 d_train_tiny = Dataset('train_tiny')
2
3 img, lbl = d_train_tiny.random_image_with_label()
4 print()
5 print(f'Got numpy array of shape {img.shape}, and label with code {lbl}.')
6 print(f'Label code corresponds to {TISSUE_CLASSES[lbl]} class.')
7
8 pil_img = Image.fromarray(img)
9 IPython.display.display(pil_img)

Downloading...
From: https://drive.google.com/uc?export=download&confirm=pbef&id=17bXt4TulyOUbpvSj587PDxaOaTXoIIse
TO: /content/train_tiny.npz
100%| 105M/105M [00:01<00:00, 57.3MB/s]
Loading dataset train_tiny from npz.
Done. Dataset train_tiny consists of 900 images.

Got numpy array of shape (224, 224, 3), and label with code 5.
Label code corresponds to MUS class.</pre>
```

Класс Metrics

Реализует метрики точности, используемые для оценивания модели:

- 1. точность,
- 2. сбалансированную точность.

```
1 class Metrics:
 2
 3
      @staticmethod
 4
      def accuracy(gt: List[int], pred: List[int]):
 5
          assert len(gt) == len(pred), 'gt and prediction should be of equal length'
          return sum(int(i[0] == i[1]) for i in zip(gt, pred)) / len(gt)
 6
 7
 8
      @staticmethod
 9
      def accuracy balanced(gt: List[int], pred: List[int]):
10
          return balanced accuracy score(gt, pred)
11
12
      @staticmethod
13
      def print all(gt: List[int], pred: List[int], info: str):
14
          print(f'metrics for {info}:')
15
          print('\t accuracy {:.4f}:'.format(Metrics.accuracy(gt, pred)))
16
          print('\t balanced accuracy {:.4f}:'.format(Metrics.accuracy balanced(gt, pred)))
```

Класс Model

Класс, хранящий в себе всю информацию о модели.

Вам необходимо реализовать методы save, load для сохранения и заргрузки модели. Особенно актуально это будет во время тестирования на дополнительных наборах данных.

Пожалуйста, убедитесь, что сохранение и загрузка модели работает корректно. Для этого обучите модель, протестируйте, сохраните ее в файл, перезапустите среду выполнения, загрузите обученную модель из файла, вновь протестируйте ее на тестовой выборке и убедитесь в том, что получаемые метрики совпадают с полученными для тестовой выбрки ранее.

Также, Вы можете реализовать дополнительные функции, такие как:

- 1. валидацию модели на части обучающей выборки;
- 2. использование кроссвалидации;
- 3. автоматическое сохранение модели при обучении;
- 4. загрузку модели с какой-то конкретной итерации обучения (если используется итеративное обучение);
- 5. вывод различных показателей в процессе обучения (например, значение функции потерь на каждой эпохе);
- 6. построение графиков, визуализирующих процесс обучения (например, график зависимости функции потерь от номера эпохи обучения):
- 7. автоматическое тестирование на тестовом наборе/наборах данных после каждой эпохи обучения (при использовании итеративного обучения);
- 8. автоматический выбор гиперпараметров модели во время обучения;
- 9. сохранение и визуализацию результатов тестирования;
- 10. Использование аугментации и других способов синтетического расширения набора данных (дополнительным плюсом будет обоснование необходимости и обоснование выбора конкретных типов аугментации)
- 11. и т.д.

Полный список опций и дополнений приведен в презентации с описанием задания.

методов в класс модели.	

```
1 import matplotlib.pyplot as plotter lib
 2 import numpy as np
 3 import PIL as image_lib
 4 import tensorflow as tflow
 5 from tensorflow.keras.layers import Flatten, Dense
 6 from tensorflow.keras.models import Sequential
 7 from tensorflow.keras.optimizers import Adam
 8 import sklearn
 9 from sklearn.model selection import KFold
10
11 class Model:
12
13
      def init (self, input shape=(224, 224, 3), num classes=9):
14
           self.resnet model = self.made model(input shape, num classes)
15
16
      def made model(self, input shape, num classes):
17
           resnet model = Sequential()
18
           pretrained_model = tflow.keras.applications.ResNet50(include_top=False,
19
                     input shape=input shape,
20
                     pooling='avg',
21
                     classes=num_classes,
22
                     weights='imagenet')
23
           for each layer in pretrained model.layers:
24
               each_layer.trainable=False
25
           resnet_model.add(pretrained_model)
26
           resnet model.add(Flatten())
27
           resnet_model.add(Dense(512, activation='relu'))
28
           resnet_model.add(Dense(num_classes, activation='softmax'))
29
           return resnet model
30
31
      def save(self, name: str):
32
           self.resnet model.save(f'{name}.h5')
33
34
      def load(self, name: str):
35
          DATASETS LINKS = {
               'best': '1-jDYVa2CxinJ82482IGt kv0ZRDH1Wgl',
36
37
               'best train tiny': '1-eyszhdAczAsCC6NoSqRxCOqY1ucCaWW',
38
               'best train small': '1-jDYVa2CxinJ82482IGt kvQZRDH1Wgl'
39
40
           link = f"https://drive.google.com/uc?export=download&id={DATASETS_LINKS.get(name, '')}
41
           gdown.download(link, f'{name}.h5', quiet=False)
42
           self.resnet_model.load_weights(f'{name}.h5')
43
44
      def train(self, dataset: Dataset):
45
          X = dataset.images
46
          y = dataset.labels
47
           kf = KFold(n splits = int(0.7 * dataset.n files))
48
           for train_index, test_index in kf.split(X):
49
              X_train, X_test = X[train_index], X[test_index]
50
              y_train, y_test = y[train_index], y[test_index]
51
              break
52
53
           print(f'training started')
54
           epochs = 5
55
           self.resnet_model.compile(optimizer=Adam(lr=0.001),
56
                                loss='sparse categorical crossentropy',
```

```
57
                                metrics=['accuracv'])
58
          history = self.resnet model.fit(X train, y train,
59
                                    validation_data=(X_test, y_test),
60
                                    epochs=epochs)
61
           '''history = self.resnet model.fit(X, y,
62
                                    validation split=0.4.
                                    epochs=epochs)'''
63
64
          print(f'training done')
65
          self.resnet model = self.save(f'/content/drive/My Drive/best {dataset.name}')
66
          plotter lib.figure(figsize=(5, 5))
67
          epochs range = range(epochs)
68
          plotter lib.plot( epochs range, history.history['accuracy'],
69
                           label="Training Accuracy")
          plotter_lib.plot(epochs_range, history.history['val_accuracy'],
70
71
                           label="Validation Accuracy")
72
          plotter lib.axis(ymin=0.4,ymax=1)
73
          plotter_lib.grid()
74
          plotter lib.title('Model Accuracy')
75
          plotter lib.ylabel('Accuracy')
76
          plotter lib.xlabel('Epochs')
77
          plotter lib.legend(['train', 'validation'])
78
79
      def test_on_dataset(self, dataset: Dataset, limit=None):
          # you can upgrade this code if you want to speed up testing using batches
80
81
          predictions = []
82
          n = dataset.n files if not limit else int(dataset.n files * limit)
83
          for i in tqdm(range(n)):
84
              img, label = dataset.image with label(i)
85
              predictions.append(self.test_on_image(img))
86
          return predictions
87
88
      def test_on_image(self, img: np.ndarray):
89
          prediction = self.resnet_model.predict(np.expand_dims(img, axis=0))[0]
90
          return np.argmax(prediction)
```

Классификация изображений

Используя введенные выше классы можем перейти уже непосредственно к обучению модели классификации изображений. Пример общего пайплайна решения задачи приведен ниже. Вы можете его расширять и улучшать. В данном примере используются наборы данных 'train_small' и 'test_small'.

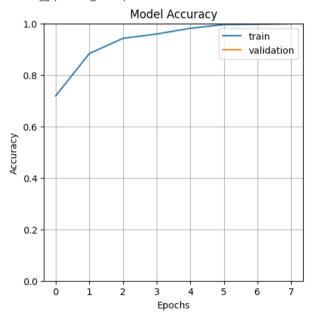
100% | 10.6M/10.6M = 00.00<00.00, 50.7MB/s]Loading dataset test_tiny from npz. Done. Dataset test tiny consists of 90 images.

```
1 model = Model()
2 model.train(d_train_tiny)
```

WARNING:absl:`lr` is deprecated in Keras optimizer, please use `learning_rate` or use the legacy optimizer, e.g.,tf.keras.optimizers.legacy.Adam. training started

```
Epoch 1/8
29/29 [============] - 110s 4s/step - loss: 0.8406 - accuracy: 0.7183 - val_loss: 0.0022 - val_accuracy: 1.0000
29/29 [==========] - 106s 4s/step - loss: 0.3447 - accuracy: 0.8831 - val loss: 0.0012 - val accuracy: 1.0000
Epoch 3/8
29/29 [========== ] - 106s 4s/step - loss: 0.1577 - accuracy: 0.9421 - val loss: 6.3237e-05 - val accuracy: 1.0000
Epoch 4/8
29/29 [========== ] - 107s 4s/step - loss: 0.1203 - accuracy: 0.9588 - val loss: 3.3296e-04 - val accuracy: 1.0000
Epoch 5/8
29/29 [========== ] - 106s 4s/step - loss: 0.0724 - accuracy: 0.9811 - val loss: 1.8716e-05 - val accuracy: 1.0000
Epoch 6/8
29/29 [=========] - 105s 4s/step - loss: 0.0393 - accuracy: 0.9955 - val loss: 9.5963e-06 - val accuracy: 1.0000
Epoch 7/8
29/29 [=========] - 107s 4s/step - loss: 0.0293 - accuracy: 0.9967 - val loss: 1.4245e-05 - val accuracy: 1.0000
Epoch 8/8
training done
```

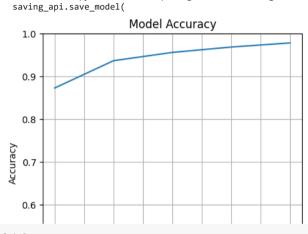
/usr/local/lib/python3.10/dist-packages/keras/src/engine/training.py:3079: UserWarning: You are saving your model as an HDF5 file via `model.save()`. This file format is considered legacy. We recc saving_api.save_model(



```
1 model = Model()
2 model.load('best train tiny')
3
4 # evaluating model on 10% of test dataset
5 pred 1 = model.test on dataset(d test tiny, limit = 0.1)
6 Metrics.print all(d test tiny.labels[:len(pred 1)], pred 1, '10% of test')
   Downloading...
   From: https://drive.google.com/uc?export=download&id=1-evszhdAczAsCC6NoSqRxCOgY1ucCaWW
   To: /content/best train tiny.h5
         107M/107M [00:02<00:00, 53.4MB/s]
   100%
                                         9/9 [00:02<00:00, 5.74it/s]
   1/1 [======] - 0s 120ms/step
   1/1 [======] - 0s 126ms/step
   1/1 [======] - 0s 121ms/step
   1/1 [======] - 0s 130ms/step
   1/1 [======= ] - 0s 127ms/step
   1/1 [======] - 0s 123ms/step
   1/1 [======] - 0s 120ms/step
   1/1 [======] - 0s 129ms/step
   metrics for 10% of test:
           accuracy 0.8889:
           balanced accuracy 0.8889:
   /usr/local/lib/python3.10/dist-packages/sklearn/metrics/ classification.py:2184: UserWarning: y pred contains classes not in y t
     warnings.warn("y pred contains classes not in y true")
1 d_train_small = Dataset('train_small')
2 d test small = Dataset('test small')
   Downloading...
   From: https://drive.google.com/uc?export=download&confirm=pbef&id=11ENg uoR2dHIm4bI0dNl-IkFdMetD-iw
   To: /content/train small.npz
   100%| 841M/841M [00:08<00:00, 93.5MB/s]
   Loading dataset train_small from npz.
   Done. Dataset train small consists of 7200 images.
   Downloading...
   From: https://drive.google.com/uc?export=download&confirm=pbef&id=1XzTOrE0pZL7njuBx9wEMOC8JInSC2iUe
   To: /content/test small.npz
   100% | 211M/211M [00:02<00:00, 90.4MB/s]
   Loading dataset test_small from npz.
   Done. Dataset test_small consists of 1800 images.
1 model = Model()
2 model.train(d_train_small)
```

225/225 [==========] - 859s 4s/step - loss: 0.0683 - accuracy: 0.9776 - val loss: 2.9802e-07 - val accuracy: 1.0000

training done
//usr/local/lib/python3.10/dist-packages/keras/src/engine/training.py:3079: UserWarning: You are saving your model as an HDF5 file via `model.save()`. This file format is considered legacy. We reco



Epoch 5/5

```
1 # @title
2 model = Model()
3 model.load('best_train_small')
4
5 # evaluating model on 10% of test dataset
6 pred_2 = model.test_on_dataset(d_test_small, limit = 0.1)
7 Metrics.print_all(d_test_small.labels[:len(pred_2)], pred_2, '10% of test')
```

Downloading... From: https://drive.google.com/uc?export=download&id=1-iDYVa2CxinJ82482IGt kvOZRDH1Wel To: /content/best train small.h5 107M/107M [00:01<00:00, 75.3MB/s] 100% 180/180 [00:35<00:00. 5.81it/s] 1/1 [======] - 1s 1s/step 1/1 [=======] - 0s 166ms/step 1/1 [=======] - 0s 171ms/step 1/1 [=======] - 0s 168ms/step 1/1 [======] - 0s 179ms/step 1/1 [========] - 0s 176ms/sten 1/1 [=======] - 0s 169ms/step 1/1 [======] - 0s 182ms/step 1/1 [=======] - 0s 175ms/step 1/1 [=======] - 0s 164ms/step 1/1 [=======] - 0s 167ms/step 1/1 [=======] - 0s 167ms/step 1/1 [======] - 0s 129ms/step 1/1 [=======] - 0s 127ms/step 1/1 [======] - 0s 131ms/step 1/1 [=======] - 0s 131ms/step 1/1 [======] - 0s 123ms/step 1/1 [=======] - 0s 126ms/step 1/1 [======] - 0s 133ms/step 1/1 [=======] - 0s 122ms/step 1/1 [=======] - 0s 123ms/step 1/1 [=======] - 0s 124ms/step 1/1 [=======] - 0s 124ms/step 1/1 [=======] - 0s 126ms/step 1/1 [=======] - 0s 123ms/step 1/1 [=======] - 0s 120ms/step 1/1 [=======] - 0s 128ms/step 1/1 [=======] - 0s 124ms/step 1/1 [======] - 0s 126ms/step

1/1 [=======] - 0s 123ms/step 1/1 [=======] - 0s 133ms/step 1/1 [======] - 0s 140ms/step 1/1 [=======] - 0s 121ms/step 1/1 [=======] - 0s 123ms/step 1/1 [=======] - 0s 134ms/step 1/1 [=======] - 0s 128ms/step 1/1 [======] - 0s 125ms/step 1/1 [=======] - 0s 124ms/step 1/1 [=======] - 0s 130ms/step 1/1 [======] - 0s 132ms/step 1/1 [=======] - 0s 127ms/step 1/1 [======] - 0s 125ms/step

	_			
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[======]	-	0s	130ms/step
1/1	[=======]	-	0s	150ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	-	0s	121ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[======]	-	0s	125ms/step
1/1	[======]	-	0s	128ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	133ms/step
1/1	[=======]	-	0s	122ms/step
1/1	[======]	-	0s	122ms/step
1/1	[=======]	-	0s	165ms/step
1/1	[========]	-	0s	176ms/step
1/1	[========]	-	0s	173ms/step
1/1	[=======]	-	0s	172ms/step
1/1	[=======]	-	0s	168ms/step
1/1	[=======]	-	0s	167ms/step
1/1	[=======]	-	0s	173ms/step
1/1	[=======]	-	0s	172ms/step
1/1	[=======]	-	0s	169ms/step
1/1	[=======]	-	0s	166ms/step
1/1	[=======]	-	0s	176ms/step
1/1	[=======]	-	0s	163ms/step
1/1	[========]	-	0s	171ms/step
1/1	[========]	-	0s	178ms/step
1/1 1/1	[=======]	-	0s	178ms/step
1/1	[=======]	-	0s 0s	164ms/step 167ms/step
1/1	[======]	-	0s	165ms/step
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1/1	[======]	_	0s	124ms/step
1/1	[======]	_	0s	129ms/step
1/1	[======]	_	0s	126ms/step
1/1	[======]	_	0s	130ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[======]	-	0s	123ms/step
1/1	[======]	-	0s	119ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[======]	-	0s	127ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[======]	-	0s	124ms/step
1/1	[======]	-	0s	144ms/step
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1/1 [======= ] - 0s 159ms/step
1/1 [======= ] - 0s 131ms/step
1/1 [=======] - 0s 125ms/step
```

¹ d_train = Dataset('train')

² d_test = Dataset('test')

```
Downloading...
    From: https://drive.google.com/uc?export=download&confirm=pbef&id=1xYKk9SxOWouOWGG0-whb07MSBfTcWbgg
    To: /content/train.npz
    100% 2.10G/2.10G [00:41<00:00, 50.9MB/s]
    Loading dataset train from npz.
    Done. Dataset train consists of 18000 images.
    Downloading...
    From: https://drive.google.com/uc?export=download&confirm=pbef&id=1snA9mev5NDmkvj_aoTSp00xwRGGlseml
    To: /content/test.npz
    100%| 525M/525M [00:14<00:00, 37.4MB/s]
    Loading dataset test from npz.
    Done. Dataset test consists of 4500 images.
1 model = Model()
2 model.load('best_train_tiny')
3
4 if TEST_ON_LARGE_DATASET:
     pred_2 = model.test_on_dataset(d_test_tiny)
     Metrics.print_all(d_test_tiny.labels, pred_2, 'test')
```

Downloading... From: https://drive.google.com/uc?export=download&id=1-evszhdAczAsCC6NoSqRxCOaY1ucCaWW To: /content/best train tiny.h5 100% | 107M/107M [00:01<00:00, 101MB/s] 100% 90/90 [00:17<00:00, 5.90it/s] 1/1 [=======] - 1s 904ms/step 1/1 [======] - 0s 131ms/step 1/1 [=======] - 0s 131ms/step 1/1 [=======] - 0s 123ms/step 1/1 [=======] - 0s 128ms/step 1/1 [=======] - 0s 134ms/step 1/1 [========] - 0s 127ms/sten 1/1 [=======] - 0s 124ms/step 1/1 [======] - 0s 132ms/step 1/1 [=======] - 0s 136ms/step 1/1 [======] - 0s 123ms/step 1/1 [=======] - 0s 132ms/step 1/1 [=======] - 0s 127ms/step 1/1 [=======] - 0s 125ms/step 1/1 [======] - 0s 131ms/step 1/1 [======] - 0s 125ms/step 1/1 [=======] - 0s 125ms/step 1/1 [=======] - 0s 128ms/step 1/1 [=======] - 0s 125ms/step 1/1 [=======] - 0s 127ms/step 1/1 [=======] - 0s 124ms/step 1/1 [=======] - 0s 134ms/step 1/1 [=======] - 0s 128ms/step 1/1 [=======] - 0s 126ms/step 1/1 [=======] - 0s 124ms/step 1/1 [=======] - 0s 128ms/step 1/1 [=======] - 0s 186ms/step 1/1 [=======] - 0s 167ms/step 1/1 [======] - 0s 171ms/step 1/1 [=======] - 0s 168ms/step 1/1 [=======] - 0s 174ms/step 1/1 [=======] - 0s 184ms/step 1/1 [=======] - 0s 163ms/step 1/1 [======] - 0s 170ms/step 1/1 [=======] - 0s 173ms/step 1/1 [=======] - 0s 172ms/step 1/1 [======] - 0s 165ms/step 1/1 [=======] - 0s 176ms/step 1/1 [======] - 0s 133ms/step

Downloading... From: https://drive.google.com/uc?export=download&id=1-evszhdAczAsCC6NoSqRxCOaY1ucCaWW To: /content/best train tiny.h5 107M/107M [00:00<00:00, 128MB/s] 100% 100% 1800/1800 [06:15<00:00. 5.65it/s] 1/1 [======] - 1s 822ms/step 1/1 [======] - 0s 125ms/step 1/1 [=======] - 0s 124ms/step 1/1 [=======] - 0s 125ms/step 1/1 [=======] - 0s 167ms/step 1/1 [=======] - 0s 133ms/step 1/1 [========] - 0s 127ms/sten 1/1 [=======] - 0s 131ms/step 1/1 [=======] - 0s 128ms/step 1/1 [=======] - 0s 129ms/step 1/1 [======] - 0s 123ms/step 1/1 [=======] - 0s 133ms/step 1/1 [======] - 0s 130ms/step 1/1 [=======] - 0s 121ms/step 1/1 [======] - 0s 132ms/step 1/1 [======] - 0s 124ms/step 1/1 [=======] - 0s 129ms/step 1/1 [=======] - 0s 134ms/step 1/1 [=======] - 0s 122ms/step 1/1 [=======] - 0s 126ms/step 1/1 [=======] - 0s 125ms/step 1/1 [=======] - 0s 124ms/step 1/1 [======] - 0s 123ms/step 1/1 [=======] - 0s 129ms/step 1/1 [=======] - 0s 124ms/step 1/1 [=======] - 0s 129ms/step 1/1 [======] - 0s 127ms/step 1/1 [=======] - 0s 120ms/step 1/1 [=======] - 0s 126ms/step 1/1 [=======] - 0s 126ms/step 1/1 [======] - 0s 126ms/step 1/1 [=======] - 0s 136ms/step 1/1 [=======] - 0s 176ms/step 1/1 [======] - 0s 195ms/step 1/1 [=======] - 0s 170ms/step 1/1 [=======] - 0s 169ms/step 1/1 [======] - 0s 165ms/step 1/1 [=======] - 0s 170ms/step 1/1 [=======] - 0s 161ms/step

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1/1	[======]	-	0s	168ms/step
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1/1	[========]	-	0s	133ms/step
1/1	[======]	-	0s	168ms/step
1/1	[========]	-	0s	172ms/step
1/1	[=======]	-	0s	165ms/step
1/1	[=========]	-	0s	163ms/step
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1/1	[=======]	-	0s	176ms/step
1/1	[=======]	-	0s	181ms/step
1/1	[=======]	-	0s	165ms/step
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1/1	[=======]	_	0s	126ms/step
1/1	[========]	_	0s	125ms/step
1/1	[=======]	_	0s	130ms/step
1/1	[========]	_	0s	139ms/step
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1/1	[========]	-	0s	136ms/step
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1/1	[=======]	-	0s	167ms/step
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1/1	[=======]	-	0s	164ms/step
1/1	[=======]	-	0s	176ms/step
1/1	[=======]	-	0s	172ms/step
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1/1	[========]	-	0s	125ms/step
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1/1	[=======]	-	ØS	
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1/1	[=======]	-	0s	180ms/step
1/1	[=======]	-	0s	173ms/step
1/1	[======]	-	0s	165ms/step
1/1	[========]	-	0s	158ms/step
1/1	[========]	-	0s	166ms/step
1/1	[=======]	-	0s	166ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	120ms/step
1/1	[]	-	0s	136ms/step
1/1 1/1	[]	-	0s 0s	124ms/step
1/1	[=======]	-	0s	123ms/step 127ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[======]	_	0s	124ms/step
1/1	[=======]	_	0s	130ms/step
1/1	[=======]	_	0s	126ms/step
1/1	[======]	_	0s	132ms/step
1/1	[======]	_	0s	130ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[========]	-	0s	131ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[======]	-	0s	124ms/step
1/1	[======]	-	0s	133ms/step
1/1	[======]	-	0s	121ms/step
1/1	[======]	-	0s	133ms/step
1/1	[========]	-	0s	120ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[]	-	0s	134ms/step
1/1	[]	-	0s	125ms/step
1/1 1/1	[=======]	-	0s 0s	122ms/step
1/1	[========]	-	0S	137ms/step 134ms/step
1/1	[======]	-	0s	123ms/step
1/1	[=======]	_	0s	132ms/step
1/1	[=======]	_	0s	131ms/step
1/1	[======]	_	0s	124ms/step
1/1	[======]	_	0s	127ms/step
1/1	[======]	_	0s	130ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[========]	-	0s	129ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	127ms/step
1/1	[======]	-		136ms/step
1/1	[======]	-		123ms/step
1/1	[=======]	-		128ms/step
1/1	[========]	-		126ms/step
1/1	[=======]	-		140ms/step
1/1	[=======]	-		140ms/step
1/1	[]	-		130ms/step
1/1	[]	-		128ms/step
1/1 1/1	[========]	_		128ms/step 125ms/step
1/1	[1	-		125ms/step

1/1	[======]	-	62	1201115/5 cep
1/1	[=======]	-	0s	139ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[========]	-	0s	170ms/step
1/1	[========]	-	0s	177ms/step
1/1	[=======]	-	0s	172ms/step
1/1	[========]	-	0s	170ms/step
1/1	[=======]	-	0s	169ms/step
1/1	[======================================	-	0s	160ms/step
1/1	[=======]	-	0s	162ms/step
1/1 1/1	[]	-	0s 0s	168ms/step 167ms/step
1/1	[=======]	_	0s	164ms/step
1/1	[=======]	_	0s	172ms/step
1/1	[=======]	_	0s	193ms/step
1/1	[=======]	_	0s	171ms/step
1/1	[=======]	_	0s	175ms/step
1/1	[=======]	_	0s	162ms/step
1/1	[=======]	_	0s	181ms/step
1/1	[=======]	_	0s	179ms/step
1/1	[=======]	-	0s	166ms/step
1/1	[=======]	-	0s	165ms/step
1/1	[=========]	-	0s	169ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[]	-	0s	120ms/step
1/1	[]	-	0s	125ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	121ms/step
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1/1	[=======]	_	0s	125ms/step
1/1	[=======]	_	0s	130ms/step
1/1	[========]	_	0s	128ms/step
1/1	[=======]	_	0s	122ms/step
1/1	[=======]	_	0s	126ms/step
1/1	[=======]	_	0s	124ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[======]	-	0s	127ms/step
1/1	[======]	-	0s	123ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	125ms/step
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1/1				125ms/step
1/1	-			123ms/step
1/1	[]			124ms/step
1/1 1/1	[=========]			134ms/step 133ms/step
1/1				166ms/step
1/1	[=======]			176ms/step
1/1	[=======]			167ms/step
1/1				160ms/step
1/1	[=======]			169ms/step
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1/1	[=======]	-	0s	133ms/step
1/1	[======]	-	0s	154ms/step
1/1	[======]	-	0s	164ms/step
1/1	[======]	-	0s	182ms/step
1/1	[======]	-	0s	184ms/step
1/1	[======]	-	0s	172ms/step
1/1	[======]	-	0s	205ms/step
1/1	[]	-	0s	253ms/step
1/1	[=======]	-	0s	263ms/step
1/1	[======]	-	0s	236ms/step
1/1	[=======]	-	0s	322ms/step
1/1	[======]	-	0s	308ms/step
1/1	[======]	-	0s	329ms/step
1/1	[======]	-	0s	364ms/step
1/1	[======]	-	0s	356ms/step
1/1	[======]	-	1s	572ms/step
1/1	[======]	-	1s	554ms/step
1/1	[======]	-	0s	304ms/step
1/1	[======]	-	0s	298ms/step
1/1	[======]	_	0s	243ms/step
1/1	[======]	-	0s	206ms/step
1/1	[=======]	_	0s	189ms/step
1/1	[=======]	-	0s	409ms/step
1/1	[=======]	-	0s	281ms/step
1/1	[======]	_	0s	278ms/step
1/1	[=======]	_	0s	200ms/step
1/1	[=======]	_	0s	290ms/step
1/1	[======]	_	0s	185ms/step
1/1	[======]	_	0s	286ms/step
1/1	[======]	_	0s	270ms/step
1/1	[======]	_	0s	216ms/step
1/1	[======]	_	0s	222ms/step
1/1	[======]	_	0s	207ms/step
1/1	[======]	_	0s	242ms/step
1/1	[======]	_	0s	202ms/step
1/1	[========]	_	0s	144ms/step
1/1	[======]	_	0s	167ms/step
1/1	[======]	_	0s	188ms/step
1/1	[======]	_	0s	127ms/step
1/1	[=======]	_	0s	180ms/step
1/1	[======]	_	0s	191ms/step
1/1	[======]	_	0s	178ms/step
1/1	[======]		0s	169ms/step
1/1	[======]	_	0s	187ms/step
1/1	[======]	_	0s	213ms/step
1/1	[========]	_	0s	261ms/step
1/1	[========]	_	0s	272ms/step
1/1	[======]	_	0s	333ms/step
1/1	[======]	_	0s	254ms/step
1/1	[======]	_	0s	246ms/step
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1/1	[=========]		0s	416ms/step
1/1	[========]	-	0s	326ms/step
1/1	[=========]	-	0s	301ms/step
1/1	[========]	-	0s	305ms/step
1/1	[========]	-	0s	222ms/step
1/1	[========]	-	0s	182ms/step
1/1	[========]	-	0s	250ms/step
1/1	[========]		0s	353ms/step
1/1	[=======]		0s	247ms/step
1/1	[========]		0s	264ms/step
1/1	[========]		0s	255ms/step
1/1	[=========]		0s	250ms/step
1/1	[========]			
•	-		0s	223ms/step
1/1	[=========		0s	185ms/step
1/1	[======================================		0s	174ms/step
1/1	[=========]		0s	177ms/step
1/1	[=======]	-	0s	170ms/step
1/1	[========]	-	0s	195ms/step
1/1	[======================================	-	0s	184ms/step
1/1	[========]	-	0s	186ms/step
1/1	[========]	-	0s	173ms/step
1/1	[========]	-	0s	200ms/step
1/1	[========]		0s	196ms/step
1/1	[========]		0s	189ms/step
1/1	[========]		0s	199ms/step
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•	[=========		0s	210ms/step
1/1	[=========]		0s	170ms/step
1/1	[========		0s	177ms/step
1/1	[======================================		0s	187ms/step
1/1	[======================================		0s	179ms/step
1/1	[=======]	-	0s	166ms/step
1/1	[========]	-	0s	132ms/step
1/1	[========]	-	0s	131ms/step
1/1	[========]	-	0s	136ms/step
1/1	[========]	-	0s	132ms/step
1/1	[=======]	-	0s	224ms/step
1/1	[=========]	-	0s	281ms/step
1/1	[========]	-	0s	257ms/step
1/1	[=========]		0s	277ms/step
1/1	[=======]		0s	328ms/step
	[========]			334ms/step
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1/1	[=========		0s	353ms/step
1/1	[=========		0s	310ms/step
1/1	[======================================		0s	248ms/step
1/1	[======================================		0s	175ms/step
1/1	[=======]	-	0s	319ms/step
1/1	[=======]	-	0s	335ms/step
1/1	[=========]	-	0s	422ms/step
1/1	[========]	-	0s	344ms/step
1/1	[========]	-	0s	388ms/step
1/1	[======================================		0s	253ms/step
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1/1	[======]	-	ØS	∠10ms/step

1/1	[=======]	-	0s	247ms/step
1/1	[======]	_	0s	175ms/step
1/1	[======]	_	0s	248ms/step
1/1	[======]	_	0s	292ms/step
1/1	[=======]	_	0s	253ms/step
1/1	[=======]	_	0s	205ms/step
1/1	[======]	_	0s	292ms/step
1/1	[=========]	_	0s	142ms/step
1/1	[=========]	_	0s	178ms/step
1/1	[======]	_	0s	174ms/step
1/1	[======]	_	0s	172ms/step
1/1	[=========]	_	0s	205ms/step
1/1	[======]	_	0s	165ms/step
1/1	[=======]	_	0s	169ms/step
1/1	[=======]	_	0s	128ms/step
1/1	[======]	_	0s	134ms/step
1/1	[=========]	_	0s	128ms/step
1/1	[========]	_	0s	131ms/step
1/1	[=======]	_	0s	123ms/step
1/1	[=======]	_	0s	182ms/step
1/1	[======]	_	0s	347ms/step
1/1	[=======]	_	0s	430ms/step
1/1	[=======]	_	0s	375ms/step
1/1	[======]	_	0s	463ms/step
1/1	[=======]	_	0s	342ms/step
1/1	[=======]	_	0s	351ms/step
1/1	[======]	_	0s	398ms/step
1/1	[======]	_	0s	287ms/step
1/1	[======]	_	0s	214ms/step
1/1	[=======]	_	0s	361ms/step
1/1	[=======]	-	0s	263ms/step
1/1	[======]	-	0s	177ms/step
1/1	[======]	-	0s	196ms/step
1/1	[======]	-	0s	227ms/step
1/1	[======]	-	0s	162ms/step
1/1	[======]	-	0s	189ms/step
1/1	[======]	-	0s	125ms/step
1/1	[======]	-	0s	156ms/step
1/1	[======]	-	0s	189ms/step
1/1	[======]	-	0s	175ms/step
1/1	[======]	-	0s	167ms/step
1/1	[======]	-	0s	184ms/step
1/1	[======]	-	0s	204ms/step
1/1	[======]	-	0s	170ms/step
1/1	[=======]	-	0s	168ms/step
1/1	[======]	-	0s	168ms/step
1/1	[=======]	-	0s	173ms/step
1/1	[=======]	-	0s	185ms/step
1/1	[=======]	-	0s	165ms/step
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1/1	[======]	-	0s	203ms/step
1/1	[======]	-	0s	187ms/step
1/1	[=======]	-	0s	177ms/step
1/1	[=======]	-	0s	190ms/step
1/1	[=======]	-	0s	222ms/step
1/1	[=======]	-	0s	183ms/step
1/1	[=======]	-	0s	194ms/step
1/1	[========]	-	0s	225ms/step
1/1	[======]	-	0s	268ms/step
1/1	[=======]	-	0s	285ms/step
1/1	[=======]	-	0s	207ms/step
1/1	[=======]	-	0s	384ms/step
1/1	[=======]	-	0s	423ms/step
1/1	[======]	-	0s	347ms/step
1/1	[=======]	-	0s	351ms/step
1/1	[=======]	-	0s	303ms/step
1/1	[======]	-	0s	373ms/step
1/1	[=======]	-	0s	325ms/step
1/1	[=======]	-	1s	601ms/step
1/1	[=======]	-	0s	203ms/step
1/1	[=======]	-	0s	177ms/step
1/1	[=======]	-	0s	172ms/step
1/1	[=======]	-	0s	182ms/step
1/1	[=======]	-	0s	175ms/step
1/1	[=======]	-	0s	166ms/step
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1/1	[=======]	-	0s	126ms/step
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1/1 [=======]	-	0s	179ms/step
1/1 [=======]	-	0s	175ms/step
1/1 [=======]	-	0s	179ms/step
1/1 [=======]	-	0s	167ms/step
1/1 [=======]	-	0s	171ms/step
1/1 [=======]	-	0s	175ms/step
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1/1 [=======]	-	0s	166ms/step
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1/1 [========]	-	0s	178ms/step
1/1 [==========]	-	0s	209ms/step
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1/1 [=======]	-	0s	124ms/step
1/1 [=======]	-	0s	124ms/step
1/1 [========]	-	0s	132ms/step
1/1 [=======]	-	0s	130ms/step
1/1 [========]	-	0s	137ms/step
1/1 [=======]	-	0s	131ms/step
1/1 [=======]	-	0s	126ms/step
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1/1 [=======]	-	0s	136ms/step
1/1 [=======]	-	0s	128ms/step
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1/1 [=======]	-	0s	160ms/step
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1/1 [=======]	-	0s	170ms/step
1/1 [======]	-	0s	169ms/step
1/1 [======]	-	0s	183ms/step
1/1 [======]	-	0s	168ms/step
1/1 [=======]			
1/1 [======]	-	0s	177ms/step
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1/1 [=======]	-	0s	124ms/step
1/1 [========]	-	0s	139ms/step
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1/1	[======]	-	0s	139ms/step
1/1	[======================================	-	0s	128ms/step
1/1	[]	-	0s	136ms/step
1/1	[]		0s	133ms/step
1/1	[======================================	-	0s	125ms/step
1/1	[======================================	-	0s	137ms/step
1/1	[=======]	-	0s	139ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[======================================	-	0s	138ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[======================================	-	0s	127ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[======================================	-	0s	121ms/step
1/1	[]	-	0s	125ms/step
1/1	[======================================	-	0s	128ms/step
1/1	[]		0s	125ms/step
1/1	[=======]		0s	135ms/step
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1/1	[]		0s	130ms/step
1/1	[]		0s	123ms/step
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1/1	[]		0s	140ms/step
1/1	[======================================		0s	144ms/step
1/1	[========]	-	0s	166ms/step
1/1	[======================================		0s	163ms/step
1/1	[======================================		0s	169ms/step
1/1	[======================================		0s	171ms/step
1/1	[======================================		0s	160ms/step
1/1	[======================================		0s	188ms/step
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, T/T	[======]	_	- 20	135ms/step

1/1	[======]	-	0s	127ms/step
1/1	[======]	-	0s	127ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[========]	-	0s	126ms/step
1/1	[=======]	_	0s	133ms/step
1/1	[======]	_	0s	130ms/step
1/1	[=======]	_	0s	132ms/step
1/1	[=======]	_	0s	130ms/step
1/1	[=======]	_	0s	130ms/step
1/1	[======]	_	0s	131ms/step
1/1	[======]	_	0s	130ms/step
1/1	[======]	_	0s	125ms/step
1/1	[=======]	_	0s	125ms/step
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1/1	[]	-	0s	127ms/step
1/1	[========]	-	0s	130ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	-	0s	139ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[========]	-	0s	131ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[======]	-	0s	134ms/step
1/1	[======]	-	0s	123ms/step
1/1	[=======]	-	0s	120ms/step
1/1	[======]	-	0s	123ms/step
1/1	[======]	-	0s	123ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[======]	-	0s	130ms/step
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1/1	[=======]	_	0s	129ms/step
1/1	[=======]	_	0s	134ms/step
1/1	[=======]	_	0s	127ms/step
1/1	[======]	_	0s	132ms/step
1/1	[=======]	_	0s	129ms/step
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1/1	[======]	_	0s	139ms/step
1/1	[======]	_	0s	122ms/step
1/1	[======]	_	0s	147ms/step
1/1	[======]	_	0s	168ms/step
1/1	[======]	_	0s	162ms/step
1/1	[======]		0s	174ms/step
1/1	1 1	-	0s	174ms/step
1/1	[=======]	_	0s	170ms/step
		_		161ms/step
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1/1	[======]	-	0s	180ms/step
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1/1	[=======]	-		1/1ms/step
1/1	[========]	-	0s	168ms/step
1/1	[=======]	-	0s	145ms/step
1/1	[========]	-	0s	131ms/step
1/1	[========]	-	0s	126ms/step
1/1	[========]	-	0s	122ms/step
1/1	[=======]	-	0s	295ms/step
1/1	[=========]	-	0s	192ms/step
1/1	[=======]	-	0s	119ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	124ms/step
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1/1	[=======]	_	0s	126ms/step
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1/1	[=======]	_	0s	126ms/step
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1/1	[========]	-	0s	126ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	-	0s	132ms/step
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1/1	[=======]	-		134ms/step
1/1	[=======]	-		181ms/step
1/1	[=======]	-		170ms/step
1/1	[=======]			172ms/step
1/1	[=======]	-	0s	175ms/step
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1/1	[]	-	05	171ms/step
1/1	[========]	-	0s	171ms/step
1/1	[=======]	-	0s	173ms/step
1/1	[========]	-	0s	166ms/step
1/1	[=======]	-	0s	172ms/step
1/1	[========]	-	0s	167ms/step
1/1	[======]	-	0s	169ms/step
1/1	[======]	-	0s	163ms/step
1/1	[]	-	0s	174ms/step
1/1	[======]	-	0s	126ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[======]	-	0s	134ms/step
1/1	[=======]	-	0s	134ms/step
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1/1	[======]	-	0s	127ms/step
1/1	[======]	-	0s	137ms/step
1/1	[=======]	_	0s	125ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[=======]	_	0s	122ms/step
1/1	[========]	_	0s	122ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[=======]	_	0s	123ms/step
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1/1	[=======]	-	0s	122ms/step
1/1	[=======]	-	0s	120ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	170ms/step
1/1	[=======]	-	0s	168ms/step
1/1	[=======]	-	0s	179ms/step
1/1	[========]	-	0s	178ms/step
1/1	[=======]	-	0s	160ms/step
1/1	[=======]	-	0s	162ms/step
1/1	[========]	-	0s	184ms/step
1/1	[=======]	-	0s	172ms/step
1/1	[=======]	-	0s	165ms/step
1/1	[=======]	-	0s	172ms/step
1/1	[=======]	-	0s	175ms/step
1/1	[========]	-	0s	168ms/step
1/1	[=======]	-	0s	173ms/step
1/1	[=======]	-	0s	176ms/step
1/1	[=======]	-	0s	169ms/step
1/1	[=======]	-	0s	172ms/step
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1/1	[=======]	-	0s	123ms/step
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1/1	[=======]	-	0s	161ms/step
1/1	[=======]	-	0s	178ms/step
1/1	[======]	-	0s	174ms/step
1/1	[======]	-	0s	170ms/step
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1/1	[========]	-	0s	169ms/step
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1/1	[]	-	0s	174ms/step
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1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	143ms/step
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1/1	[=======]	-	0s	127ms/step
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1/1	[=======]	-	0s	128ms/step
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1/1	[======]	-	0s	120ms/step
1/1	[======]	-	0s	133ms/step
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1/1	[======]	-	0s	134ms/step
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	[=======]	-		122ms/step
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	[======]	-		175ms/step
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	[=======]	-		187ms/step
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٠.	[=======]			167ms/step
	[======]	_		177ms/step
	[=======]	_		169ms/step
	[=======]	_	0s	172ms/step
	[========]	-	0s	167ms/step
1/1	[=======]	-	0s	176ms/step
1/1	[=======]	-	0s	130ms/step
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1/1	[=======]	-	0s	139ms/step
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1/1	[======]	-	0s	133ms/step
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1/1	[======]	-	0s	122ms/step
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1/1	[======]	-	0s	169ms/step
1/1	[=====]	-	0s	163ms/step
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1/1	[=======]	-	0s	194ms/step
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1/1	[=======]	-	0s	165ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[========]	-	0s	122ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[==========] r	-	0s	134ms/step
1/1 1/1	[=======]	-	0s 0s	131ms/step 131ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[]	_	0s	127ms/step
1/1	[========]	_	0s	125ms/step
1/1	[=======]	_	0s	126ms/step
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1/1	[=======]	_	0s	136ms/step
1/1	[======]	_	0s	124ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	-	0s	123ms/step
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1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	124ms/step
1/1	[======]	-	0s	124ms/step
1/1	[======]	-	0s	127ms/step
1/1	[=========]	-	0s	130ms/step
1/1	[=======]	-	0s	129ms/step
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1/1	[=======]	-	0s	136ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	-	0s	133ms/step
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1/1	[=====]	-	62	1731112/2 CEb

1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	174ms/step
1/1	[======]	-	0s	172ms/step
1/1	[=======]	-	0s	180ms/step
1/1	[======]	-	0s	165ms/step
1/1	[=======]	-	0s	181ms/step
1/1	[======]	-	0s	170ms/step
1/1	[=======]	-	0s	174ms/step
1/1	[======]	-	0s	172ms/step
1/1	[======]	-	0s	174ms/step
1/1	[=======]	-	0s	171ms/step
1/1	[=======]	-	0s	166ms/step
1/1	[=======]	_	0s	170ms/step
1/1	[=======]	_	0s	190ms/step
1/1	[=======]	_	0s	170ms/step
1/1	[=======]	_	0s	173ms/step
1/1	[=======]	_	0s	167ms/step
1/1	[======]	_	0s	176ms/step
1/1	[======]	_	0s	178ms/step
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1/1	[======]	_	0s	129ms/step
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1/1	[======]	-	0s	130ms/step
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1/1	[======]	-	0s	131ms/step
1/1	[=======]	-	0s	140ms/step
1/1	[======]	-	0s	131ms/step
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1/1	[======]	-	0s	136ms/step
1/1	[======]	-	0s	135ms/step
1/1	[======]	-	0s	126ms/step
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1/1	[=======]	-		132ms/step
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٠.	[=======]	_	-	
1/1 1/1	[======]	_	0s	171ms/step
1/1	[======]	_	0s	163ms/step
1/1	[=======]	_	_	
1/1	[======]	_		
1/1	[======]	_	0s	161ms/step
1/1	[======]	_	0s	
1/1	[======]	_	0s	175ms/step
1/1	[=======]	_	_	
1/1	[=======]	-	_	163ms/step
1/1	[=======]	-	0s	182ms/step
1/1	[=======]	-	0s	174ms/step
1/1	[======]	-	0s	171ms/step
1/1	[======]	-	0s	165ms/step
1/1	[======]	-	0s	182ms/step
1/1	[======]	-	0s	181ms/step
1/1	[======]	-	0s	170ms/step
1/1	[======]	-	0s	178ms/step
1/1	[======]	-	0s	165ms/step
1/1	[=======]	-	0s	171ms/step
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1/1	[=======]	-	0s	
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[======]	-	0s	122ms/step
1/1	[======]	-	0s	138ms/step
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1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	123ms/step
1/1	[======]	-	0s	123ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	133ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	144ms/step
1/1	[======]	-	0s	299ms/step
1/1	[======]	-	0s	149ms/step
1/1	[======]	-	0s	133ms/step
1/1	[======]	-	0s	123ms/step
1/1	[=======]	-	0s	120ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	134ms/step
1/1	[======]	-	0s	122ms/step
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1/1	[======]	-	0s	125ms/step
1/1	[======]	-	0s	127ms/step
1/1	[======]	-	0s	130ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[======]	-	0s	122ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	130ms/step
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1/1	[=======]	-	0s	128ms/step
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1/1	[=======]	-	0s	172ms/step
1/1	[=======]	-	0s	176ms/step
1/1	[=======]	-	0s	170ms/step
1/1	[=======]	-	0s	178ms/step
1/1	[=======]	-	0s	184ms/step
1/1	[=======]	-	0s	182ms/step
1/1	[=======]	-	0s	167ms/step
1/1	[=======]	-	0s	163ms/step
1/1	[======]	-	0s	167ms/step
1/1	[======]	-	0s	171ms/step
1/1	[======]	-	0s	175ms/step
1/1	[======]	-	0s	172ms/step
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1/1	[======]	-	0s	174ms/step
1/1	[======]	-	0s	175ms/step
1/1	[======]	-	0s	164ms/step
1/1	[=======]	-	0s	164ms/step
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1/1	[======]	-	0s	179ms/step
1/1	[======]	-	0s	175ms/step
1/1	[======]	-	0s	123ms/step
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4 /4			^	434 / 1

1/1	[======]	-	ØS.	121ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	-	0s	141ms/step
1/1	[=======]	-	0s	120ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	122ms/step
1/1	[=======]	-	0s	131ms/step
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1/1	[=======]	-	0s	142ms/step
1/1	[=======]	-	0s	127ms/step
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1/1	[======]	-	0s	187ms/step
1/1	[=======]	-	0s	171ms/step
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1/1	[======]	-	0s	172ms/step
1/1	[======]	-	0s	196ms/step
1/1	[=======]	-	0s	164ms/step
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1/1	[=========]	-	0s	129ms/step
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1/1	[======]	-	0s	123ms/step
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1/1	[=======]	_	0s	176ms/step
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1/1	[=======]	-	0s	173ms/step
1/1	[=======]	-	0s	166ms/step
1/1	[=======]	-	0s	162ms/step
1/1	[=======]	-	0s	170ms/step
1/1	[=======]	-	0s	172ms/step
1/1	[=======]	-	0s	201ms/step
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1/1	[=======]	-	0s	163ms/step
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1/1	[======]	_	0s	172ms/step
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1/1	[=======]	_	0s	129ms/step
1/1	[=======]	_	0s	131ms/step
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1/1	[=======]	-	0s	129ms/step
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1/1	[=======]	_	0s	122ms/step
1/1	[=======]	-	0s	122ms/step
1/1	[=======]	-	0s	127ms/step
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1/1	[========]			

```
1 model = Model()
2 model.load('best_train_tiny')
3
4 if TEST_ON_LARGE_DATASET:
5     pred_2 = model.test_on_dataset(d_test)
6     Metrics.print_all(d_test.labels, pred_2, 'test')
```

Downloading... From: https://drive.google.com/uc?export=download&id=1-evszhdAczAsCC6NoSqRxCOaY1ucCaWW To: /content/best train tiny.h5 100% 107M/107M [00:01<00:00, 73.1MB/s] 100% 4500/4500 [15:13<00:00. 5.21it/s] 1/1 [======] - 1s 887ms/step 1/1 [======] - 0s 129ms/step 1/1 [=======] - 0s 124ms/step 1/1 [=======] - 0s 134ms/step 1/1 [======] - 0s 126ms/step 1/1 [======] - 0s 129ms/step 1/1 [========] - 0s 132ms/sten 1/1 [=======] - 0s 125ms/step 1/1 [=======] - 0s 130ms/step 1/1 [======] - 0s 129ms/step 1/1 [======] - 0s 127ms/step 1/1 [=======] - 0s 124ms/step 1/1 [=======] - 0s 169ms/step 1/1 [======] - 0s 167ms/step 1/1 [=======] - 0s 180ms/step 1/1 [======] - 0s 167ms/step 1/1 [=======] - 0s 171ms/step 1/1 [======] - 0s 173ms/step 1/1 [=======] - 0s 174ms/step 1/1 [=======] - 0s 176ms/step 1/1 [=======] - 0s 175ms/step 1/1 [=======] - 0s 171ms/step 1/1 [=======] - 0s 169ms/step 1/1 [=======] - 0s 173ms/step 1/1 [=======] - 0s 168ms/step 1/1 [=======] - 0s 128ms/step 1/1 [=======] - 0s 127ms/step 1/1 [=======] - 0s 136ms/step 1/1 [=======] - 0s 129ms/step 1/1 [======] - 0s 126ms/step 1/1 [=======] - 0s 140ms/step 1/1 [=======] - 0s 135ms/step 1/1 [======] - 0s 128ms/step 1/1 [=======] - 0s 138ms/step 1/1 [=======] - 0s 136ms/step 1/1 [======] - 0s 124ms/step 1/1 [=======] - 0s 128ms/step 1/1 [=======] - 0s 125ms/step

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1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[======]	-	0s	127ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	129ms/step
1/1	[=======]	-	0s	138ms/step
1/1	[=======]	-		130ms/step
1/1	[=======]	_	0s	
1/1	[======]	_	0 s	124ms/step
1/1	[=======]	-		128ms/step
1/1	[======]	_	0s	139ms/step
1/1	[=======]	-	0s	
1/1	[=======]	_	0s	127ms/step
1/1	[=======]	_		130ms/step
1/1	[=======]	_	0s	136ms/step
1/1	[=======]	_		139ms/step
1/1	[=======]	_		133ms/step
1/1	[=======]	_	0s	
1/1	[=======]	_		130ms/step
1/1	[======]	_	0s	
1/1	[=======]	_	0s	
1/1	[=======]	_	0s	
1/1	[======]	_	0s	
· .	[======]	-	0s	137ms/step 126ms/step
1/1		-		
1/1	[========]	-		127ms/step
1/1	[]	-	0s	126ms/step
1/1	[======================================	-		127ms/step
1/1	[======================================	-		129ms/step
1/1	[========]	-	0s	
1/1	[=======]	-		129ms/step
1/1	[=======]	-		133ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	-	0s	
1/1	[=======]	-	0s	139ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	178ms/step
1/1	[=======]	-		173ms/step
1/1	[=======]	-		169ms/step
1/1	[=======]	-	0s	175ms/step
1/1	[=======]	-	0s	
1/1	[=======]	-	0s	167ms/step
1/1	[=======]	-	0s	F
1/1	[=======]	-		176ms/step
1/1	[=======]	-		175ms/step
1/1	[=======]	-		166ms/step
1/1	[=======]	-		160ms/step
1/1	[=======]	-	0s	174ms/step
1/1	[=======]	-	0s	166ms/step
	[=======]			167ms/step
	[=======]			
	[]			
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1/1	[======]	-	۷S	126ms/step

1 /1			0-	120/
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[========]	-	0s	133ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	122ms/step
1/1	[========]	-	0s	133ms/step
1/1	[=======]	-	0s	131ms/step
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1/1	[]	-	0s	129ms/step
1/1 1/1	[]	-	0s	127ms/step 132ms/step
1/1	[]	-	0s 0s	129ms/step
1/1	[]	-	0s	126ms/step
1/1	[]	_	0s	133ms/step
1/1	[=======]	_	0s	127ms/step
1/1	[=======]	_	0s	122ms/step
1/1	[=======]	_	0s	123ms/step
1/1	[========]	_	0s	126ms/step
1/1	[=======]	_	0s	124ms/step
1/1	[=======]	_	0s	128ms/step
1/1	[=======]	_	0s	128ms/step
1/1	[======]	_	0s	126ms/step
1/1	[=======]	_	0s	130ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=========]	-	0s	125ms/step
1/1	[=========]	-	0s	126ms/step
1/1	[======]	-	0s	137ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	128ms/step
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1/1	[======]	-	0s	132ms/step
1/1	[========]	-	0s	138ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[========]	-	0s	123ms/step
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1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[======]	-	0s	134ms/step
1/1	[]	-	0s	126ms/step
1/1 1/1	[=======]	-	0s 0s	122ms/step
1/1	[======]	-	0s	126ms/step 126ms/step
1/1	[========]	_	0s	128ms/step
1/1	[=======]	_	0s	135ms/step
1/1	[======]	_	0s	183ms/step
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1/1	[======]	-	0s	177ms/step

	[=======]			177ms/step
	[======]	-		162ms/step
1/1	[=======]	-	0s	173ms/step
1/1	[======]	-	0s	168ms/step
1/1	[=======]	-	0s	168ms/step
1/1	[=======]	-	0s	177ms/step
1/1	[======]	-	0s	124ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[=======]	-	0s	139ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[======]	-	0s	130ms/step
1/1	[]	-	0s	129ms/step
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1/1	[======]	-	0s 0s	138ms/step 133ms/step
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1/1	[=======]	-	0s	135ms/step
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1/1	[======]	_	0s	136ms/step
1/1	[======]	_	0s	138ms/step
1/1	[======]	_	0s	127ms/step
1/1	[=======]	_	0s	127ms/step
1/1	[=======]	_	0s	144ms/step
1/1	[=======]	_	0s	133ms/step
1/1	[=======]	_	0s	125ms/step
1/1	[======]	_	0s	129ms/step
1/1	[=======]	_	0s	121ms/step
1/1	[======]	_	0s	133ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[=======]	_	0s	
1/1	[========]	-	0s	131ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	125ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	123ms/step
1/1	[======]	-	0s	131ms/step
1/1	[]	-	0s	121ms/step
1/1	[]	-	0s	130ms/step
1/1	[]	-	0s	135ms/step
1/1	[======]	-	0s	130ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[======]	-	0s	127ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]			136ms/step
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1/1 [=======]	-	0s	134ms/step
1/1 [======]	-	0s	125ms/step
1/1 [======]	-	0s	169ms/step
1/1 [========]	-	0s	163ms/step
1/1 [=======]	-	0s	165ms/step
1/1 [=======]	-	0s	181ms/step
1/1 [======]	-	0s	183ms/step
1/1 [======]	-	0s	171ms/step
1/1 [=======]	-	0s	171ms/step
1/1 [=======]	-	0s	186ms/step
1/1 [=======]	-	0s	188ms/step
1/1 [=======]	-	0s	179ms/step
1/1 [=======]	-	0s	169ms/step
1/1 [========]	-	0s	171ms/step
1/1 [========]	-	0s	176ms/step
1/1 [=========]	-	0s	176ms/step
1/1 [========]	-	0s	169ms/step
1/1 []	-	0s	170ms/step
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1/1 [=======] 1/1 [========]	_	0s 0s	122ms/step 135ms/step
1/1 []	-	0s	132ms/step
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1/1 [========]	_	0s	122ms/step
1/1 [========]	_	0s	131ms/step
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1/1 [===================================	_	0s	126ms/step
1/1 [===================================	_	0s	129ms/step
1/1 [=======]	_	0s	127ms/step
1/1 [=======]	_	0s	128ms/step
1/1 [=======]	_	0s	130ms/step
1/1 [=======]	_	0s	127ms/step
1/1 [=======]	-	0s	133ms/step
1/1 [========]	-	0s	131ms/step
1/1 [=======]	-	0s	126ms/step
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1/1 [======]	-	0s	129ms/step
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1/1 [=======]	-	0s	142ms/step
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1/1 [========]	-		129ms/step
1/1 [========]	-		122ms/step
1/1 [========]	-		131ms/step
1/1 [========]	-		123ms/step
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1/1 [========]	-		124ms/step
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			_	400 ()
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1/1	[======]	_		131ms/step
٠.	: :	_		
1/1	[]	_	0s	132ms/step
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1/1	[========]	-	0s	- , F
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	
1/1	[=======]	-	0s	
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	121ms/step
1/1	[=======]	-	0s	
1/1	[=======]	-	0s	128ms/step
1/1	[========]	-	0s	144ms/step
1/1	[========]	-	0s	171ms/step
1/1	[======]	-	0s	169ms/step
1/1	[======]	-	0s	179ms/step
1/1	[=======]	-	0s	173ms/step
1/1	[=======]	-	0s	171ms/step
1/1	[=======]	-	0s	166ms/step
1/1	[======]	-	0s	170ms/step
1/1	[=======]	-	0s	183ms/step
1/1	[======]	-	0s	169ms/step
1/1	[=======]	-	0s	168ms/step
1/1	[=======]	-	0s	165ms/step
1/1	[=======]	-	0s	185ms/step
1/1	[======]	-	0s	172ms/step
1/1	[=======]	-	0s	171ms/step
1/1	[=======]	-	0s	174ms/step
1/1	[======]	-	0s	170ms/step
1/1	[=======]	-	0s	170ms/step
1/1	[======]	_	0s	
1/1	[=======]	_	0s	
1/1	[=======]	-	0s	132ms/step
1/1	[======]	_	0s	
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1/1	[======]	_	0s	
1/1	[======]	_		128ms/step
1/1	[======]	_		143ms/step
1/1	[=======]	_		134ms/step
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1/1	[======]	_		135ms/step
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L/1	<u> </u>			
	[]			128ms/step
	[]			128ms/step
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1/1	[=======]	-	ØS	
1/1	[=======]	-	0s	129ms/step
1/1	[======]	-	0s	127ms/step
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1/1	[=======]	-	0s	126ms/step
1/1	[======]	-	0s	136ms/step
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1/1	[=======]	-	0s	137ms/step
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1/1	[=======]	-	0s	129ms/step
1/1	[=======]	_	0s	129ms/step
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1/1	[=======]	_	0s	134ms/step
1/1	[=======]	_	0s	125ms/step
1/1	[======]	_	0s	125ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[======]	-	0s	123ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[========]	-	0s	141ms/step
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1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	149ms/step
1/1	[======]	-	0s	172ms/step
1/1	[=======]	-	0s	162ms/step
1/1	[=======]	-	0s	167ms/step
1/1	[=======]	-	0s	169ms/step
1/1	[=======]	-	0s	173ms/step
1/1	[=======]	-	0s	173ms/step
1/1 1/1	[=======]	-	0s 0s	171ms/step
1/1	[]	-	0S	166ms/step 181ms/step
1/1	[======]	_	0s	173ms/step
1/1	[======]	_	0s	171ms/step
1/1	[=======]	_	0s	179ms/step
1/1	[======]	_	0s	175ms/step
1/1	[=======]	-	0s	165ms/step
1/1	[=======]	-	0s	178ms/step
1/1	[=======]	-	0s	163ms/step
1/1	[======]	-	0s	148ms/step
1/1	[======]	-	0s	123ms/step
1/1	[======]	-	0s	128ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[======]	-	0s	130ms/step
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1/1	[=======]			127ms/step
1/1	[=======]	_		125ms/step
1/1	[======]	_		126ms/step
1/1	[======]	-	0s	133ms/step
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1/1	[]	-	20	Tooms/sceh
1/1	[========]	-	0s	129ms/step
1/1	[========]	-	0s	133ms/step
1/1	[========]	-	0s	129ms/step
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1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	144ms/step
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1/1	[]	-		130ms/step
1/1	[=======]	-	0s 0s	138ms/step
1/1	[=======]	_	0s	130ms/step
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1/1	[========]	_	0s	130ms/step
1/1	[=======]	_	0s	130ms/step
1/1	[=======]	_	0s	133ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[======]	-	0s	129ms/step
1/1	[=======]	-	0s	127ms/step
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1/1	[=======]	-	0s	130ms/step
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1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	127ms/step
1/1	[========]	-	0s	126ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	126ms/step
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1/1	[======]	-		134ms/step
1/1	[========]	_	0s 0s	153ms/step
1/1	[=======]	_	0s	176ms/step
1/1	[]	_	0s	170ms/step
1/1	[=======]	_	0s	170ms/step
1/1	[=======]	_	0s	172ms/step
1/1	[=======]	_	0s	177ms/step
1/1	[=======]	_	0s	174ms/step
1/1	[======]	_	0s	176ms/step
1/1	[=======]	-	0s	164ms/step
1/1	[=======]	-	0s	169ms/step
1/1	[=======]	-	0s	174ms/step
1/1	[=======]	-	0s	173ms/step
1/1	[=======]	-	0s	167ms/step
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1/1	<u> </u>	-		175ms/step
1/1	[=======]	-		173ms/step
1/1	[=======]	-		172ms/step
1/1		-		169ms/step
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. , ,		-	E	. /Gmc / ETAN

1/1	Īī	-	60	TZZIIIS/Steh
1/1	[=======]	-	0s	130ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	123ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[======]	_	0s	124ms/step
1/1	[]	-	0s	129ms/step
1/1	[=======]	_	0s	126ms/step
1/1	[=======]	_	0s	125ms/step
1/1	[=======]	_	0s	122ms/step
1/1	[======]	_	0s	129ms/step
1/1	[======]		0s	125ms/step
	[]	_		
1/1	[========]	-	0s	130ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[======]	-	0s	128ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	126ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=====]	-	0s	127ms/step
1/1	[=======]	_	0s	122ms/step
1/1	[=======]	_	0s	123ms/step
1/1	[=======]	_	0s	134ms/step
1/1	[]	_	0s	128ms/step
1/1	[======]	_	0s	127ms/step
	[======]			
1/1	<u> </u>	-	0s	146ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[======]	-	0s	124ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[======]	-	0s	124ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	127ms/step
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1/1	[=======]	-	0s	132ms/step
1/1	[======]	-	0s	124ms/step
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1/1	[======]	_	0s	131ms/step
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1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	130ms/step
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1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	124ms/step
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1/1	[======]	_	0s	177ms/step
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1/1	[======]	_	0s	175ms/step
1/1	[======]	_	0s	171ms/step
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1/1	[=========]	_	0s	185ms/step
1/1	[======]	_	0s	168ms/step
1/1	[======]	_	0s	170ms/step
1/1	[=======]	_	0s	164ms/step
1/1	[======]	_	0s	177ms/step
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1/1	[=======]	-	0s	148ms/step
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1/1	[======]	-	0s	168ms/step
1/1	[======]	-	0s	173ms/step
1/1	[======]		0s	165ms/step
1/1	[======]		0s	176ms/step
1/1	[======]		0s	174ms/step
1/1	[======]	-	0s	180ms/step
1/1	[======]	-	0s	178ms/step
1/1	[======]		0s	175ms/step
1/1	[======]	-	0s	176ms/step
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1/1	[======]		0s	171ms/step
1/1	[======]		0s	173ms/step
1/1	[======]		0s	174ms/step
1/1	[======]		0s	166ms/step
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1/1	[======]	-	0s	173ms/step
1/1	[======]	-	0s	172ms/step
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1/1	[=========]		0s	131ms/step
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1/1	[=======]	-	0s	128ms/step	
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1/1	[=======]	-	0s	136ms/step	
1/1	[=======]	-	0s	141ms/step	
1/1	[======]	-	0s	132ms/step	
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1/1	[=======]	-	0s	124ms/step	
1/1	[=======]	-	0s	175ms/step	
1/1	[======]	-	0s	170ms/step	
1/1	[=======]	-	0s	165ms/step	
1/1	[=======]	-	0s	178ms/step	
1/1	[======]	-	0s	172ms/step	
1/1	[=======]	-	0s	163ms/step	
1/1	[=======]	-	0s	184ms/step	
1/1	[=======]	-	0s	178ms/step	
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1/1	[=======]	-	0s	171ms/step	
1/1	[======]	-	0s	169ms/step	
1/1	[=======]	-	0s	174ms/step	
1/1	[=======]	-	0s	178ms/step	
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1/1	[=======]	-	0s	160ms/step	
1/1	[======]	-	0s	167ms/step	
1/1	[=======]	-	0s	175ms/step	
1/1	[======]	-	0s	166ms/step	
1/1	[======]	-	0s	168ms/step	
1/1	[======]	-	0s	124ms/step	
1/1	[=======]	-	0s	129ms/step	
1/1	[======]	-	0s	128ms/step	
1/1	[======]	-	0s	132ms/step	
1/1	[======]	-	0s	125ms/step	
1/1	[=======]	-	0s	123ms/step	
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1/1	[=======]	-	0s	131ms/step
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1/1	[=======]	-	0s	126ms/step
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1/1	[=======]	-	0s	126ms/step
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1/1	[=======]	-	0s	123ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=========]	-	0s	127ms/step
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1/1	[======]	-	0s	134ms/step
1/1	[======]	-	0s	131ms/step
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1/1	[======]	_	0s	172ms/step
1/1	[=======]	-	0s	174ms/step
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1/1	[========]	-	0s	162ms/step
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1/1	[======]	-	0s	174ms/step
1/1	[======]	-	0s	179ms/step
1/1	[======]	-	0s	166ms/step
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1/1	[=======]	-	0s	143ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[======]	-	0s	136ms/step
1/1	[======]			144ms/step
1/1	[======]	-	0s	152ms/step
1/1	[]	-	0s	138ms/step
1/1	[======]	-	0s	141ms/step
1/1	[]	-		133ms/step
1/1	[======]	-		134ms/step
1/1	[========]			138ms/step
1/1	[========]			141ms/step
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1/1	[========]			132ms/step
1/1	[========]			138ms/step
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1/1	[========]			136ms/step
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1/1	[=======]	-	0s	138ms/step
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1/1	[======]	-	0s	152ms/step
1/1	[======]	-	0s	137ms/step
1/1	[======]	-	0s	138ms/step
1/1	[======]	-	0s	197ms/step
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1/1	[======]	-	0s	195ms/step
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1/1	[=======]	-	0s	135ms/step
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1/1	[=======]	-	0s	143ms/step
1/1	[======]	-	0s	138ms/step
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1/1	[=======]	-	0s	133ms/step
1/1	[======]	-	0s	139ms/step
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1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[=======]	-	0s	143ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	147ms/step
1/1	[======]	_	0s	135ms/step
1/1	[=======]	_	0s	134ms/step
1/1	[======]	_	0s	129ms/step
1/1	[=======]	_	0s	135ms/step
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1/1	[=======]	_	0s	131ms/step
1/1	[=======]	_	0s	133ms/step
1/1	[======]	_	0s	132ms/step
1/1	[======]	_	0s	137ms/step
1/1	[=======]	_	0s	127ms/step
1/1	[======]	_	0s	141ms/step
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1/1	[======]	_	0s	130ms/step
1/1	[=======]	_	0s	128ms/step
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1/1	[======]	_	0s	140ms/step
1/1	[======]	_	0s	133ms/step
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1/1	[=======]	_	0s	150ms/step
1/1	[======]	_	0s	129ms/step
1/1	[======]	_	0s	131ms/step
1/1	[======]	_	0s	137ms/step
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1/1 [===================================			168ms/step
1/1 [===================================			172ms/step
1/1 [=======]	-	0s	181ms/step
1/1 [=======]	-	0s	170ms/step
1/1 [=======]	-	0s	172ms/step
1/1 [========]	-	0s	183ms/step
1/1 [========]	-	0s	181ms/step
1/1 [==========]	-	0s	170ms/step
1/1 [===================================	-	0s	187ms/step
1/1 [===================================	i -	0s	174ms/step
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1/1 [============	-	0s	171ms/step
1/1 [===================================	-	0s	170ms/step
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			125ms/step
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1/1 [=======]	-	0s	141ms/step
1/1 [========]	-	0s	132ms/step
1/1 [===================================	-	0s	142ms/step
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1/1 [=========]	-	0s	129ms/step
1/1 [=======]	-	0s	126ms/step
1/1 [========]	-	0s	129ms/step
1/1 [=======]	-	0s	128ms/step
1/1 [==========]	-	0s	133ms/step
1/1 [========]	-	0s	129ms/step
1/1 [===================================	-	0s	132ms/step
1/1 [===================================	-	0s	131ms/step
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1/1	[======]	-	ØS	128ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[======]	-	0s	138ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[=======]	-	0s	140ms/step
1/1	[=======]	-	0s	177ms/step
1/1	[=======]	-	0s	176ms/step
1/1	[========]	-	0s	173ms/step
1/1	[=======]	-	0s	165ms/step
1/1	[=======]	-	0s	168ms/step
1/1	[=======]	-	0s	167ms/step
1/1	[=======]	-	0s	165ms/step
1/1 1/1	[=======]	-	0s	178ms/step 165ms/step
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1/1 1/1	[=======]	-	0s 0s	161ms/step 169ms/step
1/1	[=======]	-	0s	167ms/step
1/1	[=======]	_	0s	186ms/step
1/1	[======]	_	0s	169ms/step
1/1	[=======]	_	0s	163ms/step
1/1	[=======]	_	0s	175ms/step
1/1	[========]	_	0s	171ms/step
1/1	[=======]	-	0s	189ms/step
1/1	[=======]	-	0s	173ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[======]	-	0s	137ms/step
1/1	[======]	-	0s	130ms/step
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1/1	[========]	-	0s	124ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	127ms/step
1/1 1/1	[=======]	-	0s 0s	132ms/step
1/1	[=======]	-	0s	130ms/step 123ms/step
1/1	[=======]	_	0s	128ms/step
1/1	[======]	_	0s	131ms/step
1/1	[=======]	_	0s	143ms/step
1/1	[======]	_	0s	131ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	139ms/step
1/1	[======]	-	0s	125ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-		125ms/step
1/1	[]	-		139ms/step
1/1	[========]	-		122ms/step
1/1	[=======]	-		137ms/step
1/1	[=======]	-		127ms/step
1/1	[=======]	-		124ms/step
1/1	[=======]			125ms/step
1/1	[========]	-	0s	131ms/step
. , ,	·'			. A.m. /CTAN

1/1	[]	-	20	T73III2/2reh
1/1	[========]	-	0s	140ms/step
1/1	[========]	-	0s	130ms/step
1/1	[========]	-	0s	140ms/step
1/1	[========]	-	0s	128ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[========]	-	0s	140ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[========]	-	0s	134ms/step
1/1	[========]	-	0s	126ms/step
1/1 1/1	[=======]	-	0s 0s	130ms/step 127ms/step
1/1	[]	-		140ms/step
1/1	[=======]	-	0s 0s	123ms/step
1/1	[=======]	_	0s	126ms/step
1/1	[======]	_	0s	127ms/step
1/1	[========]	_	0s	136ms/step
1/1	[=======]	_	0s	124ms/step
1/1	[=======]	_	0s	133ms/step
1/1	[=======]	_	0s	130ms/step
1/1	[======]	_	0s	172ms/step
1/1	[======]	-	0s	172ms/step
1/1	[=======]	-	0s	172ms/step
1/1	[======]	-	0s	175ms/step
1/1	[=======]	-	0s	166ms/step
1/1	[=======]	-	0s	166ms/step
1/1	[=======]	-	0s	172ms/step
1/1	[======]	-	0s	176ms/step
1/1	[======]	-	0s	167ms/step
1/1	[======]	-	0s	167ms/step
1/1	[======]	-	0s	168ms/step
1/1	[======]	-	0s	169ms/step
1/1	[======]	-	0s	164ms/step
1/1	[========]	-	0s	174ms/step
1/1	[=======]	-	0s	165ms/step
1/1	[========]	-	0s	174ms/step
1/1	[=======]	-	0s	175ms/step
1/1	[=======]	-	0s	170ms/step
1/1	[]	-	0s	184ms/step
1/1	[=======]	-	0s	128ms/step
1/1 1/1	[=======]	-	0s	122ms/step
1/1	[========]	-	0s 0s	132ms/step 132ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[=======]	_	0s	125ms/step
1/1	[=======]	_	0s	135ms/step
1/1	[======]	_	0s	132ms/step
1/1	[=======]	_	0s	122ms/step
1/1	[=======]	_	0s	136ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	124ms/step
1/1		-		130ms/step
1/1		-		130ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	129ms/step
1/1		-		130ms/step
1/1	[]	-		124ms/step
1/1	[=======]	-		134ms/step
1/1	[=======]	-		125ms/step
1/1	-	-		131ms/step
1/1	[=======]			127ms/step
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1/1				
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[======]	-	0s	127ms/step
1/1	[]	-	0s	126ms/step
1/1	[]	-	0s	130ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	123ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	140ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	139ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	124ms/step
1/1	[======]	-	0s	133ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	_	0s	131ms/step
1/1	[======]	-	0s	126ms/step
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1/1	[=======]	_	0s	131ms/step
1/1	[=======]	_	0s	125ms/step
1/1	[=======]	_	0s	128ms/step
1/1	[=======]	_	0s	125ms/step
1/1	[=======]	_	0s	122ms/step
1/1	[=======]		0s	169ms/step
1/1	[=======]	_	0s	174ms/step
1/1	[=======]	_	0s	174ms/step
1/1	-	_	0s	
1/1	[=======]	_	0s	175ms/step 167ms/step
1/1	[=======]	_	0s	173ms/step
1/1	-	_	0s	
1/1	[======]	_	0s	179ms/step
1/1	[=======]	_	0s	188ms/step
	[]	-		176ms/step
1/1	[======]	-	0s	170ms/step
1/1	[======]	-	0s	169ms/step
1/1	[======]	-	0s	183ms/step
1/1 1/1	[=======]	-	0s	163ms/step
•	[]	-	0s	168ms/step
1/1	[]	-	0s	168ms/step
1/1	[]	-	0s	173ms/step
1/1	[=======]	-	0s	163ms/step
1/1	[======]	-		172ms/step
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1/1	r [======]	_	0s	122ms/step
1/1	[======]	_		129ms/step
1/1	[======]	_	0s	131ms/step
1/1	[======]	_	0s	129ms/step
1/1	[======]	_	0s	128ms/step
1/1	[======]	_	0s	129ms/step
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1/1	[======]	_	0s	129ms/step
1/1	[========]	-	0s	127ms/step
1/1	[======]	-	0s	131ms/step
1/1	[=======]	-	0s	127ms/step
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1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	127ms/step
1/1	[======]	-	0s	133ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[========]	-	0s	140ms/step
1/1	[========]	-	0s	126ms/step
1/1	[========]	-	0s	135ms/step
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1/1	[========]	-	0s	131ms/step
1/1	[=======]	-	0s	123ms/step 125ms/step
1/1 1/1	[======]	_	0s	125ms/step
1/1	[========]	-	0s 0s	134ms/step
1/1	[=======]	_	0s	125ms/step
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1/1	[=======]	_	0s	130ms/step
1/1	[=======]	_	0s	123ms/step
1/1	[======]	_	0s	131ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	127ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	135ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	122ms/step
1/1	[========]	-	0s	123ms/step
1/1 1/1	[=======]	-	0s 0s	122ms/step 131ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[======]	_	0s	125ms/step
1/1	[======]	_	0s	161ms/step
1/1	[=======]	_	0s	169ms/step
1/1	[=======]	_	0s	175ms/step
1/1	[=======]	-	0s	167ms/step
1/1	[========]	-	0s	171ms/step
1/1	[======]	-	0s	168ms/step
1/1	[======]	-	0s	162ms/step
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1/1	[======]	-	0s	169ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	122ms/step
1/1	[======]	-	0s	134ms/step
1/1	[======]	-	0s	123ms/step
1/1	[======]	-	0s	122ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	133ms/step
1/1	[]	-	0s	128ms/step
1/1	[]	-	0s	125ms/step
1/1	[]	-	0s	131ms/step
1/1	[]	-	0s	133ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	125ms/step
1/1	[======]	-	0s	122ms/step
1/1	[]	-	0s	121ms/step
1/1	[]	-	0s	127ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	136ms/step
1/1	[======]	-	0s	126ms/step
1/1	[]	-	0s	124ms/step
1/1	[========]	-	0s	127ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[]	-	0s	135ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	123ms/step
1/1	[======]	-	0s	127ms/step
1/1	[======]	-	0s	141ms/step
1/1	[======]	-	0s	125ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	140ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	131ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[======]	-	0s	127ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[======]	-	0s	124ms/step
1/1	[======]	_	0s	144ms/step 124ms/step
1/1 1/1	[======]	_	0s 0s	127ms/step
1/1	[======]	_	0s	132ms/step
1/1	[======]	_	0s	133ms/step
1/1	[======]	_	0s	128ms/step
1/1	[======]	_	0s	148ms/step
1/1	[======]	_	0s	126ms/step
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1/1	[=======]	-	0s	175ms/step
1/1	[=======]	-	0s	170ms/step
1/1	[======]	-	0s	167ms/step
1/1	[=======]	-	0s	174ms/step
1/1	[=======]	-	0s	168ms/step
1/1	[=======]	-	0s	168ms/step
1/1	[=======]	_	0s	170ms/step
1/1	[=======]	-	0s	165ms/step
1/1	[=======]	_	0s	168ms/step
1/1	[=======]	-	0s	165ms/step
1/1	[=======]	_	0s	199ms/step
1/1	[=======]	_	0s	164ms/step
1/1	[=======]	-	0s	168ms/step
1/1	[=======]	-	0s	173ms/step
1/1	[=======]	-	0s	177ms/step
1/1	[=======]	-	0s	175ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[========]	-	0s	123ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[======]	-	0s	121ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[========]	-	0s	128ms/step
1/1	[======]	-	0s	132ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[========]	-	0s	133ms/step
1/1	[======]	-	0s	127ms/step
1/1	[========]	-	0s	128ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[======]	-	0s	129ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[======]	-	0s	139ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[======]	-	0s	134ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	127ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[======]	-	0s	129ms/step
1/1	[========]	-	0s	132ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-		135ms/step
1/1	[=======]			129ms/step
	[=======]			
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1 /1			0-	122/
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	-	0s	139ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[========]	-	0s	131ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	139ms/step
1/1	[========]	-	0s	130ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[=======]	-	0s	157ms/step
1/1	[=======]	-	0s	163ms/step
1/1	[=======]	-	0s	174ms/step
1/1	[]	-	0s	186ms/step
1/1	[==========] r	-	0s	162ms/step
1/1	[=======]	-	0s	166ms/step
1/1	[======]	-	0s	183ms/step
1/1	[==========] r	-	0s	163ms/step
1/1 1/1	[===========]	-	0s	166ms/step 169ms/step
1/1	[=======]	-	0s 0s	173ms/step
1/1	[======]	-	0s	167ms/step
1/1	[=========]	-	0S	
1/1	[=======]	-	0s	175ms/step 171ms/step
1/1	[======]	-	0s	173ms/step
1/1	[=======]	_	0s	165ms/step
1/1	[=======]	_	0s	171ms/step
1/1	[]	_	0s	174ms/step
1/1	[=======]	_	0s	179ms/step
1/1	[=======]	_	0s	130ms/step
1/1	[========]	_	0s	130ms/step
1/1	[=======]	_	0s	122ms/step
1/1	[========]	_	0s	139ms/step
1/1	[=======]	_	0s	131ms/step
1/1	[========]	_	0s	127ms/step
1/1	[======]	_	0s	128ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[========]	-	0s	143ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=========]	-	0s	131ms/step
1/1	[======]	-	0s	130ms/step
1/1	[========]	-	0s	142ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	134ms/step
1/1	[======]	-	0s	127ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	133ms/step
1/1	[======]	-	0s	124ms/step
1/1	[======]	-	0s	132ms/step
	[]			126ms/step
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1/1	[=====]	-	05	133ms/step

1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	138ms/step
1/1	[======]	-	0s	124ms/step
1/1	[======]	-	0s	128ms/step
1/1	[========]	-	0s	131ms/step
1/1	[========]	-	0s	127ms/step
1/1	[========]	-	0s	131ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	129ms/step
1/1 1/1	[=======]	-	0s 0s	130ms/step
1/1	[=======]	_	0s	134ms/step 130ms/step
1/1	[=======]	_	0s	127ms/step
1/1	[=======]	_	0s	137ms/step
1/1	[======]	_	0s	135ms/step
1/1	[=======]	_	0s	125ms/step
1/1	[======]	_	0s	127ms/step
1/1	[=======]	_	0s	130ms/step
1/1	[======]	_	0s	131ms/step
1/1	[======]	_	0s	132ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	178ms/step
1/1	[======]	-	0s	174ms/step
1/1	[======]	-	0s	168ms/step
1/1	[======]	-	0s	177ms/step
1/1	[======]	-	0s	170ms/step
1/1	[]	-	0s	184ms/step
1/1	[======]	-	0s	182ms/step
1/1	[======]	-	0s	171ms/step
1/1	[========]	-	0s	169ms/step
1/1	[=======]	-	0s	172ms/step
1/1	[========]	-	0s	174ms/step
1/1 1/1	[]	-	0s	167ms/step
1/1	[=======]	-	0s 0s	162ms/step 169ms/step
1/1	[======]	_	0s	162ms/step
1/1	[======]	_	0s	125ms/step
1/1	[=======]	_	0s	128ms/step
1/1	[======]	_	0s	121ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[======]	-	0s	133ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	122ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	133ms/step
1/1	[========]	-	0s	126ms/step
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	[========]			
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1/1	[======]	-	0s	126ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	129ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[=======]	-	0s	122ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[======]	-	0s	125ms/step
1/1	[=======]	-	0s	140ms/step
1/1	[]	-	0s	129ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	127ms/step
1/1	[======]	-		
1/1	[=======]	-	0.5	-
1/1	[=======]	-	00	
1/1		-		
1/1	[=======]	-		131ms/step
1/1	[=======]	-	0s	
1/1	[=======]	_		
1/1 1/1	1 1		-	127ms/step 139ms/step
1/1	[======]	-		
1/1	[======]	_		
1/1	[======]	_	_	,
1/1	[========]	_		
1/1	[======]	_		
1/1	[========]	_	0s	
1/1	[=======]	_	0s	126ms/step
1/1	[======]	_	0s	
1/1	[=======]	_	_	129ms/step
1/1		_	_	136ms/step
1/1	[=======]	_	0s	136ms/step
1/1	[========]	-	0s	184ms/step
1/1	[=======]	-	0s	170ms/step
1/1	[=======]	-	0s	172ms/step
1/1	[======]	-	0s	187ms/step
1/1	[======]	-	0s	178ms/step
1/1	[======]	-	0s	175ms/step
1/1	[======]	-	0s	187ms/step
1/1	[======]	-	0s	
1/1	[=======]	-	0s	168ms/step
1/1	[======]	-	0s	168ms/step
1/1		-		166ms/step
1/1	[=======]	-	0s	178ms/step
1/1	[=======]	-	0s	192ms/step
1/1	[=======]	-	0s	
1/1		-	0s	
1/1 1/1	[===========]	-	0s 0s	174ms/step 186ms/step
1/1		_	0s	172ms/step
	[=======]			
	[=======]			
	[========]			
	[======]			
	[=======]			
	[======]			
	[=======]			
	[=======]			
	[======]			
1/1	[======]	-	0s	134ms/step
1/1	[======]	-	0s	129ms/step
1/1	[]	-	0s	129ms/step
•	-		-	

1/1 []			
1/1 [=======]	-	0s	137ms/step
1/1 [=======]	-	0s	140ms/step
1/1 [=======]	_	0s	128ms/step
1/1 [======]			
1/1 [=======]			
1/1 [===================================			
1/1 [=======]			
1/1 [=======]			
1/1 [=======]	-	0s	127ms/step
1/1 [=======]			
1/1 [=======]			
1/1 [=======]			
1/1 []			
1/1 [=======]			
1/1 []			
1/1 [=======]	-	0s	128ms/step
1/1 [========]	-	0s	135ms/step
1/1 [=======]	-	0s	128ms/step
1/1 [=======]		0s	129ms/step
1/1 [======]			
1/1 []			
1/1 [===================================			
1/1 [=======]			
1/1 [======]	-	0s	133ms/step
1/1 [=======]	-	0s	124ms/step
1/1 [========]	-	0s	128ms/step
1/1 [=======]	-	0s	134ms/step
1/1 []			
1/1 []			
1/1 [=======]			129ms/step
1/1 [=======]			
1/1 [===================================			
1/1 []			
1/1 [=======]	-	0s	130ms/step
1/1 [=======]	-	0s	124ms/step
1/1 [=======]	-	0s	134ms/step
1/1 [=======]			
1/1 [=======]			135ms/step
1/1 [=======]			129ms/step
1/1 [========]			
-			
1/1 [===================================			129ms/step
1/1 [==========]			
1/1 []			136ms/step
1/1 [======]	-	0s	176ms/step
1/1 [=======]	-	0s	171ms/step
1/1 [=======]	-	0s	167ms/step
1/1 [========]			
1/1 [======]			
1/1 [=======]			174ms/step
1/1 [=======]			
1/1 [===================================			
1/1 [===================================			
1/1 [=======]			
1/1 [======]	-	0s	168ms/step
1/1 [======]	-	0s	181ms/step
1/1 [=======]	-	0s	185ms/step
1/1 [=======]			
1/1 [=======]			
1/1 [========]			•
1/1 []			
1/1 []	-	~	100 / 1

1/1	[======]	-	ØS	
1/1	[=======]	-	0s	180ms/step
1/1	[======]	-	0s	169ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	129ms/step
1/1 1/1	[=======]	-	0s 0s	125ms/step 124ms/step
1/1	[======]	_	0s	138ms/step
1/1	[======]	_	0s	129ms/step
1/1	[======]	_	0s	137ms/step
1/1	[======]	_	0s	132ms/step
1/1	[========]	_	0s	131ms/step
1/1	[=========]	_	0s	128ms/step
1/1	[======]	_	0s	130ms/step
1/1	[=========]	_	0s	137ms/step
1/1	[=======]	_	0s	145ms/step
1/1	[======]	_	0s	126ms/step
1/1	[=======]	_	0s	121ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[======]	_	0s	127ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[======]	-	0s	127ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	127ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	138ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	125ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	132ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[=======]	-	0s	142ms/step
1/1	[]	-	0s	128ms/step
1/1	[]	-	0s	126ms/step
1/1 1/1	[=======]	_	0s 0s	123ms/step 133ms/step
1/1	[======]	_	0s	129ms/step
1/1	[======]	_	0s	132ms/step
1/1	[======]	Ī	0s	130ms/step
	[======]	_		126ms/step
	[======]	_	05	126ms/sten
	[======]			128ms/step
	[======]			
	[=======]			131ms/step
	[======]			
	[======]			125ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[=======]	-	0s	184ms/step
	[======]			
	[]	-		
1 /1	1		0.0	171/

1/1	[======]	-	ØS	1/1ms/step
1/1	[=======]	-	0s	167ms/step
1/1	[=======]	-	0s	169ms/step
1/1	[=======]	-	0s	166ms/step
1/1 1/1	[========]	-	0s 0s	172ms/step 176ms/step
1/1	[======]	-	0S	
1/1	[======]	-	0s	172ms/step 169ms/step
1/1	[======]	-	0s	172ms/step
1/1	[======]	-	0s	162ms/step
1/1	[======]	_	0s	194ms/step
1/1	[======]	_	0s	188ms/step
1/1	[=======]	_	0s	171ms/step
1/1	[=======]	_	0s	165ms/step
1/1	[=======]	_	0s	172ms/step
1/1	[=======]	_	0s	158ms/step
1/1	[=======]	_	0s	160ms/step
1/1	[=======]	_	0s	122ms/step
1/1	[=======]	_	0s	125ms/step
1/1	[========]	-	0s	142ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[]	-	0s	133ms/step
1/1	[=======]	-	0s	140ms/step
1/1	[]	-	0s	127ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[]	-	0s	144ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	125ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	123ms/step
1/1	[]	-	0s	126ms/step
1/1	[]	-	0s	130ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	136ms/step
1/1	[======]	-	0s	129ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[======]	-	0s	130ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	-	0s	135ms/step
1/1 1/1	[]	-	0s 0s	126ms/step
1/1	[=======]	-	0s	134ms/step 125ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	_	0s	131ms/step
1/1	[======]	_	0s	126ms/step
1/1	[======]	_	0s	131ms/step
1/1	[=======]	_	0s	126ms/step
•	[=========]	_		136ms/step
	[=======]			134ms/step
-	[======]	_		136ms/step
	[=======]	_		133ms/step
-	[=======]			133ms/step
-	[=======]			127ms/step
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٠.	[]			137ms/step
1/1	[]	-		140ms/step
1/1	[=======]	-		129ms/step
1/1	[======]	-	0s	129ms/step
1/1	ři	-	۵c	

	[]			
1/1	[======]	-		135ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	142ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	-	0s	140ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[]	-	0s	125ms/step
1/1	[=======]	-	0s	175ms/step
1/1 1/1	[]	-	0s	171ms/step
1/1	[======]	-	0s 0s	183ms/step 177ms/step
1/1		-	0s	185ms/step
1/1	[==========]	_	0s	165ms/step
1/1	[======]	_	0s	182ms/step
1/1	[========]	_	0s	189ms/step
1/1	[=======]	_	0s	174ms/step
1/1	[======]	_	0s	170ms/step
1/1	[======]	_	0s	172ms/step
1/1	[======]	_	0s	172ms/step
1/1	[======]	_	0s	186ms/step
1/1	[======]	_	0s	159ms/step
1/1	[======]	_	0s	
1/1	[======]	_	0s	181ms/step
1/1	[=======]	-	0s	170ms/step
1/1	[======]	_	0s	169ms/step
1/1	[=======]	-	0s	174ms/step
1/1	[]	-	0s	180ms/step
1/1	[=======]	-	0s	169ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[======]	-	0s	127ms/step
1/1	[======]	-	0s	140ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	130ms/step
1/1	[]	-	0s	129ms/step
1/1	[]	-	0s	124ms/step
1/1	[======]	-	0s	132ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	133ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[]	-	0s	136ms/step
1/1	[]	-	0s	130ms/step
1/1	[]	-	0s	124ms/step 128ms/step
1/1	[=======]	-	0s	
	[======]			
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	[========]			
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	[======]			
1/1	[======]	-	0s	134ms/step
1/1				

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1/1	[========]	-	0s	129ms/step
1/1	[========]	-	0s	123ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[========]	_	0s	126ms/step
	[========]			
1/1			0s	128ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[========]	-	0s	127ms/step
1/1	[=======]	-	0s	139ms/step
1/1	[========]	-	0s	127ms/step
1/1	[=========]		0s	134ms/step
1/1	[========]		0s	133ms/step
1/1	[=========]	-	0s	127ms/step
1/1	[======]	-	0s	137ms/step
1/1	[========]	_	0s	133ms/step
1/1	[=======]		0s	128ms/step
1/1	[========]		0s	129ms/step
1/1	[========]	-	0s	129ms/step
1/1	[========]	-	0s	133ms/step
1/1	[======]	-	0s	127ms/step
1/1	[========]	_	0s	130ms/step
1/1	[========]		0s	131ms/step
1/1	[=======]	-	0s	144ms/step
1/1	[========]	-	0s	133ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[========]	_	0s	182ms/step
1/1	[=======]		0s	184ms/step
1/1	[======================================		0s	185ms/step
1/1	[========]	-	0s	186ms/step
1/1	[=========]	-	0s	178ms/step
1/1	[========]	_	0s	176ms/step
1/1	[========]	_	0s	168ms/step
1/1				
•	[=======]		0s	170ms/step
1/1	[========]		0s	188ms/step
1/1	[========]	-	0s	181ms/step
1/1	[=========]	-	0s	170ms/step
1/1	[========]	_	0s	173ms/step
1/1	[========]		0s	180ms/step
-				
1/1	[========		0s	178ms/step
1/1	[=======]	-	0s	177ms/step
1/1	[=========]	-	0s	169ms/step
1/1	[=======]	-	0s	175ms/step
1/1	[========]	_	0s	124ms/step
1/1	[========]		0s	127ms/step
٠.				
1/1	[=======]		0s	125ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[========]	-	0s	142ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[========]	_	0s	132ms/step
1/1	[=========]		0s	127ms/step
	-			
1/1	[=======]		0s	122ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[========]	-	0s	133ms/step
1/1	[==========]	-	0s	132ms/step
	[========]			-
	[======================================			
	[========			-
	[========]			
1/1	[========]	-	0s	126ms/step
1/1	[========]	-	0s	130ms/step
	[=======]			
	[=========]			
1/1				
т/ т		-	US	14/1113/3LED

,				-,
1/1	[=======]	-	0s	136ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[======]	-	0s	124ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	123ms/step
1/1	[=======]	-	0s	139ms/step
1/1	[========]	-	0s	127ms/step
	[=======]	-		131ms/step
	[=======]	-	0s	130ms/step
	[========]	-	0s	132ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[======]	-	0s	126ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	142ms/step
1/1	[======]	-	0s	123ms/step
1/1	[======]	-	0s	125ms/step
1/1	[======]	-	0s	125ms/step
1/1	[======]	-	0s	127ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	137ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	134ms/step
1/1	[]	-	0s	125ms/step
1/1	[======]	-		125ms/step
1/1	[======]	-	0s	143ms/step
1/1		-		131ms/step
	[======]	-		128ms/step
	[======]	-		130ms/step
1/1		-		124ms/step
1/1		-		131ms/step
	[=======]	-		184ms/step
	[=======]	-		182ms/step
	[=======]	-		174ms/step
	[=======]	-		167ms/step
	[=======]	-		181ms/step
1/1	: :	-		180ms/step
1/1	1 1	-		175ms/step
1/1		-		190ms/step
1/1		-		186ms/step
1/1	[========]	-		173ms/step 195ms/step
	[=======]			165ms/step
	[=======]	_		172ms/step
	[=======]	_		166ms/step
	[========]	_		178ms/step
	[=======]			171ms/step
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	[======]			
1/1	[=======]	-	0s	143ms/step
1/1	[======]	-	0s	159ms/step

1/1	[======]	-	0s	139ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	126ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	_	0s	124ms/step
1/1	[=======]	_	0s	124ms/step
1/1	[=======]	_	0s	135ms/step
1/1	[=======]	-	0s	144ms/step
1/1	[=======]	_	0s	142ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	144ms/step
1/1	[======]	-	0s	150ms/step
1/1	[=======]	-	0s	154ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[======]	-	0s	139ms/step
1/1	[=======]	-	0s	143ms/step
1/1	[======]	-	0s	138ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[======]	-	0s	131ms/step
1/1	[=======]	-	0s	148ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[======]	-	0s	132ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[======]	-	0s	138ms/step
1/1	[=======]	-	0s	145ms/step
1/1	[======]	-	0s	144ms/step
1/1	[======]	-	0s	137ms/step
1/1	[=======]	-	0s	141ms/step
1/1	[======]	-	0s	136ms/step
1/1	[=======]	-	0s	140ms/step
1/1	[======]	-	0s	143ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	134ms/step
1/1	[======]	-	0s	142ms/step
1/1	[======]	-	0s	151ms/step
1/1	[======]	-	0s	144ms/step
1/1	[======]	-	0s	158ms/step
1/1	[======]	-	0s	187ms/step
1/1	[======]	-	0s	195ms/step
1/1	[======]	-	0s	176ms/step
1/1	[======]	-	0s	174ms/step
1/1	[======]	-	0s	186ms/step
1/1	[======]	-	0s	190ms/step
1/1	[======]	-	0s	199ms/step
1/1	[======]	-	0s	185ms/step
1/1	[======]			191ms/step
	[======]			
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	[=======]			
1/1	[======]	-	ØS	146ms/step

1 /1	ſ1		0.0	129mc/ston
1/1	[]	-	0s	138ms/step
1/1	[]	-	0s	142ms/step 143ms/step
1/1	[]	-	0s	/
1/1	[========]	-	0s	134ms/step
1/1	[========]	-	0s	135ms/step
1/1	[=========]	-	0s	134ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[=========]	-	0s	140ms/step
1/1	[]	-	0s	147ms/step
1/1 1/1	[=======]	-	0s 0s	132ms/step 131ms/step
1/1	[======]	-	0s	133ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	_	0s	127ms/step
1/1	[======]	_	0s	126ms/step
1/1	[=======]	_	0s	131ms/step
1/1	[========]	_	0s	127ms/step
1/1	[=======]	_	0s	142ms/step
1/1	[=======]	_	0s	133ms/step
1/1	[======]	_	0s	138ms/step
1/1	[========]	_	0s	140ms/step
1/1	[=======]	_	0s	134ms/step
1/1	[=======]	_	0s	128ms/step
1/1	[=======]	_	0s	130ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[======]	-	0s	136ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[======]	-	0s	142ms/step
1/1	[======]	-	0s	132ms/step
1/1	[========]	-	0s	133ms/step
1/1	[=======]	-	0s	138ms/step
1/1	[========]	-	0s	136ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[======]	-	0s	133ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[=========]	-	0s	141ms/step
1/1	[======]	-	0s	128ms/step
1/1	[========]	-	0s	130ms/step
1/1	[========]	-	0s	130ms/step
1/1	[========]	-	0s	129ms/step
1/1	[========]	-	0s	126ms/step
1/1	[========]	-	0s	126ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[========]	-	0s	171ms/step
1/1	[]	-	0s	173ms/step 180ms/step
1/1	[=======]	-	0s	213ms/step
1/1		-	0s	
	[]			175ms/step
	[=========]			
	[======]			
	[=========]			
	[=========]			
	[=======]			
	[==========]			
	[======]			
	[=========]			172ms/step
	[=========]			
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	[======]			
1/1	[======]	-	0s	171ms/step
1/1	[======]	-	0s	183ms/step
1/1	[======]	-	0s	138ms/step
1/1	[======]	-	0s	142ms/step
1/1	[=====]	-	0s	138ms/step
	[]			
	[]			
1/1	[======]	_	as	122ms/sten
1/1	[======================================	_	۵c	130ms/step
	[]			
	[=======]			
	[======]			
	[======]			
	[=======]			
	[=======]			
	[======]			
1/1	[]	-	0s	128ms/step
1/1	[]	-	0s	125ms/step
1/1	[======]	-	0s	124ms/step
1/1	[======]	-	0s	139ms/step
	[======]			
	[======]			
	[]			
	[]			
	[=========]			
	[]			
	[======]			
	[]			
	[======]			
	[======]			
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	140ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	131ms/step
	[======]			
	[=======]			
	[======]			
	[]			
	[]			
	[]			
	[=======]			
	[======================================			
	[======]			
	[======]			
	[=======]			
	[======]			
	[======]			
1/1	[======]	-	0s	136ms/step
1/1	[]	-	0s	126ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	133ms/step
	[======]			
	[======]			
1/1	[]	-	0s	134ms/step
1/1 1/1	[]	-	0s 0s	134ms/step 126ms/step
1/1 1/1 1/1	[] []	- - -	0s 0s 0s	134ms/step 126ms/step 126ms/step
1/1 1/1 1/1 1/1	[======] [======]	- - -	0s 0s 0s 0s	134ms/step 126ms/step 126ms/step 124ms/step
1/1 1/1 1/1 1/1 1/1	[======] [======] [======]		0s 0s 0s 0s	134ms/step 126ms/step 126ms/step 124ms/step 168ms/step
1/1 1/1 1/1 1/1 1/1 1/1			0s 0s 0s 0s 0s	134ms/step 126ms/step 126ms/step 124ms/step 168ms/step 170ms/step
1/1 1/1 1/1 1/1 1/1 1/1 1/1	[======] [======] [======]		0s 0s 0s 0s 0s 0s	134ms/step 126ms/step 126ms/step 124ms/step 168ms/step 170ms/step 168ms/step

	_		_	
	[=======]			176ms/step
	[=======]	-		193ms/step
1/1	[=======]	-		173ms/step
1/1	[=======]	-	0s	191ms/step
1/1	[=======]	-		172ms/step
1/1	[=======]	-	0s	184ms/step
1/1	[=======]	-	0s	174ms/step
1/1	[=======]	-	0s	169ms/step
1/1	[=======]	-	0s	167ms/step
1/1	[=======]	-	0s	170ms/step
1/1	[=======]	-	0s	186ms/step
1/1	[=======]	-	0s	174ms/step
1/1	[=======]	-	0s	192ms/step
1/1 1/1	[]	-	0s 0s	167ms/step 178ms/step
1/1	[======]	_	0s	174ms/step
1/1	[======]	_	0s	169ms/step
1/1	[======]	_	0s	184ms/step
1/1	[=======]	_	0s	131ms/step
1/1	[======]	_	0s	127ms/step
1/1	[======]	_	0s	139ms/step
1/1	[=======]	_	0s	125ms/step
1/1	[======]	_	0s	132ms/step
1/1	[=======]	_	0s	133ms/step
1/1	[======]	_	0s	126ms/step
1/1	[=======]	_	0s	134ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	127ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	127ms/step
1/1	[]	-	0s	131ms/step
1/1	[]	-	0s	136ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	138ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	138ms/step
1/1 1/1	[=======]	-	0s 0s	134ms/step 125ms/step
1/1	[======]	_	0s	124ms/step
1/1	[=======]	_	0s	123ms/step
1/1	[=======]	_	0s	134ms/step
1/1	[======]	_	0s	127ms/step
1/1	[======]	_	0s	134ms/step
1/1		_	0s	123ms/step
1/1	[======]	_	0s	126ms/step
	[=======]	_		121ms/step
	[=======]			
	[=======]			
	[=======]			
	[=======]			
	[=======]			
	[======]			
1/1	[======]	-	0s	138ms/step
	[======]			
	[======]			
1/1	[=======]	-	0s	126ms/step
	_			

1/1	[======]	-	0s	123ms/step
1/1	[======]	-	0s	139ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	138ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	125ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[======]	-	0s	126ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	_	0s	122ms/step
1/1	[=======]	_	0s	175ms/step
1/1	[======]	_	0s	182ms/step
1/1	[=======]	_	0s	172ms/step
1/1	[=======]	_	0s	163ms/step
1/1	[======]	_	0s	184ms/step
1/1	[=======]	_	0s	166ms/step
1/1	[======]	_	0s	191ms/step
1/1	[======]	_	0s	163ms/step
1/1	[=======]	_	0s	181ms/step
1/1	[=======]	_	0s	167ms/step
1/1	[======]	_	0s	165ms/step
1/1	[======]	_	0s	186ms/step
1/1	[]	_	0s	175ms/step
1/1	[======]	_	0s	186ms/step
	1	-		
1/1	[=======]	-	0s	175ms/step
1/1	[=======]	-	0s	164ms/step
1/1	[=======]	-	0s	176ms/step
1/1	[=======]	-	0s	171ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	142ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[======]	-	0s	137ms/step
1/1	[======]	-	0s	123ms/step
1/1	[======]	-	0s	131ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[======]	-	0s	124ms/step
1/1	[======]	-	0s	134ms/step
1/1	[======]	-	0s	123ms/step
1/1	[======]	-	0s	134ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	130ms/step
	[======]			
1/1	[======]	-	0s	125ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	134ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	136ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	124ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	131ms/step
1 /1	r ,		^	406 / 1

1/1	[=======]	-	ØS	126ms/step
1/1	[========]	-	0s	140ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[========]	-	0s	126ms/step
1/1	[========]	-	0s	128ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[========]	-	0s	132ms/step
1/1	[=========]	-	0s	137ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[========]	-	0s	123ms/step
1/1	[========]	-	0s	138ms/step
1/1 1/1	[=========]	-	0s	131ms/step
1/1	[========]	-	0s 0s	129ms/step 133ms/step
1/1	[========]	-	0s	125ms/step
1/1	[========]	_	0s	130ms/step
1/1	[=======]	_	0s	131ms/step
1/1	[=======]	_	0s	128ms/step
1/1	[========]	_	0s	132ms/step
1/1	[=======]	_	0s	163ms/step
1/1	[========]	_	0s	168ms/step
1/1	[=======]	_	0s	184ms/step
1/1	[========]	_	0s	173ms/step
1/1	[=======]	_	0s	176ms/step
1/1	[========]	_	0s	189ms/step
1/1	[=======]	_	0s	165ms/step
1/1	[=======]	_	0s	186ms/step
1/1	[=======]	-	0s	166ms/step
1/1	[======]	-	0s	178ms/step
1/1	[=======]	-	0s	188ms/step
1/1	[========]	-	0s	205ms/step
1/1	[=======]	-	0s	180ms/step
1/1	[======]	-	0s	169ms/step
1/1	[======]	-	0s	199ms/step
1/1	[======]	-	0s	189ms/step
1/1	[======]	-	0s	182ms/step
1/1	[======]	-	0s	186ms/step
1/1	[======]	-	0s	166ms/step
1/1	[======]	-	0s	183ms/step
1/1	[======]	-	0s	143ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[========]	-	0s	128ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	140ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	128ms/step
	[=======]			123ms/step
	[]			136ms/step
1/1	1			128ms/step
1/1	[=======]			130ms/step 137ms/step
1/1	-			
1/1	[=========]			127ms/step 135ms/step
	[========]			125ms/step
1/1				130ms/step
	[=======]			
1/1				134ms/step
1/1	- 1 r 1		0-	120mc/c+cm

1/1	[=======]	-	۷S	129ms/step
1/1	[=======]	-	0s	139ms/step
1/1	[========]	-	0s	128ms/step
1/1	[=========]	-	0s	132ms/step
1/1	[========]	-	0s	130ms/step
1/1	[=========]	-	0s	129ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[========]	-	0s	131ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[======]	-	0s	122ms/step
1/1 1/1	[=======]	-	0s 0s	128ms/step 136ms/step
1/1	[=======]	_	0s	132ms/step
1/1	[=======]	_	0s	128ms/step
1/1	[=======]	_	0s	125ms/step
1/1	[========]	_	0s	130ms/step
1/1	[=======]	_	0s	124ms/step
1/1	[=======]	-	0s	150ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	-	0s	140ms/step
1/1	[========]	-	0s	127ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	124ms/step
1/1	[======]	-	0s	134ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	125ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[======]	-	0s	128ms/step
1/1	[========]	-	0s	137ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[]	-	0s	127ms/step
1/1 1/1	[========]	-	0s 0s	124ms/step 141ms/step
1/1	[========]	_	0s	175ms/step
1/1	[=======]	_	0s	169ms/step
1/1	[========]	_	0s	196ms/step
1/1	[=======]	_	0s	178ms/step
1/1	[=======]	_	0s	181ms/step
1/1	[=======]	-	0s	170ms/step
1/1	[=======]	-	0s	172ms/step
1/1	[=======]	-	0s	186ms/step
1/1	[=======]	-	0s	184ms/step
1/1	[======]	-	0s	176ms/step
1/1	[======]	-	0s	171ms/step
1/1	[======]	-	0s	167ms/step
1/1	[======]	-	0s	172ms/step
1/1	[========]	-	0s	174ms/step
1/1	[=======]	-	0s	162ms/step
1/1	[======]	-		175ms/step
1/1	[=======]			165ms/step
1/1	[]	-		166ms/step
1/1	[]	-		143ms/step
1/1 1/1	[=========]			126ms/step 131ms/step
1/1	[========]			131ms/step 131ms/step
1/1	[========]			129ms/step
1/1	[========]	_		129ms/step
1/1	[========]	_		128ms/step
1/1	[========]	-	0s	
1/1	Īi	-	ac	172mc/c+an

	[]			
1/1	[=======]	-		125ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	146ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[========]	-	0s	127ms/step
1/1 1/1	[]	-	0s	134ms/step
1/1	[=======]	-	0s 0s	128ms/step 127ms/step
1/1	[======]	_	0s	
1/1	[======]	_	0s	127ms/step
1/1	[======]	_	0s	124ms/step
1/1	[======]	_	0s	130ms/step
1/1	[========]	_	0s	124ms/step
1/1	[======]	_	0s	135ms/step
1/1	[======]	_	0s	136ms/step
1/1	[=======]	_	0s	130ms/step
1/1	[======]	_	0s	132ms/step
1/1	[=======]	_	0s	144ms/step
1/1	[=======]	_	0s	135ms/step
1/1	[=======]	_	0s	134ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[======]	-	0s	137ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	137ms/step
1/1	[======]	-	0s	133ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[]	-	0s	130ms/step
1/1	[]	-	0s	128ms/step
1/1 1/1	[=======]	_	0s 0s	134ms/step 129ms/step
1/1	[======]	_	0s	127ms/step
1/1	[=======]	_	0s	130ms/step
1/1	[======]	_	0s	137ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[========]	_	0s	157ms/step
1/1	[=======]	_	0s	175ms/step
1/1	[=======]	_	0s	175ms/step
1/1	[======]	_	0s	169ms/step
1/1	[=======]	-	0s	176ms/step
	[=======]			
	[=======]			
1/1	[=======]	-	0s	181ms/step
1/1	[======]	-	0s	195ms/step
	[======]			
	[======]			
	[======]			
	[=======]			
	[=======]			
	[=======]			
1/1	「=======1	-	ØS	1/9ms/sten

1/1	[======]	_	0s	197mc/c+on
1/1	•			187ms/step
1/1	[=======]	-	0s	185ms/step
1/1	[=======]	-	0s	172ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	128ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[======]	-	0s	139ms/step
1/1	[======]	-	0s	130ms/step
1/1	[=======]	_	0s	131ms/step
1/1	[=======]	_	0s	130ms/step
1/1	[=======]	_	0s	130ms/step
1/1	[======]	_	0s	137ms/step
1/1	[======]	_	0s	132ms/step
1/1	[======]	_	0s	133ms/step
		-		
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[======]	-	0s	133ms/step
1/1	[======]	-	0s	125ms/step
1/1	[======]	-	0s	127ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[======]	-	0s	127ms/step
1/1	[=======]	_	0s	128ms/step
1/1	[=======]	_	0s	126ms/step
1/1	[======]	_	0s	123ms/step
1/1	[=======]	_	0s	127ms/step
1/1	[======]	_	0s	129ms/step
1/1	•			
•	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[======]	-	0s	136ms/step
1/1	[======]	-	0s	133ms/step
1/1	[======]	-	0s	136ms/step
1/1	[======]	-	0s	128ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	133ms/step
1/1	[=======]	_	0s	125ms/step
1/1	[=======]	_	0s	135ms/step
1/1	[=======]	_	0s	125ms/step
1/1	[======]	_	0s	131ms/step
1/1	[======]		0s	122ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	134ms/step
	[======]			
	[]			
1/1	[======]	-	0s	125ms/step
	[======]			
1/1	[=======]	-	0s	131ms/step
	[======]			
	[======]			
	[=======]			
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1/1	[======================================		0s	182ms/step
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1/1	[=======]	-	0s	187ms/step
1/1	[=======]	-	0s	167ms/step
1/1	[=======]	-	0s	200ms/step
1/1	[========]	-	0s	174ms/step
1/1	[=========]		0s	166ms/step
1/1	[========]		0s	
				176ms/step
1/1	[=========		0s	169ms/step
1/1	[=========]		0s	171ms/step
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1/1	[========]	-	0s	183ms/step
1/1	[========]	-	0s	142ms/step
1/1	[========]	-	0s	132ms/step
1/1	[=========]		0s	126ms/step
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				140ms/step
1/1	[=========		0s	132ms/step
1/1	[======================================		0s	125ms/step
1/1	[========]		0s	129ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[========]	-	0s	132ms/step
1/1	[========]	-	0s	136ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[========]		0s	126ms/step
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1/1	[========		0s	131ms/step
1/1	[======================================		0s	125ms/step
1/1	[========]		0s	129ms/step
1/1	[======================================	-	0s	130ms/step
1/1	[=======]	-	0s	122ms/step
1/1	[=========]	-	0s	126ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[========]	-	0s	132ms/step
1/1	[========]		0s	127ms/step
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1/1	[======================================		0s	127ms/step
1/1	[]		0s	129ms/step
1/1	[========]	-	0s	126ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=========]	-	0s	133ms/step
1/1	[========]	-	0s	127ms/step
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1/1	[======================================		0s	128ms/step
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1/1	[=======]	-	0s	128ms/step

1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	124ms/step
1/1	[======]	-	0s	134ms/step
1/1	[======]	-	0s	126ms/step
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1/1	[======]	-	0s	133ms/step
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1/1	[======]	-	0s	174ms/step
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1/1	[=====]	-	0s	138ms/step
1/1	[======]	-	0s	128ms/step
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1/1	[=======]	-	0s	130ms/step
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1/1	[========]	_	0s	177ms/step
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1/1	[=======]	_	0s	172ms/step
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1/1	[=======]	-	0s	175ms/step
1/1	[=======]	-	0s	168ms/step
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1/1	[========]	-	0s	183ms/step
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1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	126ms/step
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1/1	[======]	-	0s	179ms/step
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1/1	[======]	-	0s	184ms/step
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1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	126ms/step
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1/1	[=======]	-	0s	129ms/step
1/1	[======]	-	0s	135ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	_	0s	128ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	_	0s	129ms/step
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1/1	[=======]	_	0s	123ms/step
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1/1	[]	-	0s	128ms/step
1/1	[========]	-	0s	138ms/step
1/1	[=======]	-	0s	130ms/step
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1/1	[=======]	-	0s	134ms/step
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1/1	[======================================	-	0s	132ms/step
1/1	[=======]	-	0s	147ms/step
1/1	[=======]	-	0s	181ms/step
1/1	[=======]	-	0s	194ms/step
1/1	[=======]	-	0s	207ms/step
1/1	[]	-	0s	176ms/step
1/1	[=======]	-	0s	192ms/step
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1/1	[=======]	-	0s	193ms/step
1/1	[=======]	-	0s	175ms/step
1/1	[======================================	-	0s	189ms/step
1/1	[========]	-	0s	186ms/step
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1/1	[======]	-	0s	127ms/step
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1/1	[=======]	-	0s	170ms/step
1/1	[========]	-	0s	186ms/step
1/1	[======================================	-	0s	188ms/step
1/1	[======================================	-	0s	180ms/step
1/1	[========]	-	0s	174ms/step
1/1	[========]	-	0s	170ms/step
1/1	[======================================	-	0s	196ms/step
1/1	[======================================	-	0s	181ms/step
1/1 1/1	[]	_	0s	186ms/step
	[======]	-	0s	165ms/step
1/1 1/1	[==========]	-	0s 0s	140ms/step
1/1	[========]	_	0s	126ms/step 130ms/step
1/1	[========]	_	0s	126ms/step
1/1	[========]	_	0s	134ms/step
1/1	[========]	_	0s	130ms/step
1/1	[========]	_	0s	138ms/step
1/1	[========]	_	0s	133ms/step
1/1	[=========]	_	0s	123ms/step
1/1	[========]	_	0s	142ms/step
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1/1	[========]	-	0s	136ms/step
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1/1	[========]	-	0s	131ms/step
1/1	[======================================	-	0s	135ms/step
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1/1	[======================================			127ms/step
1/1	[=======]			127ms/step
1/1	[]			130ms/step
1/1	[]			142ms/step
1/1	[==========	-	05	127ms/step

1/1	[=======]	-	ØS	131ms/step
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1/1	[=======]	-	0s	135ms/step
1/1	[======]	-	0s	170ms/step
1/1	[======]	-	0s	186ms/step
1/1	[======]	-	0s	175ms/step
1/1	[=======]	-	0s	173ms/step
1/1	[======]	-	0s	188ms/step
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1/1	[=======]	-	0s	167ms/step
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1/1	[========]	_	0s	172ms/step
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1/1	[=======]	_	0s	178ms/step
1/1	[========]	_	0s	183ms/step
1/1	[======]	_	0s	170ms/step
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1/1	[]	_	0s	182ms/step
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1/1	[========]	-	0s	177ms/step
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1/1	[=======]			133ms/step
1/1	ri	-		170mc/c+an

1/1	[]	-	20	T731112/2reh
1/1	[=======]	-	0s	130ms/step
1/1	[========]	-	0s	126ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[========]	-	0s	129ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[========]	-	0s	126ms/step
1/1	[========]	-	0s	134ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	134ms/step
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1/1	[======]	_	0s	129ms/step
1/1	[=======]	_	0s	126ms/step
1/1	[=========]	_	0s	133ms/step
1/1	[=======]	_	0s	125ms/step
1/1	[========]	_	0s	162ms/step
1/1	[======]	_	0s	186ms/step
1/1	[=======]	_	0s	172ms/step
1/1	[=======]	_	0s	179ms/step
1/1	[=======]	_	0s	169ms/step
1/1	[=======]	_	0s	179ms/step
1/1	[=======]	-	0s	172ms/step
1/1	[=======]	_	0s	175ms/step
1/1	[=======]	-	0s	176ms/step
1/1	[========]	-	0s	187ms/step
1/1	[======]	-	0s	175ms/step
1/1	[======]	-	0s	178ms/step
1/1	[======]	-	0s	166ms/step
1/1	[======]	-	0s	169ms/step
1/1	[=========]	-	0s	204ms/step
1/1	[========]	-	0s	181ms/step
1/1	[========]	-	0s	186ms/step
1/1	[=======]	-	0s	179ms/step
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1/1	[]	-	0s	216ms/step
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1/1	[=======]	-	0s	129ms/step
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1/1	[=======]	-	0s	133ms/step
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1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	121ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[]	-	0s	129ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	145ms/step
1/1	[======]	-	0s	133ms/step
1/1	[======]	-	0s	124ms/step
1/1	[=======]	-	0s	126ms/step
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1/1	[======]	-	0s	136ms/step
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1/1	[========]	-	0s	133ms/step
1/1	[=======]	-	0s	185ms/step
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1/1	[=======]	-	0s	205ms/step
1/1	[=======]	_	0s	188ms/step
1/1	[=======]	_	0s	207ms/step
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1/1	[=======]	_	0s	190ms/step
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1/1	[======]	-	0s	127ms/step
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1/1	[=======]	-	0s	140ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[======]	-	0s	126ms/step
1/1	[=======]	_	0s	121ms/step
1/1	[=======]	_	0s	128ms/step
1/1	[=========]	_	0s	122ms/step
1/1	[======]	_	0s	134ms/step
1/1	[]	_	0s	127ms/step
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1/1	[=======]	-	0s	129ms/step
1/1	[========]	-	0s	133ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[======]	-	0s	135ms/step
1/1	[]	-	0s	134ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[======]	-	0s	127ms/step
1/1	[=======]	_	0s	141ms/step
1/1	[=========]	_	0s	132ms/step
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1/1	[========]	-	0s	125ms/step
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1/1	[=======]	-	0s	189ms/step
1/1	[=======]	-	0s	181ms/step
1/1	[=======]	-	0s	192ms/step
1/1	[=======]	-	0s	194ms/step
1/1	[======]	-	0s	177ms/step
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1/1	[======]	-	0s	169ms/step
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1/1	[======]	-	0s	127ms/step
1/1	[========]	-	0s	124ms/step
1/1	[========]	-	0s	131ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[========]	-	0s	126ms/step
1/1	[========]	-	0s	133ms/step
1/1	[]	-	0s	135ms/step
1/1 1/1	[]	-	0s 0s	135ms/step 138ms/step
1/1	[=========]	_	0s	131ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[========]	_	0s	136ms/step
1/1	[======]	_	0s	145ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[=======]	_	0s	125ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[======]	-	0s	186ms/step
1/1	[======]	-	0s	193ms/step
1/1	[======]	-	0s	169ms/step
1/1	[======]	-	0s	201ms/step
1/1	[======]	-	0s	193ms/step
1/1	[======]	-	0s	189ms/step
1/1	[======]	-	0s	180ms/step
1/1	[=========]	-	0s	177ms/step
1/1	[=======]	-	0s	220ms/step
1/1	[=======]	-	0s	198ms/step
1/1	[=======]	-	0s	195ms/step
1/1	[=======]	-	0s	174ms/step
1/1 1/1	[========] [=========]	-	0s 0s	218ms/step 183ms/step
1/1	[]	-	0s	183ms/step
1/1	[========]	_	0s	194ms/step
1/1	[=======]	_	0s	193ms/step
1/1	[=======]	_	0s	144ms/step
1/1	[=======]	_	0s	125ms/step
1/1	[=======]	_	0s	132ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	124ms/step
	[=======]	-		142ms/step
	[]	-		133ms/step
1/1	[========]			127ms/step
1/1	[=======]			129ms/step
1/1	[========]			127ms/step
1/1	[========]	-		134ms/step
	[]	-		128ms/step
	[]	-		135ms/step
	[========]	-		135ms/step
1/1	[=======] r	-		134ms/step

1/1	[======]	-	05	135MS/STEP
1/1	[=======]	-	0s	133ms/step
1/1	[======]	-	0s	131ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[=======]	-	0s	138ms/step
1/1	[========]	-	0s	146ms/step
1/1	[========]	-	0s	137ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[========]	-	0s	124ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[]	-	0s	125ms/step
1/1	[=======] [============================	-	0s	133ms/step
1/1 1/1	[=========]	-	0s 0s	140ms/step
1/1	[=======]	-	0s	124ms/step 135ms/step
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1/1 1/1	[=======]	-	0s 0s	127ms/step 131ms/step
1/1	[=======]	_	0s	135ms/step
1/1	[=======]	_	0s	140ms/step
1/1	[=======]	_	0s	137ms/step
1/1	[========]	_	0s	126ms/step
1/1	[=======]	_	0s	131ms/step
1/1	[========]	_	0s	135ms/step
1/1	[========]	_	0s	128ms/step
1/1	[=======]	_	0s	128ms/step
1/1	[=======]	_	0s	132ms/step
1/1	[========]	_	0s	140ms/step
1/1	[=======]	_	0s	133ms/step
1/1	[=========]	_	0s	135ms/step
1/1	[=======]	_	0s	128ms/step
1/1	[=======]	_	0s	171ms/step
1/1	[=======]	-	0s	183ms/step
1/1	[=======]	-	0s	181ms/step
1/1	[=======]	-	0s	206ms/step
1/1	[========]	-	0s	183ms/step
1/1	[========]	-	0s	174ms/step
1/1	[========]	-	0s	190ms/step
1/1	[========]	-	0s	187ms/step
1/1	[======]	-	0s	173ms/step
1/1	[======]	-	0s	210ms/step
1/1	[======]	-	0s	174ms/step
1/1	[======]	-	0s	200ms/step
1/1	[======]	-	0s	184ms/step
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1/1	[======]	-	0s	179ms/step
1/1	[=======]	-	0s	181ms/step
1/1	[=======]	-	0s	178ms/step
1/1	[=======]	-	0s	167ms/step
1/1	[=======]	-		167ms/step
1/1	[=======]			178ms/step
1/1	[=======]	-		171ms/step
1/1	[=======]	-		178ms/step
1/1	[]	-		180ms/step
1/1	[========]			133ms/step
1/1	[========]			133ms/step 139ms/step
1/1 1/1	[=========] [=========]	-		139ms/step 127ms/step
1/1	[=======]	-		132ms/step
1/1	[=======]	-		140ms/step
1/1	[1	_	ac	122mc/c+an

1/1	[]	-	20	1301112\2 reh
1/1	[======]	-	0s	136ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	141ms/step
1/1	[======]	-	0s	139ms/step
1/1	[======]	-	0s	140ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[======]	-	0s	127ms/step
1/1	[======]	-	0s	139ms/step
1/1	[======]	-	0s	127ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	_	0s	135ms/step
1/1	[======]	_	0s	137ms/step
1/1	[=======]	_	0s	126ms/step
1/1	[=======]	_	0s	130ms/step
1/1	[======]	_	0s	141ms/step
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1/1	[=======]	-	0s	137ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	138ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[======]	-	0s	141ms/step
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1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[======]	-	0s	136ms/step
1/1	[======]	-	0s	146ms/step
1/1	[======]	-	0s	138ms/step
1/1	[]	-	0s	134ms/step
1/1	[=======]	_	0s	133ms/step
1/1	[=======]	_	0s	136ms/step
1/1	[======]	_	0s	124ms/step
1/1	[======]	_	0s	137ms/step
1/1	[=======]	_	0s	133ms/step
1/1	[======]	_	0s	139ms/step
1/1	[======]	_	0s	131ms/step
	[======]	_		
1/1	<u> </u>	-	0s	130ms/step
1/1	[=======]	-	0s	139ms/step
1/1	[=======]	-	0s	139ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[======]	-	0s	135ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	139ms/step
1/1	[======]	-	0s	158ms/step
1/1	[======]	-	0s	182ms/step
1/1	[=======]	-	0s	195ms/step
1/1	[=======]	-	0s	186ms/step
1/1	[======]	-	0s	166ms/step
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1/1			v.s	10/1113/3150
1/1	[========]	_	0s	171ms/step
1/1	[==========]	_	0s	176ms/step
1/1	[=========]	_	0s	165ms/step
1/1	[=======]	_	0s	131ms/step
1/1	[========]	_	0s	132ms/step
1/1	[=======]	_	0s	144ms/step
1/1	[=======]	_	0s	134ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[=======]	_	0s	137ms/step
1/1	[=========]	_	0s	123ms/step
1/1	[=======]	_	0s	140ms/step
1/1	[=======]	_	0s	130ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[]	-	0s	139ms/step
1/1	[]	-	0s	148ms/step
1/1	[]	-	0s	140ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[========]	-	0s	132ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[]	-	0s	133ms/step
1/1	[]	-	0s	139ms/step
1/1 1/1	[]	-	0s 0s	132ms/step 140ms/step
1/1	[]	-	0s	134ms/step
1/1	[========]	_	0s	137ms/step
1/1	[=======]	_	0s	137ms/step
1/1	[========]	_	0s	131ms/step
1/1	[========]	_	0s	129ms/step
1/1	[========]	-	0s	134ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[]	-	0s	133ms/step
1/1	[=======]	-	0s	138ms/step
1/1	[======]	-	0s	137ms/step
1/1	[=======]	-	0s	138ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[]	-	0s	143ms/step
1/1	[=======]	-	0s	131ms/step
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1/1	[======]		0s	172ms/step
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1/1	[========]			
1/1	[========]			166ms/step
1/1	[=======]		0s	170ms/step
1/1	[=======]	-	0s	172ms/step
1/1	[========]	-	0s	169ms/step
1/1	[========]	-	0s	167ms/step
1/1	[========]	-	0s	200ms/step
1/1	[======================================	-	0s	189ms/step
1/1	[=======]	-	0s	172ms/step
1/1	[=======]		0s	184ms/step
1/1	[=======]		0s	180ms/step
1/1	[========]		0s	164ms/step
1/1	[========]		0s	138ms/step
1/1	[=========]		0s	125ms/step
1/1	[=========]		0s	132ms/step
1/1	[=======]		0s	135ms/step
1/1	[========]		0s	133ms/step
1/1	[=========]	-	0s	134ms/step
1/1	[=========]	-	0s	141ms/step
1/1	[========]	-	0s	126ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[======================================	-	0s	138ms/step
1/1	[=======]	-	0s	145ms/step
1/1	[========]	-	0s	134ms/step
1/1	[=======]		0s	134ms/step
1/1	[========]		0s	130ms/step
1/1	[=========]		0s	127ms/step
1/1	[=========]		0s	143ms/step
1/1	[========]		0s	131ms/step
				133ms/step
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1/1	[=======]		0s	133ms/step
1/1	[=========		0s	137ms/step
1/1	[========]		0s	127ms/step
1/1	[=======]	-	0s	141ms/step
1/1	[========]	-	0s	131ms/step
1/1	[=======]	-	0s	143ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[========]	-	0s	134ms/step
1/1	[======]	-	0s	142ms/step
1/1	[=======]	-	0s	130ms/step
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1/1	[========]		0s	134ms/step
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٠.	-		0s	F
1/1	[=======]		0s	141ms/step
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1/1	[=======]	-	0s	133ms/step
1/1	[==========]	-	0s	136ms/step
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1/1	[======]	-	0s	134ms/step
1/1	[======]	-	0s	135ms/step
1/1	[======]	-	0s	142ms/step
1/1	[======]	-	0s	123ms/step
1/1	[======]	-	0s	165ms/step
1/1	[======]	-	0s	181ms/step
1/1	[======]	-	0s	203ms/step
1/1	[======]	-	0s	191ms/step
1/1	[======]	-	0s	207ms/step
1/1	[======]	-	0s	165ms/step
1/1	[======]	-	0s	197ms/step
1/1	[======]	-	0s	201ms/step
1/1	[======]	-	0s	170ms/step
1/1	[]	-	0s	201ms/step
1/1	[]	-	0s	182ms/step
1/1	[]	-	0s	195ms/step
1/1	[]	-	0s	195ms/step
1/1	[======]	-	0s	187ms/step
1/1	[]	-	0s	173ms/step
1/1	[======]	-	0s	188ms/step
1/1	[]	-	0s	190ms/step
1/1	[======]	-	0s	177ms/step
1/1	[]	-	0s	188ms/step
1/1	[]	-	0s	161ms/step
1/1	[======]	-	0s	133ms/step
1/1	[]	-	0s	140ms/step
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1/1	[=======]	-	0s	129ms/step
1/1	[======]	-	0s	126ms/step
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1/1	[=======]	-	0s	134ms/step
1/1	[========]	-	0s	137ms/step
1/1	[=======]	-	0s	148ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[========]	-	0s	181ms/step 178ms/step
1/1 1/1	[========]	-	0s 0s	
1/1	[=======]	_	0s	170ms/step 194ms/step
1/1	[=======]	_	0s	173ms/step
1/1	[=======]	_	0s	171ms/step
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1/1	[=======]	_	0s	194ms/step
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1/1	[=======]	_	0s	161ms/step
1/1	[=======]	_	0s	175ms/step
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1/1	[========]	-	0s	151ms/step
1/1	[========]	-	0s	125ms/step
1/1	[======]	_	0s	136ms/step
1/1 1/1	[========]	_	0s 0s	132ms/step 134ms/step
1/1	[=======]	_	0s	142ms/step
1/1	[=======]	_	0s	137ms/step
1/1	[=======]	_	0s	130ms/step
1/1	[========]	_	0s	136ms/step
1/1	[======]	_	0s	138ms/step
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1/1	[======]	-	0s	149ms/step
1/1	[=======]	-	0s	131ms/step
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1/1	[======]	-	0s	135ms/step
1/1	[======]	-	0s	144ms/step
1/1	[======]	-	0s	139ms/step
1/1	[]	-	0s	132ms/step
1/1	[======]	-	0s	130ms/step
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1/1	[======]	-	ИS	138ms/step

1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	127ms/step
1/1	[======]	-	0s	137ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	-	0s	139ms/step
1/1	[=======]	-	0s	139ms/step
1/1	[=======]	-	0s	139ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	124ms/step
1/1 1/1	[=======]	-	0s	136ms/step
•	[=======]	_	0s	151ms/step 128ms/step
1/1 1/1	[=======]	-	0s 0s	133ms/step
1/1	[======]	-	0s	134ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	_	0s	135ms/step
1/1	[======]	_	0s	153ms/step
1/1	[======]	Ī	0s	134ms/step
1/1	[======]	_	0s	130ms/step
1/1	[======]	_	0s	136ms/step
1/1	[======]	_	0s	143ms/step
1/1	[======]	_	0s	142ms/step
1/1	[=======]	_	0s	145ms/step
1/1	[=======]	_	0s	141ms/step
1/1	[======]	_	0s	132ms/step
1/1	[=======]	_	0s	137ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[======]	-	0s	137ms/step
1/1	[======]	-	0s	163ms/step
1/1	[]	-	0s	201ms/step
1/1	[======]	-	0s	181ms/step
1/1	[]	-	0s	180ms/step
1/1	[======]	-	0s	198ms/step
1/1	[======]	-	0s	190ms/step
1/1	[=======]	-	0s	175ms/step
1/1	[=======]	-	0s	201ms/step
1/1	[=======]	-	0s	185ms/step
1/1	[=======]	-	0s	220ms/step
1/1	[=======]	-	0s	175ms/step
1/1	[]	-	0s	164ms/step
1/1	[=======]	-	0s	181ms/step
1/1	[======]	-	0s 0s	181ms/step 174ms/step
1/1 1/1	[======]	_	0s	187ms/step
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1/1	[======]		0s	139ms/step
1/1	[=======]	-	0s	141ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[======]	-	0s	137ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[======]	-	0s	141ms/step
1/1	[=======]	-	0s	142ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[======]	-	0s	134ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	140ms/step
1/1	[======]	_	0s	140ms/step
1/1	[=======]	_	0s	128ms/step
1/1	[=======]	_	0s	
1/1	[======]	_	0s	140ms/step
1/1	[======]	_		142ms/step
1/1	[=======]	_	0s	138ms/step
1/1	[======]	_		141ms/step
1/1	[=======]	_	0s	138ms/step
1/1	[========]	_	0s	138ms/step
1/1	[======]	_	0s	145ms/step
1/1	[========]	_		138ms/step
1/1	[======]	_		132ms/step
1/1	[=======]	_	0s	148ms/step
1/1	[=======]	_	0s	
1/1				
	[]	-	0s	138ms/step
1/1 1/1	[========]	-	0s 0s	129ms/step 145ms/step
-	•	-		
1/1 1/1	[]	-	0s	
•	[========]	-	0s	140ms/step
1/1	[========]	-	0s	130ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[]	-	05	132ms/step
1/1	[========]	-	0s	
1/1	[========]	-	0s	133ms/step
1/1	[========]	-		131ms/step
1/1	[========]	-	0s	139ms/step
1/1	[========]	-	0s	143ms/step
1/1	[=======]	-	0s	139ms/step
1/1	[=======]	-	0s	172ms/step
1/1	[=======]	-	0s	188ms/step
1/1	[=======]	-	0s	176ms/step
1/1	[=======]	-	0s	
1/1	[=======]	-	0s	179ms/step
1/1	[=======]	-	0s	
1/1	[=======]	-	0s	347ms/step
1/1	[=======]	-	0s	332ms/step
1/1	[=======]	-	0s	291ms/step
1/1	[=======]	-	0s	282ms/step
1/1	•	-	0s	276ms/step
	[========]	-	0s	
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1/1	[=======]	-		226ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[========]	-	0s	127ms/step
1/1	[=======]	-	0s	141ms/step
1/1	[=======]	-	0s	169ms/step
1/1	[=======]	-	0s	138ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[========]	-	0s	133ms/step
1/1	[=======]	-	0s	139ms/step
1/1	[=======]	-	0s	139ms/step
1/1	[=======]	-	0s	142ms/step
1/1 1/1	[=======]	-	0s 0s	140ms/step 134ms/step
1/1	[======]	-	0s	129ms/step
1/1	[=======]	_	0s	141ms/step
1/1	[======]	_	0s	129ms/step
1/1	[=======]	_	0s	133ms/step
1/1	[=======]	_	0s	131ms/step
1/1	[=======]	_	0s	131ms/step
1/1	[======]	_	0s	138ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[======]	_	0s	134ms/step
1/1	[=======]	-	0s	147ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[=======]	-	0s	143ms/step
1/1	[========]	-	0s	178ms/step
1/1	[======]	-	0s	193ms/step
1/1	[======]	-	0s	205ms/step
1/1	[======]	-	0s	168ms/step
1/1	[======]	-	0s	194ms/step
1/1	[======]	-	0s	175ms/step
1/1	[======]	-	0s	187ms/step
1/1	[======]	-	0s	376ms/step
1/1	[=======]	-	0s	182ms/step
1/1	[=======]	-	0s	203ms/step
1/1	[=======]	-	0s	285ms/step
1/1	[]	-	0s	258ms/step
1/1	[=======]	-	0s	271ms/step
1/1 1/1	[==========]	-	0s 0s	329ms/step 422ms/step
1/1	[=======]	_	0s	445ms/step
1/1	[=======]	_	0s	296ms/step
1/1	[======]	_	0s	350ms/step
1/1	[=======]	_	0s	400ms/step
1/1	[======]	_	0s	412ms/step
1/1	[=======]	-	0s	310ms/step
1/1	[=======]	-	0s	263ms/step
1/1	[=======]	-	0s	231ms/step
1/1	[========]	-	0s	169ms/step
1/1	[======]	-	0s	178ms/step
1/1	[======]	-	0s	180ms/step
1/1	[======]	-	0s	172ms/step
1/1	[======]	-	0s	188ms/step
1/1	[]	-		186ms/step
1/1	[======]			203ms/step
1/1	[======]			169ms/step
1/1	[=======]			176ms/step
1/1	[=======]	-		196ms/step
1/1	[=======]	-		216ms/step
1/1	•	-		181ms/step
1/1	[=======]	-		175ms/step
1/1	[=======] r	-	05	164ms/step

1/1	[========]	-	ØS	T&TW2\2£6b
1/1	[======]	-	0s	135ms/step
1/1	[=======]	-	0s	141ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[========]	-	0s	133ms/step
1/1	[========]	-	0s	141ms/step
1/1	[========]	-	0s	136ms/step
1/1	[========]	-	0s	131ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[========]	-	0s	143ms/step
1/1	[=======]	-	0s	139ms/step
1/1 1/1	[=======]	-	0s 0s	131ms/step 130ms/step
1/1	[=======]	_	0s	131ms/step
1/1	[=======]	_	0s	133ms/step
1/1	[========]	_	0s	138ms/step
1/1	[=======]	_	0s	141ms/step
1/1	[=======]	_	0s	136ms/step
1/1	[========]	_	0s	132ms/step
1/1	[=======]	_	0s	138ms/step
1/1	[======]	_	0s	134ms/step
1/1	[======]	_	0s	141ms/step
1/1	[=======]	_	0s	137ms/step
1/1	[=======]	_	0s	140ms/step
1/1	[======]	_	0s	153ms/step
1/1	[=======]	_	0s	186ms/step
1/1	[=======]	-	0s	193ms/step
1/1	[=======]	-	0s	177ms/step
1/1	[=======]	-	0s	197ms/step
1/1	[========]	-	0s	187ms/step
1/1	[======]	-	0s	182ms/step
1/1	[======]	-	0s	185ms/step
1/1	[======]	-	0s	196ms/step
1/1	[======]	-	0s	167ms/step
1/1	[======]	-	0s	200ms/step
1/1	[=======]	-	0s	164ms/step
1/1	[======]	-	0s	183ms/step
1/1	[========]	-	0s	175ms/step
1/1	[========]	-	0s	194ms/step
1/1	[========]	-	0s	181ms/step
1/1	[=======]	-	0s	188ms/step
1/1	[=======]	-	0s	177ms/step
1/1	[=======]	-	0s	160ms/step
1/1 1/1	[======]	-	0s 0s	170ms/step 165ms/step
1/1	[======]	-	0s	137ms/step
1/1	[=======]	_	0s	135ms/step
1/1	[=======]	_	0s	141ms/step
1/1	[=======]	_	0s	128ms/step
1/1	[=======]	_	0s	131ms/step
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1/1	[======]	_		137ms/step
1/1	[========]	-		137ms/step
1/1	[======]	-		151ms/step
1/1	[======]	-		145ms/step
1/1	[=======]	-	0s	141ms/step
1/1	[======]	-	0s	136ms/step
1/1	[======]	-	0s	140ms/step
1/1	[]	-		138ms/step
1 /1	Г1		00	1/0mc/c+on

1/1	[]	-	05	1401115/5tep
1/1	[]	-	0s	144ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	143ms/step
1/1	[======================================	-	0s	143ms/step
1/1	[=========]	-	0s	133ms/step
1/1	[=======]	-	0s	141ms/step
1/1	[=======]	-	0s	148ms/step
1/1	[========]	-	0s	144ms/step
1/1 1/1	[]	-	0s	141ms/step 138ms/step
1/1	[]	-	0s 0s	145ms/step
1/1	[]	_	0s	157ms/step
1/1	[=======]	_	0s	145ms/step
1/1	[=======]	_	0s	152ms/step
1/1	[=======]	-	0s	138ms/step
1/1	[=======]	-	0s	154ms/step
1/1	[=======]	-	0s	142ms/step
1/1	[========]	-	0s	134ms/step
1/1	[========]	-	0s	147ms/step
1/1	[=======]	-	0s	141ms/step
1/1	[=======]	-	0s	150ms/step
1/1	[=======]	-	0s	139ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	157ms/step
1/1	[=======]	-	0s	144ms/step
1/1	[]	-	0s	145ms/step
1/1	[=======]	-	0s	143ms/step
1/1	[=======]	-	0s	138ms/step
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1/1	[========]	-	0s	172ms/step
1/1 1/1	[=========]	-	0s 0s	183ms/step 211ms/step
1/1	[=======]	_	0s	184ms/step
1/1	[=========]	_	0s	197ms/step
1/1	[======]	_	0s	179ms/step
1/1	[=======]	_	0s	190ms/step
1/1	[=======]	_	0s	174ms/step
1/1	[======]	-	0s	200ms/step
1/1	[=======]	-	0s	194ms/step
1/1	[=======]	-	0s	197ms/step
1/1	[=======]	-	0s	187ms/step
1/1	[=======]	-	0s	176ms/step
1/1	[=======]	-	0s	171ms/step
1/1	[=======]	-	0s	173ms/step
1/1	[]	-	0s	210ms/step
1/1	[=========]	-	0s	183ms/step
1/1	[========]	-	0s	188ms/step
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1/1 1/1	•	-		135ms/step
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1/1	- I	-		130ms/step
1/1	[======]	-		137ms/step
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1/1	[======]	_		147ms/step
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1/1	Γ=====================================	-	۵c	135mc/sten

1/1	[========]		0s	133ms/step
1/1	[========]		0s	142ms/step
1/1	[]	-	0s	131ms/step
1/1	[======================================	_	0s	138ms/step
1/1	[==========]	-	0s	139ms/step
1/1	[]	_	0s	132ms/step
1/1	[========]	_	0s	133ms/step
	[=========]	_		137ms/step
1/1	[==========	-	0s	133ms/step
1/1 1/1	[===========	_	0s 0s	134ms/step
1/1	[=======]	-	0s	144ms/step
1/1	[]	-	0s	133ms/step
	[]	_		142ms/step
1/1 1/1	[==========	-	0s	132ms/step
1/1	[]	-	0s 0s	141ms/step
1/1	[========]	-	0s	142ms/step
1/1	[=========]	-	0s	130ms/step
1/1	[=========]	-	0s	139ms/step
1/1	[=========]	_	0s	129ms/step
1/1	[===========	_	0s	140ms/step
1/1	[=========]	-	0s	138ms/step
1/1	[==========]	-	0s	134ms/step
1/1	[======================================	-	0s	129ms/step
1/1	[======================================	-	0s	138ms/step
1/1	[==========]	-	0s	136ms/step
1/1	[========]	_	0s	144ms/step
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1/1	[======================================	-	0s	135ms/step
1/1	[========]		0s	144ms/step
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1/1	[========]		0s	137ms/step
1/1	[=========]	-	0s	132ms/step
1/1	[========]	-	0s	134ms/step
1/1	[=========]	-	0s	140ms/step
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1/1	[========]	-	0s	130ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=========]	-	0s	138ms/step
1/1	[======================================	-	0s	144ms/step
1/1	[========]	-	0s	173ms/step
1/1	[========]	-	0s	198ms/step
1/1	[=======]	-	0s	204ms/step
1/1	[=======]	-	0s	201ms/step
1/1	[======]	-	0s	202ms/step
1/1	[========]	-	0s	209ms/step
1/1	[========]	-	0s	193ms/step
1/1	[]	-	0s	212ms/step
1/1	[========]	-	0s	164ms/step
1/1	[==========]	-	0s	202ms/step
1/1				193ms/step
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	[=======]	-	0s	134ms/step
	[======]			
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1/1	[=======]			141ms/step
1/1	[======]			150ms/step
1/1	[=======]			135ms/step
1/1	-			135ms/step
1/1				141ms/step
1/1				134ms/step
1/1				139ms/step
1/1				134ms/step
1/1	-			137ms/step
1/1				131ms/step
1/1	[=======]			135ms/step
1/1	[=======]			160ms/step
1/1	[=======]			138ms/step
1/1	[=======]	_		136ms/step
1/1	1			134ms/step
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1/1	[======]			133ms/step
1/1	[=======]			143ms/step
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1/1	[=======]			139ms/step
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1/1	1			139ms/step
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1/1	[=======]			130ms/step
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1/1	[======]		0s	128ms/step
1/1	-			129ms/step
1/1	[=======]	-	0s	150ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[========]	-	0s	131ms/step
1/1	[=======]	-	0s	143ms/step
1/1	[=======]	-	0s	162ms/step
1/1	[=======]	-	0s	206ms/step
1/1	[=======]	-	0s	215ms/step
1/1	[======]	-	0s	211ms/step
	[======]			
1/1	[======]	-	0s	220ms/step
1/1	[=======]	-	0s	199ms/step
	[======]			
	[]			
1/1	[======]	-	0s	190ms/step

1/1	[======]	-	0s	189ms/step
1/1	[=======]	-	0s	202ms/step
1/1	[======]	-	0s	177ms/step
1/1	[======]	-	0s	187ms/step
1/1	[======]	-	0s	211ms/step
1/1	[======]	-	0s	175ms/step
1/1	[======]	-	0s	200ms/step
1/1	[=======]	-	0s	169ms/step
1/1	[======]	-	0s	167ms/step
1/1	[=======]	-	0s	184ms/step
1/1	[======]	-	0s	181ms/step
1/1	[======]	-	0s	187ms/step
1/1	[======]	-	0s	134ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	153ms/step
1/1	[======]	-	0s	141ms/step
1/1	[======]	-	0s	137ms/step
1/1	[======]	-	0s	136ms/step
1/1	[======]	-	0s	138ms/step
1/1	[======]	-	0s	138ms/step
1/1	[======]	-	0s	140ms/step
1/1	[======]	-	0s	138ms/step
1/1	[======]	-	0s	127ms/step
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1/1	[======]	-	0s	133ms/step
1/1	[======]	-	0s	142ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	133ms/step
1/1	[======]	-	0s	136ms/step
1/1	[======]	-	0s	135ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	139ms/step
1/1	[======]	-	0s	131ms/step
1/1	[]	-	0s	134ms/step
1/1	[======]	-	0s	137ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	144ms/step
1/1	[======]	-	0s	149ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	128ms/step
1/1	[=======]	-	0s	149ms/step
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1/1	[======]	-	0s	142ms/step
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1/1	[=======]	-	0s	134ms/step
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1/1 [======]	-	0s	173ms/step
1/1 [======]	-	0s	166ms/step
1/1 [======]	-	0s	180ms/step
1/1 [======]	-	0s	199ms/step
1/1 [======]	-	0s	173ms/step
1/1 [======]	-	0s	169ms/step
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1/1 [======]	-	0s	168ms/step
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1/1 [========]	_		136ms/step
metrics for test:			, - зер

accuracy 0.9020: balanced accuracy 0.9020:

```
1 model = Model()
2 model.load('best_train_small')
3
4 if TEST_ON_LARGE_DATASET:
5    pred_1 = model.test_on_dataset(d_test_tiny)
6    Metrics.print_all(d_test_tiny.labels, pred_1, 'test')
```

Downloading... From: https://drive.google.com/uc?export=download&id=1-iDYVa2CxinJ82482IGt kvOZRDH1Wel To: /content/best train small.h5 107M/107M [00:01<00:00, 57.1MB/s] 100% 90/90 [00:17<00:00, 5.67it/s] 1/1 [======] - 1s 1s/step 1/1 [=======] - 0s 132ms/step 1/1 [=======] - 0s 143ms/step 1/1 [=======] - 0s 128ms/step 1/1 [======] - 0s 127ms/step 1/1 [========] - 0s 130ms/sten 1/1 [=======] - 0s 128ms/step 1/1 [=======] - 0s 132ms/step 1/1 [=======] - 0s 132ms/step 1/1 [=======] - 0s 128ms/step 1/1 [=======] - 0s 130ms/step 1/1 [======] - 0s 133ms/step 1/1 [=======] - 0s 191ms/step 1/1 [=======] - 0s 187ms/step 1/1 [=======] - 0s 170ms/step 1/1 [======] - 0s 172ms/step 1/1 [=======] - 0s 166ms/step 1/1 [======] - 0s 170ms/step 1/1 [=======] - 0s 174ms/step 1/1 [======] - 0s 173ms/step 1/1 [=======] - 0s 173ms/step 1/1 [=======] - 0s 179ms/step 1/1 [=======] - 0s 169ms/step 1/1 [=======] - 0s 173ms/step 1/1 [======] - 0s 176ms/step 1/1 [=======] - 0s 171ms/step 1/1 [=======] - 0s 166ms/step 1/1 [=======] - 0s 169ms/step 1/1 [=======] - 0s 167ms/step 1/1 [=======] - 0s 167ms/step 1/1 [======] - 0s 154ms/step 1/1 [=======] - 0s 130ms/step 1/1 [=======] - 0s 126ms/step 1/1 [======] - 0s 139ms/step 1/1 [=======] - 0s 125ms/step 1/1 [=======] - 0s 134ms/step 1/1 [=======] - 0s 121ms/step 1/1 [======] - 0s 132ms/step

```
1/1 [=============] - 0s 127ms/step
1/1 [===========] - 0s 136ms/step
1/2 model = Model()
2 model.load('best_train_small')
3
4 if TEST_ON_LARGE_DATASET:
5 pred_1 = model.test_on_dataset(d_test_small)
6 Metrics.print_all(d_test_small.labels, pred_1, 'test')
```

Downloading... From: https://drive.google.com/uc?export=download&id=1-iDYVa2CxinJ82482IGt kvOZRDH1Wel To: /content/best train small.h5 100% | 107M/107M [00:00<00:00, 111MB/s] 100% 1800/1800 [05:44<00:00, 4.24it/s] 1/1 [======] - 1s 835ms/step 1/1 [=======] - 0s 122ms/step 1/1 [=======] - 0s 127ms/step 1/1 [======] - 0s 124ms/step 1/1 [=======] - 0s 131ms/step 1/1 [========] - 0s 130ms/sten 1/1 [=======] - 0s 128ms/step 1/1 [=======] - 0s 124ms/step 1/1 [=======] - 0s 127ms/step 1/1 [=======] - 0s 126ms/step 1/1 [=======] - 0s 129ms/step 1/1 [=======] - 0s 128ms/step 1/1 [======] - 0s 123ms/step 1/1 [=======] - 0s 124ms/step 1/1 [======] - 0s 131ms/step 1/1 [======] - 0s 125ms/step 1/1 [=======] - 0s 128ms/step 1/1 [=======] - 0s 126ms/step 1/1 [=======] - 0s 128ms/step 1/1 [=======] - 0s 126ms/step 1/1 [=======] - 0s 124ms/step 1/1 [=======] - 0s 128ms/step 1/1 [======] - 0s 124ms/step 1/1 [=======] - 0s 127ms/step 1/1 [=======] - 0s 123ms/step 1/1 [=======] - 0s 127ms/step 1/1 [======] - 0s 131ms/step 1/1 [=======] - 0s 129ms/step 1/1 [======] - 0s 135ms/step 1/1 [=======] - 0s 140ms/step 1/1 [=======] - 0s 143ms/step 1/1 [=======] - 0s 126ms/step 1/1 [======] - 0s 123ms/step 1/1 [=======] - 0s 123ms/step 1/1 [=======] - 0s 126ms/step 1/1 [======] - 0s 124ms/step

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1/1	[=======]	-	0s	186ms/step
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1/1	[=======]	-	0s	163ms/step
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1/1 [========]	-	0s	172ms/step
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1/1	[======]	-	0s	128ms/step
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1/1	[=======]	-	0s	137ms/step
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1/1	[======]	_	0s	125ms/step
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1/1 [=======]	-	0s	125ms/step
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1/1	[======]	-	0s	180ms/step
1/1	[=======]	-	0s	179ms/step
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1/1	[=======]	-	0s	122ms/step
1/1	[======]	-	0s	131ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[======]	-	0s	123ms/step
1/1	[=======]	-	0s	124ms/step
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1/1	[======]	-	0s	128ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[======]	-	0s	134ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	126ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[]	-	0s	128ms/step
1/1	[]	-	0s	129ms/step
1/1 1/1	[======]	_	0s 0s	133ms/step 128ms/step
1/1	[=======]	_	0s	126ms/step
1/1	[======]	_	0s	128ms/step
1/1	[=======]	_	0s	127ms/step
1/1	[======]	_	0s	124ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[======]	-	0s	133ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[======]	-	0s	129ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[]	-	0s	129ms/step
1/1	[======]	-	0s	134ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	131ms/step
1/1 1/1	[]	-	0s	131ms/step
1/1	[]	-		131ms/step 128ms/step
1/1	[======]	-		122ms/step
1/1	[=======]	-		124ms/step
1/1	[======]	_		129ms/step
1/1	[========]	_		123ms/step
1/1	[=======]	-		127ms/step
1/1	[======]	-		134ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[]	-		131ms/step
1 /1	r1		00	120mc/c+an

1/1	[======]	-	62	Tomins/ 2 reh
1/1	[=======]	-	0s	127ms/step
1/1	[======]	-	0s	132ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[========]	-	0s	133ms/step
1/1	[========]	-	0s	127ms/step
1/1	[========]	-	0s	128ms/step
1/1	[=======]	-	0s	148ms/step
1/1	[=======]	-	0s	168ms/step
1/1 1/1	[=========]	-	0s 0s	170ms/step
1/1	[=======]	_	0s	173ms/step 171ms/step
1/1	[======]	_	0s	177ms/step
1/1	[=======]	_	0s	170ms/step
1/1	[======]	_	0s	180ms/step
1/1	[=======]	_	0s	172ms/step
1/1	[=======]	_	0s	183ms/step
1/1	[=======]	_	0s	168ms/step
1/1	[]	-	0s	167ms/step
1/1	[=======]	-	0s	170ms/step
1/1	[======]	-	0s	163ms/step
1/1	[======]	-	0s	175ms/step
1/1	[======]	-	0s	174ms/step
1/1	[=======]	-	0s	178ms/step
1/1	[=======]	-	0s	161ms/step
1/1	[=======]	-	0s	169ms/step
1/1	[======]	-	0s	128ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[========]	-	0s	126ms/step
1/1	[=========]	-	0s	121ms/step
1/1	[]	-	0s	123ms/step
1/1 1/1	[=======]	-	0s 0s	128ms/step 137ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[=======]	_	0s	134ms/step
1/1	[=======]	_	0s	132ms/step
1/1	[=======]	_	0s	126ms/step
1/1	[=======]	_	0s	124ms/step
1/1	[=======]	_	0s	126ms/step
1/1	[]	-	0s	123ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	128ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[========]	-	0s	120ms/step
1/1				135ms/step
1/1				124ms/step
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1/1	[=======]			126ms/step
1/1	[=======]			135ms/step
1/1	[========]			131ms/step
1/1	[=========]			135ms/step
1/1				130ms/step
1/1	[=======]	-	0s	128ms/step
1/1	Ī	-	ac	177mc/c+an

1/1				
1/1	[======]	-	0s	131ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[======]	-	0s	126ms/step
1/1	[=======]	-	0s	125ms/step
1/1 1/1	[]	-	0s 0s	132ms/step
1/1	[======]	-	0s	131ms/step 125ms/step
1/1	[======]	_	0s	128ms/step
1/1	[======]	_	0s	133ms/step
1/1	[======]	_	0s	137ms/step
1/1	[=======]	_	0s	136ms/step
1/1	[======]	-	0s	129ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[======]	-	0s	131ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	178ms/step
1/1	[======]	-	0s	182ms/step
1/1	[======]	-	0s	176ms/step
1/1	[======]	-	0s	175ms/step
1/1	[======]	-	0s	174ms/step
1/1	[]	-	0s	177ms/step
1/1	[======]	-	0s	169ms/step
1/1	[=======]	-	0s	175ms/step
1/1	[=======]	-	0s	164ms/step
1/1	[=======]	-	0s	178ms/step
1/1	[=======]	-	0s	171ms/step
1/1 1/1	[]	-	0s	172ms/step
1/1	[=======]	_	0s 0s	165ms/step 171ms/step
1/1	[======]	_	0s	173ms/step
1/1	[======]	_	0s	170ms/step
1/1	[=======]	_	0s	168ms/step
1/1	[======]	_	0s	129ms/step
1/1	[=======]	_	0s	140ms/step
1/1	[=======]	_	0s	130ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[======]	-	0s	123ms/step
1/1	[======]	-	0s	127ms/step
1/1	[======]	-	0s	135ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	129ms/step
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1/1	[======]	_		
1/1	[======]	_	0s	137ms/step
1/1	[======]	_	0s	125ms/step
1/1	[======]	_	0s	121ms/step
1/1	[======]	_	0s	129ms/step
1/1	[======]	_	0s	126ms/step
1/1	[======]	_	0s	128ms/step
1/1	[======]	_	0s	142ms/step
1/1	[======]	_	0s	127ms/step
1/1	[=======]	_	0s	124ms/step
1/1	[======]	-	0s	128ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[======]	-	0s	130ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	123ms/step
1/1	[======]	-	0s	135ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	133ms/step
1/1	[======]	-	0s	126ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	144ms/step
1/1	[]	-	0s	179ms/step
1/1 1/1	[=======]	_	0s 0s	195ms/step 166ms/step
1/1	[======]	_	0s	167ms/step
1/1	[======]	_	0s	178ms/step
1/1	[======]	_	0s	173ms/step
1/1	[========]	_	0s	174ms/step
1/1	[======]	_	0s	169ms/step
1/1	[======]	_	0s	172ms/step
1/1	[======]	_	0s	180ms/step
1/1	[======]	-	0s	182ms/step
1/1	[=======]	-	0s	180ms/step
1/1	[=======]	-	0s	178ms/step
1/1	[=======]	-	0s	171ms/step
1/1	[======]	-	0s	173ms/step
1/1	[======]	-	0s	169ms/step
1/1	[======]	-	0s	166ms/step
1/1	[======]	-	0s	164ms/step
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1/1	[======]	-	05	124IIIS/STED

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1/1	[======]	-	0s	130ms/step
1/1	[]		0s	129ms/step
1/1	[=======]			130ms/step
1/1	[=======]		0s	140ms/step
1/1	[======]		0s	130ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]		0.5	140ms/step
1/1	[=========]	_		130ms/step
1/1 1/1	[=======]	_	0.5	129ms/step 129ms/step
1/1	[=======]	_	0s	130ms/step
1/1	[======]	_		127ms/step
1/1	[======]	_	0s	126ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[========]	-	0s	129ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	125ms/step
1/1	[======]	-	0s	128ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[======]	-	0s	136ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	127ms/step
1/1	[=======]	-		135ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-		129ms/step
1/1	[=======]	-		134ms/step
1/1	[=======]	-	0.5	122ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[======]	-	0s 0s	128ms/step 137ms/step
1/1 1/1	[========]	-	0S	125ms/step
1/1	[======]		0s	132ms/step
1/1	[======]	_	0s	135ms/step
1/1	[=======]	_	0s	127ms/step
1/1	[========]	_		130ms/step
1/1	[======]	_		127ms/step
1/1	[=======]	_		124ms/step
1/1	[========]	-	0s	134ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	127ms/step
1/1	[======]	-	0s	140ms/step
1/1	[======]	-	0s	125ms/step
1/1	[======]		0s	123ms/step
1/1	[]		0s	136ms/step
1/1	[=======]			180ms/step
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1/1	[======]	-	0s	166ms/step
1/1	[======]	-	0s	193ms/step
1/1	[=======]	-	0s	177ms/step
1/1	[======]	-	0s	171ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	-	0s	143ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[======]	-	0s	146ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[======]	-	0s	129ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	141ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[======]	-	0s	130ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[======]	-	0s	124ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[]	-	0s	126ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[]	-	0s	132ms/step
1/1	[========]	-	0s	127ms/step
1/1	[======]	-	0s	127ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	127ms/step
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1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	128ms/step
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1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[]	-	0s	124ms/step
1/1	[======]	-	0s	121ms/step
1/1	[]	-	0s	127ms/step
1/1	[======]	-	0s	129ms/step
1/1	[========]	-	0s	135ms/step
1/1	[======]	-	0s	125ms/step
1/1	[======]	-	0s	131ms/step
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1/1	[========]	-	0s	124ms/step
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			_	
1/1	[=======]	-	0s	172ms/step
1/1	[=======]	-	0s	169ms/step
1/1	[========]	-	0s	176ms/step
1/1	[========]	-	0s	175ms/step
1/1	[========]	-	0s	167ms/step
1/1	[=========]	-	0s	180ms/step
1/1	[=======]	-	0s	180ms/step
1/1	[======]	-	0s	175ms/step
1/1	[======]	-	0s	170ms/step
1/1	[========]	-	0s	182ms/step
1/1	[========]	-	0s	180ms/step
1/1	[=======]	-	0s	168ms/step
1/1	[=======]	-	0s	168ms/step
1/1	[========]	-	0s	177ms/step
1/1	[=======]	-	0s	171ms/step
1/1	[=======]	-	0s	190ms/step
1/1	[=======]	-	0s	165ms/step
1/1	[========]	-	0s	167ms/step
1/1	[=======]	-	0s	168ms/step
1/1	[========]	-	0s	173ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	140ms/step
1/1	[=======]	-	0s	139ms/step
1/1	[========]	-	0s	130ms/step
1/1	[=======]	-	0s	142ms/step
1/1	[========]	-	0s	138ms/step
1/1	[========]	-	0s	137ms/step
1/1	[========]	-	0s	137ms/step
1/1	[========]	-	0s	137ms/step
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1/1	[=======]	_	0s	129ms/step
1/1	[=======]	_	0s	135ms/step
1/1	[=======]	_	0s	149ms/step
1/1	[=======]	_	0s	141ms/step
1/1	[=======]	_	0s	139ms/step
1/1	[=======]	_	0s	138ms/step
1/1	[=======]	_	0s	139ms/step
1/1	[=======]	_	0s	151ms/step
1/1	[======]	_	0s	139ms/step
1/1	[=======]	_	0s	136ms/step
1/1	[======]	_	0s	131ms/step
1/1	[=======]	_	0s	130ms/step
1/1	[=======]	_	0s	135ms/step
1/1	[=======]	_	0s	137ms/step
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1/1	[========]	-	0s	135ms/step
1/1	[======]	-	0s	135ms/step
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1/1	[======]			
1/1	[======]	-	0s	133ms/step
1/1	[======]	-	0s	136ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[]	-		129ms/step
1/1	[======]	-	0s	136ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	169ms/step
1/1	[=======]	-	0s	179ms/step
1/1	[=======]	-	0s	182ms/step
1/1	[======]	-	0s	188ms/step
1/1	[=======]	-	0s	181ms/step
1/1	[=======]	-	0s	170ms/step
1/1	[]		0s	189ms/step
1/1	[======]	-	0s	172ms/step
1/1	[======]	-	0s	175ms/step
	[=======]	-	0s	178ms/step
1/1	[======]		0s	193ms/step
1/1	[]	-		174ms/step
1/1	[=======]	-	0s	179ms/step
1/1	[======]	-	0s	173ms/step
1/1	[]	-	0s	173ms/step
1/1	[=======]		0s	160ms/step
1/1	[======]	-	0s	140ms/step
1/1	[======]	-	0s	130ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[=======]		0s	132ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	138ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[]	-	0s	129ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	139ms/step
1/1	[=======]	-	0s	132ms/step
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1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	140ms/step
1/1	[]			129ms/step
1/1	[=======]			126ms/step
1/1	[=======]			133ms/step
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1/1	[=======]			132ms/step
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1/1	[]			129ms/step
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1/1	[======]	-	ИS	ı∠bms/step

1/1	[======]	-	0s	125ms/step
1/1	[======]	-	0s	145ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	128ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[======]	-	0s	127ms/step
1/1	[======]	-	0s	134ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	129ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	125ms/step
1/1	[======]	-	0s	133ms/step
1/1	[=======]	-	0s	165ms/step
1/1	[======]	-	0s	174ms/step
1/1	[======]	-	0s	171ms/step
1/1	[======]	-	0s	176ms/step
1/1	[======]	-	0s	172ms/step
1/1	[=======]	-	0s	189ms/step
1/1	[======]	-	0s	183ms/step
1/1	[=======]	-	0s	169ms/step
1/1	[======]	-	0s	168ms/step
1/1	[=======]	-	0s	183ms/step
1/1	[=======]	-	0s	173ms/step
1/1	[======]	-	0s	175ms/step
1/1	[=======]	-	0s	166ms/step
1/1	[=======]	-	0s	182ms/step
1/1	[=======]	-	0s	176ms/step
1/1	[]	-	0s	170ms/step
1/1	[=======]	-	0s	171ms/step
1/1	[======]	-	0s	170ms/step
1/1	[========]	-	0s	168ms/step
1/1	[=======]	-	0s	154ms/step
1/1	[======]	-	0s	136ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[=======]	-	0s	146ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[]	-	0s	131ms/step
1/1	[========]	-	0s	129ms/step
1/1	[]	-	0s	132ms/step
	[=======]			
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	[======]			
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	[=======]			123ms/step
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1/1 [========]	-		127ms/step
1/1 [=======]	-		126ms/step
1/1 [======]	-	0s	132ms/step
1/1 [======]	-	0s	126ms/step
1/1 [=======]	-	0s	133ms/step
1/1 [=======]	-	0s	126ms/step
1/1 [=======]	-	0s	128ms/step
1/1 [=======]	-	0s	132ms/step
1/1 [=======]	_	0s	122ms/step
1/1 [=======]	_	0s	141ms/step
1/1 [=======]	_	0s	127ms/step
1/1 [=======]	_	0s	124ms/step
1/1 [=======]	_	0s	128ms/step
· •	_	0s	125ms/step
, ,	-		,
1/1 []	-	0s	131ms/step
1/1 [=======]	-	0s	131ms/step
1/1 [========]	-	0s	125ms/step
1/1 [=======]	-	0s	125ms/step
1/1 [======]	-	0s	125ms/step
1/1 [=======]	-	0s	123ms/step
1/1 [=======]	-	0s	128ms/step
1/1 [=======]	-	0s	128ms/step
1/1 [=======]	-	0s	134ms/step
1/1 [=======]	-	0s	128ms/step
1/1 [=======]	_	0s	125ms/step
1/1 [=======]	_	0s	128ms/step
1/1 [=======]	_	0s	128ms/step
1/1 [=======]	_	0s	130ms/step
1/1 [======]	_	0s	121ms/step
, ,			•
1/1 []	-	0s	128ms/step
1/1 [===================================	-	0s	129ms/step
1/1 [========]	-	0s	135ms/step
1/1 [========]	-	0s	184ms/step
1/1 [=======]	-	0s	170ms/step
1/1 [=======]	-	0s	172ms/step
1/1 [======]	-	0s	177ms/step
1/1 [=======]	-	0s	173ms/step
1/1 [=======]	-	0s	175ms/step
1/1 [=======]	-	0s	169ms/step
1/1 [=======]	-	0s	176ms/step
1/1 [========]	-	0s	164ms/step
1/1 [=======]	_	0s	190ms/step
1/1 [=======]	_	0s	173ms/step
1/1 [=======]	_	0s	169ms/step
1/1 [=======]	_	0s	169ms/step
1/1 [=======]	_	0s	173ms/step
1/1 [=======]	_	0s	172ms/step
1/1 [=======]	_	0s	166ms/step
1/1 [=======]	_	0s	181ms/step
1/1 []	_	0s	175ms/step
	_		•
1/1 [===================================	-	0s	178ms/step
1/1 [===================================	-		178ms/step
1/1 [===================================			•
1/1 [===================================			•
1/1 [========]			-
1/1 [=======]			
1/1 []			•
1/1 [======]	-	0s	124ms/step
1/1 [======]	-	0s	138ms/step
1/1 [========]	-	0s	125ms/step
1/1 [=======]	-	0s	132ms/step
1/1 [=======]	-	0s	135ms/step
a /a F		^	430 / +

1/1	[======]	-	ØS	130ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[======]	-	0s	123ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[=======]	-	0s	144ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[======]	-	0s	127ms/step
1/1	[========]	-	0s	132ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	-	0s	123ms/step
1/1 1/1	[=======]	-	0s	125ms/step 130ms/step
	1 1	-	0s	
1/1 1/1	[=======]	-	0s 0s	132ms/step 135ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	_	0s	132ms/step
1/1	[======]	_	0s	127ms/step
1/1	[=======]	_	0s	127ms/step
1/1	[=======]	_	0s	128ms/step
1/1	[========]	_	0s	137ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[========]	-	0s	137ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	134ms/step
1/1	[======]	-	0s	131ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[========]	-	0s	134ms/step
1/1	[========]	-	0s	123ms/step
1/1	[=======]	-	0s	122ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	121ms/step
1/1	[=======]	-	0s	132ms/step
1/1 1/1	[=======]	-	0s 0s	131ms/step
1/1	[=======]	-	0s	129ms/step 127ms/step
1/1	[=======]	_	0s	132ms/step
1/1	[=======]	_	0s	130ms/step
1/1	[=======]	_	0s	122ms/step
1/1	[======]	_	0s	128ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	177ms/step
1/1	[=======]	-	0s	171ms/step
1/1	[=======]	-	0s	170ms/step
1/1	[======]	-	0s	168ms/step
1/1	[======]	-	0s	171ms/step
1/1	[]	-		181ms/step
1/1	[]	-		176ms/step
1/1	[======]	-		173ms/step
1/1	[=======]	-		172ms/step
1/1	[=======]	-		164ms/step
1/1	[=======]	-	0s	
1/1	[=======]	-		175ms/step
1/1	[=======]	-		182ms/step
1/1	[========]	-	0s	171ms/step

т/ т	[]	-	20	1//IIIS/Steb
1/1	[=======]	-	0s	180ms/step
1/1	[=======]	-	0s	177ms/step
1/1	[======]	-	0s	173ms/step
1/1	[======]	-	0s	166ms/step
1/1	[======]	-	0s	171ms/step
1/1	[======]	-	0s	169ms/step
1/1	[======]	-	0s	152ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[======]	-	0s	134ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	_	0s	128ms/step
1/1	[=======]	_	0s	126ms/step
1/1	[======]	_	0s	135ms/step
1/1	[======]	_	0s	129ms/step
1/1	[=======]		0s	126ms/step
	[]	-		/
1/1	[=======]	-	0s	137ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[========]	-	0s	136ms/step
1/1	[======]	-	0s	130ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[======]	-	0s	124ms/step
1/1	[======]	-	0s	137ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	127ms/step
1/1	[======]	-	0s	125ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	_	0s	124ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[=======]	_	0s	137ms/step
1/1	[======]	_	0s	121ms/step
1/1	[=======]	_	0s	131ms/step
1/1	[=======]	_	0s	129ms/step
	<u>.</u> .	-		
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	124ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	126ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	143ms/step
1/1	[=======]	_	0s	128ms/step
1/1	[=======]	_	0s	124ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[======]	_		125ms/step
1/1	[=======]			128ms/step
1/1	[=======]	_		133ms/step
1/1				
•	[=======]			121ms/step
1/1	[]			130ms/step
1/1	[=======]			131ms/step
1/1	[=======]			136ms/step
1/1	[=======]	-		126ms/step
1/1	[=======]	-		136ms/step
1/1	[=======]	-		123ms/step
1/1	[======]			124ms/step
1 /1	Γ1	-	Ωc	127mc/c+an

1/1				
1/1	[======]	-	0s	133ms/step
1/1	[=======]	-	0s	185ms/step
1/1	[=======]	-	0s	172ms/step
1/1	[=======]	-	0s	164ms/step
1/1	[=======]	-	0s	169ms/step
1/1	[======]	-	0s	169ms/step
1/1	[======]	-	0s	182ms/step
1/1	[======]	-	0s	173ms/step
1/1	[======]	-	0s	160ms/step
1/1	[======]	-	0s	163ms/step
1/1	[======]	-	0s	172ms/step
1/1	[=======]	-	0s	167ms/step
1/1	[======]	-	0s	174ms/step
1/1	[======]	-	0s	160ms/step
1/1	[======]	-	0s	169ms/step
1/1	[=======]	-	0s	171ms/step
1/1	[=======]	-	0s	202ms/step
1/1	[======]	-	0s	166ms/step
1/1	[======]	-	0s	162ms/step
1/1	[======]	-	0s	169ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[======]	-	0s	135ms/step
1/1	[======]	-	0s	122ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	127ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	131ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[]	-	0s	134ms/step
1/1 1/1	[]	-	0s 0s	132ms/step 127ms/step
1/1	[======]	-	0s	
1/1		-	0S	123ms/step 129ms/step
1/1	[======]	_	0s	128ms/step
1/1	[======]	_	0s	130ms/step
1/1		-	0s	135ms/step
1/1	[======================================	-	0s	130ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[========]	_	0s	133ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[=======]	_	0s	125ms/step
1/1	[=======]	_	0s	131ms/step
1/1	[======]	_	0s	131ms/step
	[========]			
	[=======]			
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	[=======]			
	[=======]			
	[=======]			
1/1	[=======]	-	0s	125ms/step
	[=======]			
1/1	-			
1/1	[======]	-	0s	142ms/step
1/1	Γ=======1	-	95	129ms/sten

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1/1	[========]		0s	128ms/step
1/1	[=======]		0s	130ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	-	0s	138ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=========]	-	0s	128ms/step
1/1	[========]	-	0s	126ms/step
1/1	[========]	_	0s	131ms/step
1/1	[========]		0s	125ms/step
1/1	[=========]		0s	128ms/step
1/1	[========]		0s	124ms/step
1/1	[=======]		0s	130ms/step
-				
1/1	[========]		0s	123ms/step
1/1	[=========		0s	129ms/step
1/1	[========]		0s	124ms/step
1/1	[]	-	0s	178ms/step
1/1	[=======]	-	0s	170ms/step
1/1	[========]	-	0s	185ms/step
1/1	[========]	-	0s	180ms/step
1/1	[=========]	-	0s	180ms/step
1/1	[========]	-	0s	170ms/step
1/1	[========]	_	0s	171ms/step
1/1	[=========]		0s	176ms/step
1/1	[========]		0s	177ms/step
1/1	[========]		0s	176ms/step
1/1				170ms/step
•	[========]		0s	
1/1	[=======]		0s	169ms/step
1/1	[=======]		0s	166ms/step
1/1	[==========		0s	175ms/step
1/1	[=======]		0s	170ms/step
1/1	[]	-	0s	170ms/step
1/1	[=======]	-	0s	172ms/step
1/1	[========]	-	0s	175ms/step
1/1	[========]	-	0s	163ms/step
1/1	[=======]	-	0s	184ms/step
1/1	[========]	-	0s	126ms/step
1/1	[========]		0s	130ms/step
1/1	[=======]		0s	129ms/step
1/1	[=========]		0s	123ms/step
1/1	[========]		0s	129ms/step
-	[========]			
1/1			0s	128ms/step
1/1	[========]		0s	127ms/step
1/1	[========]		0s	133ms/step
1/1	[=======]		0s	128ms/step
1/1	[========]		0s	126ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[]		0s	139ms/step
1/1	[]	-	0s	124ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[========]	-	0s	129ms/step
1/1	[========]	-	0s	125ms/step
	[=======]		0s	125ms/step
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	[======================================			
	[=======]			
1/1	[======]	-	0s	124ms/step

-, - 1/1	ι Γ1		0s	137ms/step
1/1	[========]	-		138ms/step
٠.	[======]	_		131ms/step
1/1	•	_		125ms/step
1/1 1/1	[=======]	-	0s 0s	130ms/step
1/1	[======]	_	0s	128ms/step
1/1	[======]	_	0s	127ms/step
1/1	[======]	_	0s	130ms/step
1/1	[======]	_	0s	126ms/step
1/1	[======]	_	0s	140ms/step
1/1	[=======]	_	0s	135ms/step
1/1	[======]	_	0s	125ms/step
1/1	[======]	_	0s	121ms/step
1/1	[=======]	_	0s	127ms/step
1/1	[=======]	_	0s	131ms/step
1/1	[========]	_	0s	145ms/step
1/1	[=======]	-	0s	138ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	122ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	122ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	123ms/step
1/1	[=====]	-	0s	127ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	124ms/step
1/1	[========]	-	0s	124ms/step
1/1	[=======]	-	0s	154ms/step
1/1	[=======]	-	0s	176ms/step
1/1	[=======]	-	0s	170ms/step
1/1	[=======]	_	0s	177ms/step
1/1 1/1	[=======]	-	0s 0s	174ms/step 178ms/step
1/1	[======]	_	0s	175ms/step
1/1	[======]	_	0s	170ms/step
1/1	[======]	_	0s	171ms/step
1/1	[======]	_	0s	165ms/step
1/1	[=======]	_	0s	169ms/step
1/1	[=======]	_	0s	179ms/step
1/1	[======]	_	0s	166ms/step
1/1	[=======]	-	0s	173ms/step
1/1	[=======]	-	0s	171ms/step
1/1	[======]	-	0s	175ms/step
1/1	[======]	-	0s	167ms/step
1/1	[======]	-	0s	161ms/step
1/1	[======]	-	0s	171ms/step
1/1	[======]	-		125ms/step
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1/1	,	-	03	120113/3LED

1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	122ms/step
1/1	[========]	-	0s	131ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[========]	-	0s	141ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[========]	-	0s	122ms/step
1/1	[========]	-	0s	134ms/step
1/1	[=========]	-	0s	123ms/step
1/1	[========]	-	0s	126ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[========]	-	0s	132ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	-	0s	122ms/step
1/1	[=======]	-	0s	142ms/step
1/1	[=======]	_	0s	124ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-		
1/1	[=======]	-	0s	126ms/step
	[=======]			
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]			131ms/step
1/1	[=========]	-	0s	125ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	122ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[========]	-	0s	123ms/step
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```
1 model = Model()
2 model.load('best_train_small')
3
4 if TEST_ON_LARGE_DATASET:
5     pred_1 = model.test_on_dataset(d_test)
6     Metrics.print_all(d_test.labels, pred_1, 'test')
```

Downloading... From: https://drive.google.com/uc?export=download&id=1-iDYVa2CxinJ82482IGt kvOZRDH1Wel To: /content/best train small.h5 100% | 107M/107M [00:00<00:00, 110MB/s] 100% 4500/4500 [14:56<00:00, 5.06it/s] 1/1 [======] - 1s 1s/step 1/1 [=======] - 0s 131ms/step 1/1 [=======] - 0s 130ms/step 1/1 [=======] - 0s 141ms/step 1/1 [=======] - 0s 127ms/step 1/1 [=======] - 0s 126ms/step 1/1 [========] - 0s 129ms/sten 1/1 [=======] - 0s 126ms/step 1/1 [=======] - 0s 134ms/step 1/1 [=======] - 0s 136ms/step 1/1 [=======] - 0s 132ms/step 1/1 [=======] - 0s 133ms/step 1/1 [=======] - 0s 127ms/step 1/1 [=======] - 0s 132ms/step 1/1 [=======] - 0s 134ms/step 1/1 [======] - 0s 132ms/step 1/1 [=======] - 0s 133ms/step 1/1 [======] - 0s 136ms/step 1/1 [=======] - 0s 131ms/step 1/1 [======] - 0s 135ms/step 1/1 [=======] - 0s 126ms/step 1/1 [=======] - 0s 132ms/step 1/1 [=======] - 0s 132ms/step 1/1 [=======] - 0s 125ms/step 1/1 [=======] - 0s 130ms/step 1/1 [=======] - 0s 134ms/step 1/1 [=======] - 0s 129ms/step 1/1 [=======] - 0s 127ms/step 1/1 [=======] - 0s 128ms/step 1/1 [======] - 0s 129ms/step 1/1 [=======] - 0s 137ms/step 1/1 [======] - 0s 127ms/step 1/1 [=======] - 0s 137ms/step 1/1 [=======] - 0s 128ms/step 1/1 [======] - 0s 128ms/step 1/1 [=======] - 0s 131ms/step 1/1 [=======] - 0s 124ms/step 1/1 [======] - 0s 128ms/step 1/1 [=======] - 0s 123ms/step

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1/1	[======]	-	0s	131ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	125ms/step
1/1	[======]	-	0s	155ms/step
1/1	[======]	-	0s	163ms/step
1/1	[]	-	0s	177ms/step
1/1	[]	-	0s	171ms/step
1/1	[=======]	-	0s	169ms/step
1/1	[======]	-	0s	164ms/step
1/1	[=======]	-	0s	163ms/step
1/1	[=======]	-	0s	172ms/step
1/1	[=======]	-	0s	171ms/step
1/1	[]	-	0s	171ms/step
1/1	[=======]	-	0s	173ms/step
1/1 1/1	[]	_	0s 0s	169ms/step
1/1	[=======]	-	0s	173ms/step 167ms/step
1/1	[======]	_	0s	163ms/step
1/1	[======]	_	0s	169ms/step
1/1	[======]	_	0s	179ms/step
1/1	[======]	_	0s	169ms/step
1/1	[======]	_	0s	166ms/step
1/1	[=======]	-	0s	167ms/step
1/1	[======]	-	0s	173ms/step
1/1	[======]	-	0s	177ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	129ms/step
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171		-	N	170ms/\$140

1/1	[======]	_	05 0s	128ms/step
1/1	[======]	_	0s	132ms/step
1/1	[======]	_	0s	133ms/step
1/1	[======]	-	0s	130ms/step
-		-	0s	
1/1	[=======]	-		123ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[=======]	-	0s	122ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	124ms/step
1/1	[=======]	-	0s	143ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	125ms/step
1/1	[]	-	0s	132ms/step
1/1	[]	-	0s	133ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	133ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	127ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	124ms/step
1/1	[======]	-	0s	138ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	_	0s	124ms/step
1/1	[=======]	_	0s	132ms/step
1/1	[========]	_	0s	131ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[=======]	_	0s	126ms/step
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1/1	[=======]	_	0s	127ms/step
1/1	[=======]	_	0s	132ms/step
1/1	[=======]	_	0s	127ms/step
1/1	[=======]	_	0s	131ms/step
1/1	[=======]	_	0s	133ms/step
1/1	[=======]	_	0s	123ms/step
1/1	[=======]	_	0s	131ms/step
1/1	[=======]	_	0s	182ms/step
1/1	[=======]	_	0s	170ms/step
1/1	[=======]	_	0s	169ms/step
1/1	[=======]	_	0s	170ms/step
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1/1	[======]	-	0s	171ms/step
1/1	[======]	-	0s	164ms/step
1/1	[======]	-	0s	167ms/step
1/1	[======]	-	0s	168ms/step
1/1	[======]	-	0s	122ms/step
1/1	[======]	-	0s	124ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	139ms/step
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1/1	[======]	-	0s	132ms/step
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1/1	[======]	-	0s	133ms/step
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1/1	[======]	-		131ms/step
1/1	[]	-	0s	134ms/step
1/1	[======]	-		142ms/step
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1/1	[=======]		03	125ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[========]	-		127ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	-	0s	121ms/step
1/1	[=======]	-		123ms/step
1/1	[=======]	-		125ms/step
1/1	[=======]	-	0.5	134ms/step
1/1	[========]	-	0s	126ms/step
1/1	[=======]	-	0s	139ms/step
1/1	[=======]	-	0s	124ms/step
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1/1	[=======]	_		130ms/step
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1/1	[=======]	_		124ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[=======]	_	0s	138ms/step
1/1	[=======]	_	0s	134ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[=======]	-	0s	124ms/step
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1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	138ms/step
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1/1	[======]	-	0s	132ms/step

1/1	[=======]	-	0s	174ms/step
1/1	[=======]	-	0s	175ms/step
1/1	[=======]	-	0s	186ms/step
1/1	[=======]	-	0s	166ms/step
1/1	[======]	-	0s	170ms/step
1/1	[======]	-	0s	175ms/step
1/1	[==========]	-	0s	166ms/step
1/1	[======]	-	0s	177ms/step
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1/1	[======]	-	0s	180ms/step
1/1	[=======]	-	0s	174ms/step
1/1	[======]	-	0s	174ms/step
1/1	[=======]	-	0s	166ms/step
1/1	[======]	-	0s	123ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	125ms/step
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1/1	[]	-	0s	129ms/step
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1/1	[=======]	-	0s	132ms/step
1/1	[=========]	-	0s	125ms/step
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1/1	[=======]	-	0s	125ms/step
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1/1	[]	-	0s	130ms/step
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1/1	[=========]	-	0S	132ms/step
1/1	[=========]	_	0s	135ms/step
1/1	[=========]	_	0s	128ms/step
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1/1 [===================================	-	0s	137ms/step
1/1 [=======]	-	0s	132ms/step
1/1 [=======]	-	0s	124ms/step
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1/1 [========]	-	0s	171ms/step
1/1 [========]	-	0s	171ms/step
1/1 [=======]	-	0s	178ms/step
1/1 [=========]	_	0s	174ms/step
1/1 [=======]	_	0s	172ms/step
1/1 [=======]	_	0s	171ms/step
1/1 [=======]	_	0s	169ms/step
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1/1 [=======]	-	0s	171ms/step
1/1 [===================================	-	0s	165ms/step
1/1 [========]	-	0s	179ms/step
1/1 [=======]	-	0s	170ms/step
1/1 [=======]	-	0s	170ms/step
1/1 [=======]	-	0s	177ms/step
1/1 [=======]	-	0s	169ms/step
1/1 [=======]	-	0s	188ms/step
1/1 [========]	-	0s	164ms/step
1/1 [======]	-	0s	123ms/step
1/1 [=======]	-	0s	124ms/step
1/1 [=======]	-	0s	125ms/step
1/1 [=======]	-	0s	131ms/step
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1/1 [=======]	_	0s	126ms/step
1/1 [=======]	_	0s	137ms/step
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· •	-	0s	132ms/step
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1/1 [=======]	-	0s	124ms/step
1/1 [=======]	-	0s	131ms/step
1/1 [=======]	-	0s	127ms/step
1/1 [======]	-	0s	137ms/step
1/1 [=======]	-	0s	125ms/step
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1/1 [========]	-	0s	126ms/step
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1/1	[=======]	-		124ms/step
1/1	[======]	-	0s	130ms/step
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1/1	[======]	-	0s	
1/1	[=======]	-	0s	125ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	125ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	138ms/step
1/1	[======]	-	0s	134ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	124ms/step
1/1	[======]	-	0s	127ms/step 124ms/step
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1/1	[=======]	-	0s	134ms/step
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1/1	[=======]	_	0s	126ms/step
1/1	[========]	_	0s	123ms/step
1/1	[======]	_	0s	· · · · · ·
1/1	[======]	_	0s	183ms/step
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1/1	[======]	_	0s	169ms/step
1/1	[======]	_	0s	189ms/step
1/1	[======]	_	0s	173ms/step
1/1	[======]	_	0s	165ms/step
1/1	[======]	_	0s	168ms/step
1/1	[======]	_	0s	168ms/step
1/1	[======]	-	0s	173ms/step
1/1	[=======]	-	0s	183ms/step
1/1	[=======]	-	0s	176ms/step
1/1	[======]	-	0s	171ms/step
1/1	[======]	-	0s	185ms/step
1/1	[======]	-	0s	177ms/step
1/1	[======]	-	0s	182ms/step
1/1	[======]	-	0s	167ms/step
1/1	[======]	-	0s	183ms/step
1/1	[======]	-	0s	170ms/step
1/1	[======]	-	0s	131ms/step
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1/1	[======]	-	0s	134ms/step
1/1	[======]	-	0s	123ms/step
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1/1	[======]	-	0s	131ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	124ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	127ms/step
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1/1	[======]	_	0s	142ms/step
1/1	[======]	_	0s	135ms/step
1/1	[========]	-	0s	126ms/step
1/1	[=======]	_	0s	131ms/step
1/1	[======]	_	0s	134ms/step
1/1	[======]	_	0s	132ms/step
1/1	[=======]	_	0s	142ms/step
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1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[======]	-	0s	154ms/step
1/1	[======]	-	0s	170ms/step
1/1	[======]	-	0s	170ms/step
1/1	[======]	-	0s	180ms/step
1/1	[======]	-	0s	169ms/step
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1/1	[======]	-	0s	176ms/step
1/1	[======]	-	0s	170ms/step
1/1	[======]	-	0s	162ms/step
1/1	[======]	-	0s	163ms/step
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1/1	[======]	-	0s	121ms/step
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1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	134ms/step
1/1	[======]	-	0s	127ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	126ms/step
1/1	[=======]	_	0s	128ms/step
1/1	[========]	-	0s	131ms/step
1/1	[======]	_	0s	134ms/step
1/1	[======]	_	0s	124ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[======]	_	0s	131ms/step
1/1	[=======]	_	0s	133ms/step
1/1	[=======]	_	0s	133ms/step
1/1	[======]	_	0s	126ms/step
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1/1	[======]	_	0s	129ms/step
1/1	[=======]	_	0s	121ms/step
1/1	[======]	_	0s	131ms/step
1/1	[=======]	_	0s	127ms/step
1/1	[=======]	_	0s	131ms/step
1/1	[======]	_	0s	124ms/step
1/1	[======]	_	0s	132ms/step
1/1	[=======]	_	0s	126ms/step
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1/1	[======]	_	0s	128ms/step
1/1	[======]	_	0s	123ms/step
1/1	[======]	_	0s	131ms/step
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1/1	[=======]	_	0s	122ms/step
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1/1	[======]	_	0s	132ms/step
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1/1	[======]	_	0s	127ms/step
1/1	[=======]	_	0s	132ms/step
1/1	[=======]	_	0s	128ms/step
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1/1	[========]	_	0s	133ms/step
1/1	[=======]	_	0s	125ms/step
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1/1	[======]	-	ØS	16/ms/step
1/1	[=======]	-	0s	179ms/step
1/1	[======]	-	0s	166ms/step
1/1	[=======]	-	0s	166ms/step
1/1	[=======]	-	0s	161ms/step
1/1	[=======]	-	0s	172ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[======]	-	0s	128ms/step
1/1	[========]	-	0s	141ms/step
1/1	[=======]	-	0s	122ms/step
1/1	[========]	-	0s	128ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[]	-	0s	140ms/step
1/1	[]	-	05	132ms/step
1/1 1/1	[=======]	-	0s 0s	130ms/step 139ms/step
1/1	[=======]	-	0s	145ms/step
1/1	[=======]	_	0s	139ms/step
1/1	[======]	_	0s	133ms/step
1/1	[=======]	_	0s	135ms/step
1/1	[=======]	_	0s	145ms/step
1/1	[========]	_	0s	139ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[=======]	-	0s	140ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[======]	-	0s	133ms/step
1/1	[======]	-	0s	135ms/step
1/1	[======]	-	0s	134ms/step
1/1	[======]	-	0s	138ms/step
1/1	[=======]	-	0s	154ms/step
1/1	[========]	-	0s	140ms/step
1/1	[========]	-	0s	129ms/step
1/1	[========]	-	0s	136ms/step
1/1	[=======]	-	0s	140ms/step
1/1	[=======]	-	0s	141ms/step
1/1	[========]	-	0s	132ms/step
1/1 1/1	[========]	-	0s 0s	147ms/step 135ms/step
1/1	[=======]	-	0s	141ms/step
1/1	[=======]	_	0s	136ms/step
1/1	[======]	_	0s	133ms/step
1/1	[=======]	_	0s	143ms/step
1/1	[======]	_	0s	130ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	149ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[======]	-	0s	137ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-		141ms/step
1/1	[]	-		135ms/step
1/1	[========]	-		140ms/step
1/1	[=======]	-		177ms/step
1/1	[=======]	-	0s	
1/1	[=======]	-		184ms/step
1/1	[=======]			183ms/step
1/1	[======]	-	0s	180ms/step
. , ,	·'			. Z.m. /CTON

т/ т	[]	-	20	ToTIII2/2reh
1/1	[========]	-	0s	191ms/step
1/1	[========]	-	0s	181ms/step
1/1	[========]	-	0s	174ms/step
1/1	[========]	-	0s	174ms/step
1/1	[=======]	-	0s	175ms/step
1/1	[========]	-	0s	178ms/step
1/1	[=======]	-	0s	182ms/step
1/1	[=======]	-	0s	183ms/step
1/1	[========]	-	0s	169ms/step
1/1	[========]	-	0s	187ms/step
1/1	[========]	-	0s	183ms/step
1/1 1/1	[==========]	-	0s	181ms/step 138ms/step
1/1	[=========]	_	0s 0s	133ms/step
1/1	[=======]	_	0s	131ms/step
1/1	[]	_	0s	128ms/step
1/1	[======]	_	0s	131ms/step
1/1	[=======]	_	0s	128ms/step
1/1	[=======]	_	0s	144ms/step
1/1	[======]	_	0s	126ms/step
1/1	[========]	_	0s	130ms/step
1/1	[======]	_	0s	133ms/step
1/1	[=======]	_	0s	130ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[=======]	_	0s	140ms/step
1/1	[======]	_	0s	128ms/step
1/1	[======]	-	0s	127ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[======]	-	0s	125ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[========]	-	0s	130ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	123ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	124ms/step
1/1	[========]	-	0s	133ms/step
1/1	[=======]	-	0s	138ms/step
1/1	[========]	-	0s	130ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[=======]	-	0s	148ms/step
1/1	[========]	-	0s	130ms/step
1/1	[======]	-	0s	124ms/step
1/1	<u>.</u> ,	-	0s	127ms/step
	[========]	-		127ms/step
1/1 1/1		-		130ms/step 140ms/step
1/1	[======]	_		124ms/step
1/1	[=======]	_		124ms/step 126ms/step
1/1				128ms/step
1/1	[=======]	_		123ms/step
1/1	[=========]	_		131ms/step
1/1	[======]	_		135ms/step
1/1		-		130ms/step
1/1	[=======]	-		125ms/step
1/1	Ī1	-	ac	177mc/c+an

1/1	[]	-	00	12/1115/5tep
1/1 1/1	[=======]	_	0s 0s	129ms/step 135ms/step
-	[======]	_		142ms/step
1/1		-	0s	
1/1	[=======]	-	0s	125ms/step
1/1	[======================================	-	0s	128ms/step
1/1	[======================================	-	0s	176ms/step
1/1	[=======]	-	0s	182ms/step
1/1	[=======]	-	0s	178ms/step
1/1	[=======]	-	0s	168ms/step
1/1	[=======]	-	0s	172ms/step
1/1	[========]	-	0s	167ms/step
1/1	[========]	-	0s	165ms/step
1/1	[=======]	-	0s	180ms/step
1/1	[========]	-	0s	183ms/step
1/1	[========]	-	0s	164ms/step
1/1	[=======]	-	0s	174ms/step
1/1	[========]	-	0s	174ms/step
1/1	[=======]	-	0s	165ms/step
1/1	[=======]	-	0s	178ms/step
1/1	[========]	-	0s	188ms/step
1/1	[=======]	-	0s	176ms/step
1/1	[=======]	-	0s	182ms/step
1/1	[=======]	-	0s	169ms/step
1/1	[=======]	-	0s	170ms/step
1/1	[======]	-	0s	171ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	138ms/step
1/1	[========]	-	0s	126ms/step
1/1	[========]	-	0s	133ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[========]	-	0s	130ms/step
1/1	[========]	-	0s	133ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[]	-	0s	126ms/step
1/1	[]	-	0s	135ms/step
1/1	[======================================	-	0s	125ms/step
1/1	[========]	-	0s	125ms/step
1/1	[]	-	0s	136ms/step
1/1	[=========]	-	0s	124ms/step
1/1	[]	-	0s	122ms/step
1/1	[=========]	-	0s	130ms/step
1/1	[======================================	-	0s	128ms/step
1/1	[======================================	-	0s	125ms/step
1/1	[========]	-	0s	130ms/step
1/1	[========]	-	0s	130ms/step
1/1	[========]	-	0s	126ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	128ms/step
	[=======]			123ms/step
	[]			
	[]			
	[]			130ms/step
	[]			127ms/step
	[]			123ms/step
	[======================================			131ms/step
	[]			
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	[]			
1/1	[========]			
1/1	·	-	MS	177ms/STPN

4/4	L J		05	120 / - 1
1/1	[==========		0s	130ms/step
1/1	[======================================		0s	125ms/step
1/1	[]		0s	134ms/step
1/1	[=======]		0s	141ms/step
1/1	[========]	-	0s	123ms/step
1/1	[========]	-	0s	126ms/step
1/1	[======================================	-	0s	129ms/step
1/1	[========]	-	0s	129ms/step
1/1	[========]	-	0s	128ms/step
1/1	[=======]		0s	130ms/step
1/1	[=========]		0s	124ms/step
1/1	[=========]		0s	131ms/step
1/1	[=========]		0s	125ms/step
1/1	[=========]		0s	124ms/step
٠.				129ms/step
1/1	[======================================		0s	
1/1	[========]		0s	128ms/step
1/1	[=======]		0s	125ms/step
1/1	[========]		0s	129ms/step
1/1	[======]		0s	129ms/step
1/1	[=======]	-	0s	138ms/step
1/1	[========]	-	0s	182ms/step
1/1	[=======]	-	0s	180ms/step
1/1	[========]	-	0s	179ms/step
1/1	[======]	-	0s	161ms/step
1/1	[========]	-	0s	181ms/step
1/1	[=======]		0s	173ms/step
1/1	[======]		0s	165ms/step
1/1	[=========]		0s	172ms/step
1/1	[========]		0s	182ms/step
1/1	[=========]		0s	168ms/step
				180ms/step
1/1	[=========]		0s	
1/1	[========]		0s	165ms/step
1/1	[========]		0s	176ms/step
1/1	[========]		0s	170ms/step
1/1	[=======]		0s	166ms/step
1/1	[======================================		0s	166ms/step
1/1	[======]		0s	189ms/step
1/1	[=======]		0s	128ms/step
1/1	[========]	-	0s	127ms/step
1/1	[========]	-	0s	126ms/step
1/1	[========]	-	0s	125ms/step
1/1	[======================================	-	0s	127ms/step
1/1	[======================================	-	0s	128ms/step
1/1	[========]	-	0s	135ms/step
1/1	[========]	-	0s	127ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]		0s	128ms/step
1/1	[=========]		0s	133ms/step
1/1	[========]		0s	129ms/step
1/1	[========]		0s	130ms/step
,				124ms/step
	[========]			
	[========]			
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	[========]			-
	[=======]			
	[=======]			
	[=======]			
	[======]			
1/1	[]	-	0s	129ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	122ms/step

,				-,r
1/1	[======]	-	0s	125ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	133ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[======]	-	0s	124ms/step
	[=======]			
1/1	[======]	_	0s	131ms/step
	[======]			•
	[========]			128ms/step
1/1	[======]	_	0s	134ms/step
		_		127ms/step
	[======]	_		
	[=======]			
	[========]			
1/1	[=======]	-	0s	131ms/step
	[======]			
	[======]			•
	[======]			124ms/step
1/1	[======]	-	0s	136ms/step
		-		134ms/step
	[=======]	-	0s	123ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[======]	-	0s	123ms/step
	[=======]			
1/1	[======]	-	0s	127ms/step
1/1	[======]	-	0s	133ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	168ms/step
1/1	[======]	-	0s	192ms/step
1/1	[======]	-	0s	178ms/step
1/1	[======]	-	0s	178ms/step
1/1	[]	-	0s	170ms/step
1/1	[======]	-	0s	178ms/step
1/1	[======]	-	0s	165ms/step
1/1	[======]	-	0s	165ms/step
1/1	[]	-	0s	170ms/step
	[=======]			184ms/step
	[======]			
	[======]			
	[======]			
	[=======]			
	[======]			
	[=======]			
	[======]			
	[=======]			•
	[======]			•
	[=======]			•
	[=======]			
	[=======]			
	[=======]			
	[=======]			
1/1	[=======]	-	05	130ms/step
	[======]			
	[=========]			
	[=======]			•
	[=======]			
	[=======]			•
±/ ±			03	

1/1	[======]	-	0s	122ms/step	
1/1	[======]	-	0s	142ms/step	
1/1	[=======]	-	0s	137ms/step	
1/1	[======]	-	0s	139ms/step	
1/1	[=======]	-	0s	126ms/step	
1/1	[=======]	-	0s	137ms/step	
1/1	[=======]	-	0s	129ms/step	
1/1	[======]	-	0s	133ms/step	
1/1	[=======]	-	0s	133ms/step	
1/1	[=======]	-	0s	131ms/step	
1/1	[=======]	-	0s	125ms/step	
1/1	[=======]	-	0s	131ms/step	
1/1	[=======]	-	0s	125ms/step	
1/1	[=======]	-	0s	131ms/step	
1/1	[======]	-	0s	132ms/step	
1/1	[======]	-	0s	137ms/step	
1/1	[=======]	-	0s	125ms/step	
1/1	[======]	-	0s	132ms/step	
1/1	[======]	-	0s	126ms/step	
1/1	[=======]	-	0s	136ms/step	
1/1	[======]	-	0s	131ms/step	
1/1	[======]	-	0s	133ms/step	
1/1	[======]	-	0s	136ms/step	
1/1	[======]	-	0s	129ms/step	
1/1	[=======]	-	0s	131ms/step	
1/1	[=======]	-	0s	134ms/step	
1/1	[=======]	-	0s	138ms/step	
1/1	[=======]	-	0s	128ms/step	
1/1	[======]	-	0s	136ms/step	
1/1	[======]	-	0s	141ms/step	
1/1	[=======]	-	0s	142ms/step	
1/1	[=======]	-	0s	134ms/step	
1/1	[======]	-	0s	124ms/step	
1/1	[======]	-	0s	130ms/step	
1/1	[======]	-	0s	142ms/step	
1/1	[======]	-	0s	125ms/step	
1/1	[======]	-	0s	140ms/step	
1/1	[=======]	-	0s	130ms/step	
1/1	[======]	-	0s	131ms/step	
1/1	[=======]	-	0s	124ms/step	
1/1	[=======]	-	0s	131ms/step	
1/1	[======]	-	0s	135ms/step	
1/1	[=======]	-	0s	127ms/step	
1/1	[======]	-	0s	159ms/step	
1/1	[=======]	-	0s	179ms/step	
1/1	[======]	-	0s	193ms/step	
1/1	[======]	-	0s	272ms/step	
1/1	[======]	-	0s	309ms/step	
1/1	[======]	-	0s	282ms/step	
1/1	[=======]	-	0s	300ms/step	
1/1	[=======]	-	0s	287ms/step	
	[]				
	[======]				
	[]				
1/1	[]	-	0s	225ms/step	
	[]				
	[======]				
	[======]				
	[======]				
	[======]				
	[=======]				
1/1	[======]	-	0s	203ms/step	

1 /1			0-	120/
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[========]	-	0s	132ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[========]	-	0s	130ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[========]	-	0s	134ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[========]	-	0s	131ms/step
1/1	[========]	-	0s	123ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[========]	-	0s	126ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[]	-	0s	121ms/step
1/1 1/1	[=======]	-	0s 0s	137ms/step
	[======]	-		131ms/step 129ms/step
1/1 1/1	[========]	-	0s 0s	121ms/step
1/1	[]	-	0S	136ms/step
1/1	[]	-		125ms/step
1/1	[========]	-	0s 0s	136ms/step
1/1	[======]	-	0s	125ms/step
1/1	[]	-	0S	
1/1	[=======]	-	0s	124ms/step 132ms/step
1/1	[======]	-	0s	128ms/step
1/1	[=======]	_	0s	126ms/step
1/1	[=======]	_	0s	139ms/step
1/1	[=======]	_	0s	125ms/step
1/1	[=======]	_	0s	126ms/step
1/1	[=======]	_	0s	123ms/step
1/1	[=======]	_	0s	126ms/step
1/1	[=======]	_	0s	124ms/step
1/1	[=======]	_	0s	135ms/step
1/1	[======]	_	0s	125ms/step
1/1	[=======]	-	0s	122ms/step
1/1	[=======]	-	0s	121ms/step
1/1	[=======]	-	0s	139ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[==========]	-	0s	133ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[========]	-	0s	133ms/step
1/1	[======]	-	0s	124ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	143ms/step
1/1	[======]	-	0s	158ms/step
	[======]	-	0s	172ms/step
	[]			
1/1	[======]	-	0s	170ms/step
	[======]			
	[]			
	[]			
	[=======]			
	[=======]			
	[========]			164ms/step
1/1	[======]	-	0s	166ms/step

1/1	[]	-	0s	171ms/step
1/1	[=======]	-	0s	163ms/step
1/1	[]	-	0s	168ms/step
1/1	[=======]	-	0s	171ms/step
1/1	[=======]	-	0s	162ms/step
1/1	[=======]	-	0s	170ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[========]	-	0s	129ms/step
1/1	[======]	-	0s	131ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[======]	-	0s	124ms/step
1/1	[=======]	-	0s	141ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]			126ms/step
1/1	[======]	_		135ms/step
1/1	[======]			125ms/step
	[======]			137ms/step
1/1	[======]			125ms/step
1/1	[=======]			130ms/step
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1/1	[========]			123ms/step
1/1	[======]			127ms/step
1/1	[======]			130ms/step
1/1	[======]			129ms/step
1/1	[======]			122ms/step
1/1	[======]			133ms/step
1/1	[======]			122ms/step
1/1	[======]			139ms/step
1/1	[======]			124ms/step
1/1	[======]			125ms/step
1/1	[======]			134ms/step
1/1	[========]			127ms/step
1/1	[======]		0s	
1/1	[========]			134ms/step
1/1	[=======]			125ms/step
1/1	[=======]			122ms/step
1/1	[======]			133ms/step
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1/1	[=======]			124ms/step
1/1	[=======]			133ms/step
1/1	[======]			122ms/step
1/1	[========]			126ms/step
1/1	[========]			122ms/step
1/1	[======]			125ms/step
1/1	[======]			130ms/step
1/1	[======]			143ms/step
	[======]			134ms/step
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1/1	[======]	-	0s	162ms/step
1/1	[=======]	-	0s	177ms/step
1/1	[=======]	-	0s	191ms/step
1/1	[======]	-	0s	172ms/step
1/1	[=======]	-	0s	174ms/step
1/1	[======]	-	0s	171ms/step
1/1	[=======]	-	0s	168ms/step
1/1	[========]	-	0s	183ms/step
1/1	[=======]	-	0s	167ms/step
1/1	[========]	-	0s	187ms/step
1/1	[======]	-	0s	174ms/step
1/1	[=======]	-	0s	169ms/step
1/1	[=======]		0s	177ms/step
1/1	[========]	-	0s	181ms/step
1/1	[=======]		0s	184ms/step
1/1	[=======]		0s	187ms/step
1/1	[=======]		0s	173ms/step
1/1	[========]		0s	178ms/step
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1/1	[=======]	-	0s	129ms/step
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1/1	[=======]	-	0s	137ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[======]	-	0s	122ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	155ms/step
1/1	[======]	-	0s	173ms/step
1/1	[======]	-	0s	166ms/step
1/1	[======]	-	0s	175ms/step
1/1	[=======]	-	0s	175ms/step
1/1	[======]	-	0s	168ms/step
1/1	[=======]	-	0s	170ms/step
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1/1	[======]	-	0s	126ms/step
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1/1	[======]	-	0s	122ms/step
L/1	[======]	-		122ms/step
L/1	[=======]	-	0s	132ms/step
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1/1	[=======]	-	0s	128ms/step
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1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	125ms/step
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1/1	[======]	-	0s	187ms/step
1/1	[======]	-	0s	170ms/step
1/1	[======]	-	0s	175ms/step
1/1	[======]	-	0s	174ms/step
1/1	[======]	-	0s	180ms/step
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1/1	[=======]	-	0s	162ms/step
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1/1	[=======]	-	0s	182ms/step
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1/1	[======]	-	0s	132ms/step
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1/1	[=======]	_	0s	176ms/step
1/1	[=======]	_	0s	165ms/step
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1/1	[======]	_		164ms/step
1/1	[========]			194ms/step
1/1	[======]	_		167ms/step
1/1	[=======]	-	0s	
1/1	[=======]	-	0s	174ms/step
1/1	[=======]			163ms/step
1/1	[=======]	-	0s	169ms/step
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1/1	[=======]	-	0s	133ms/step
1/1	[=========]	-	0s	133ms/step
1/1	[=======]	-	0s	129ms/step
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	[========]			179ms/step
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1/1	[======]	-	0s	184ms/step
1/1	[=======]	-	0s	168ms/step
	[=======]	-	0s	187ms/step
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1/1	[======]	-	0s	176ms/step
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1/1	[======]	-	0s	124ms/step
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1/1	[=======]	-	0s	127ms/step
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1/1 1/1	[]	-	0s	136ms/step
-, -	[]	-	0s	128ms/step
1/1	[]	-	0s	142ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[========]	-	0s	129ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[========]	-	0s	130ms/step
1/1 1/1	[==========]	-	0s	122ms/step 123ms/step
1/1	[=======]	-	0s 0s	133ms/step
1/1	[======]	-	0s	128ms/step
1/1	[]	_	0s	124ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[=======]	_	0s	126ms/step
1/1	[=======]	_	0s	127ms/step
1/1	[=======]	_	0s	123ms/step
1/1	[=======]	_	0s	127ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[======]	-	0s	123ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[======]	-	0s	132ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[========]	-	0s	127ms/step
1/1	[=========]	-	0s	135ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	133ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	124ms/step
1/1	[======]	-	0s	147ms/step
1/1	[======]	-	0s	173ms/step
1/1	[=======]	-	0s	178ms/step
1/1	[=======]	-	0s	170ms/step
1/1	[=======]	-	0s	176ms/step
1/1	[=======]	-	0s	190ms/step
1/1	[=======]	-	0s	175ms/step
1/1	[]	-	0s	184ms/step
1/1	[=======]	-	0s	184ms/step
1/1 1/1	[]	-	0s 0s	173ms/step
1/1	[=======]	-	0S	176ms/step 181ms/step
1/1	[======]	-	0s	175ms/step
1/1	[=======]	_	0s	174ms/step
1/1	[=======]	_	0s	169ms/step
1/1	[========]	_	0s	164ms/step
1/1	[=======]	_	0s	179ms/step
1/1	[======]	_	0s	172ms/step
1/1	[=======]	-	0s	166ms/step
1/1	[=======]	-	0s	144ms/step
	[======]	-		131ms/step
	[=======]			
	[=======]			
	[======]			
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[======]	-	0s	128ms/step
	[======]			
	[======]			
	[======]			129ms/step
1/1	[======]	-	0s	133ms/step

	_			
1/1	[========]	-	0s	129ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[========]	-	0s	141ms/step
1/1	[======]	-	0s	131ms/step
1/1	[=======]	-	0s	143ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[=======]	_	0s	123ms/step
1/1	[=======]	_	0s	132ms/step
1/1	[=======]	_	0s	140ms/step
1/1	[========]	_	0s	132ms/step
1/1	[========]	_	0s	128ms/step
1/1	[========]	_	0s	122ms/step
1/1	[========]	_	0s	128ms/step
	<u>.</u> .	_		
1/1	[=======]	-	0s	134ms/step
1/1	[==========]	-	0s	135ms/step
1/1	[=======]	-	0s	140ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=========	-	0s	132ms/step
1/1	[=========	-	0s	126ms/step
1/1	[=======]	-	0s	155ms/step
1/1	[=======]	-	0s	122ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[======]	-	0s	127ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	122ms/step
1/1	[=========]	-	0s	134ms/step
1/1	[=========]	-	0s	125ms/step
1/1	[========]	-	0s	136ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[========]	-	0s	129ms/step
1/1	[=======]	_	0s	126ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[=======]	_	0s	132ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	_	0s	125ms/step
1/1	[=======]	_	0s	159ms/step
1/1	[========]	_	0s	178ms/step
1/1	[========]	_	0s	179ms/step
1/1	[=========]	_	0s	191ms/step
1/1	[========]	_	0s	168ms/step
1/1	[========]	_	0s	171ms/step
1/1	[========]	_	0s	178ms/step
1/1	1 1	-		
		-	0s	191ms/step
	[=========] [
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1/1	[]	-	0s	172ms/step

	[]			
	[======================================			
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	[======================================			
	[=======]			
	[=======]			
L/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[========]	-	0s	135ms/step
1/1	[========]	-	0s	138ms/step
L/1	[=======]	-	0s	126ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[========]	-	0s	136ms/step
L/1	[=======]	-	0s	126ms/step
	[=======]			
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	[=======]			121ms/step
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	[=======]			122ms/step
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	[]			
L/1	[=======]	-	0s	129ms/step
	[======]			
	[======]			
	[]			138ms/step
L/1	[=======]	-	0s	140ms/step
L/1	[=======]	-	0s	133ms/step
L/1	[======]	-	0s	145ms/step
1/1	[======]	-	0s	134ms/step
	[=======]			
L/1	[========]	-	0s	150ms/step
	[========]			
	[========]			
	[=======]			
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	[=========]			
	[=========]			
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	[==========[
			20	1/31113/3 LED

1/1	[======]	-	0s	180ms/step
1/1	[======]	-	0s	177ms/step
1/1	[======]	-	0s	210ms/step
1/1	[======]	-	0s	174ms/step
1/1	[======]	-	0s	172ms/step
1/1	[======]	-	0s	175ms/step
1/1	[======]	-	0s	192ms/step
1/1	[======]	-	0s	174ms/step
1/1	[=======]	-	0s	178ms/step
1/1	[=======]	-	0s	178ms/step
1/1	[=======]	_	0s	176ms/step
1/1	[=======]	_	0s	185ms/step
1/1	[======]	_	0s	148ms/step
1/1	[======]	_	0s	139ms/step
1/1	[======]	_	0s	138ms/step
1/1	[======]	_	0s	140ms/step
1/1	[======]	_	0s	141ms/step
1/1	[======]	_	0s	137ms/step
1/1	[======]	_	0s	139ms/step
1/1	[=======]	_	0s	139ms/step
1/1	[======]	_	0s	132ms/step
1/1	[=======]	_	0s	131ms/step
1/1	[========]	_	0s	136ms/step
1/1	[=======]	_	0s	138ms/step
1/1	[======]	_	0s	134ms/step
1/1	[=======]	_	0s	135ms/step
1/1	[======]	_	0s	146ms/step
1/1	[=======]	_	0s	135ms/step
1/1	[======]	_	0s	134ms/step
1/1	[======]	_	0s	129ms/step
1/1	[=======]	_	0s	133ms/step
1/1	[=======]	_	0s	141ms/step
1/1	[======]	_	0s	134ms/step
1/1	[======]	_	0s	134ms/step
1/1	[=======]	_	0s	130ms/step
1/1	[======]	_	0s	146ms/step
1/1	[======]	-	0s	135ms/step
1/1	[======]	_	0s	133ms/step
1/1	[=======]	_	0s	128ms/step
1/1	[======]	_	0s	140ms/step
1/1	[======]	_	0s	140ms/step
1/1	[=======]	Ī	0s	141ms/step
1/1	[======]	_	0s	131ms/step
1/1	[======]	_	0s	133ms/step
1/1	[======]	_	0s	128ms/step
1/1	[======]	Ī	0s	135ms/step
1/1	[======]	_	0s	127ms/step
1/1	[======]	_	0s	141ms/step
1/1	[======]	_	0s	136ms/step
1/1	[======]	_	0s	132ms/step
1/1	[=======]	Ī	0s	143ms/step
,	[=======]	_		
	[=======]			
	= =			
	[]			
	[========]			
	[======]			
	[=======]			
	[=========]			
	[========]			
	[========]			
1/1	[]	-	~	133 / r

				7.1
1/1	[=======]	-	05	133ms/step
1/1	[]	-	0s	136ms/step
1/1	[========]	-	0s	130ms/step
1/1 1/1	[=======]	-	0s	174ms/step
1/1	[]	-	0s 0s	173ms/step
•	[]	-		206ms/step
1/1	[]	-	0s	174ms/step
1/1 1/1	[]	-	0s 0s	167ms/step 186ms/step
1/1	[]	_	0s	183ms/step
1/1	[]	_	0s	171ms/step
1/1	[=========]	_	0s	176ms/step
1/1	[===========	_	0s	178ms/step
1/1	[========]	_	0s	178ms/step
1/1	[=========]	_	0s	166ms/step
1/1	[=========]	_	0s	172ms/step
1/1	[=======]	_	0s	174ms/step
1/1	[=======]	_	0s	199ms/step
1/1	[========]	-	0s	193ms/step
1/1	[========]	-	0s	167ms/step
1/1	[========]	-	0s	168ms/step
1/1	[========]	-	0s	178ms/step
1/1	[==========]	-	0s	144ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[==========]	-	0s	127ms/step
1/1	[======================================	-	0s	127ms/step
1/1	[=========]	-	0s	130ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=========]	-	0s	132ms/step
1/1	[=======]	-	0s	121ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	138ms/step
1/1	[========]	-	0s	131ms/step
1/1	[======]	-	0s	135ms/step
1/1	[========]	-	0s	135ms/step
1/1	[========]	-	0s	126ms/step
1/1	[======================================	-	0s	132ms/step
1/1	[========]	-	0s	132ms/step
1/1	[========]	-	0s	124ms/step
1/1	[========]	-	0s	126ms/step
1/1	[========]	-	0s	136ms/step
1/1	[]	-	0s	136ms/step
1/1	[=======]	-	0s	127ms/step
1/1 1/1		-	0s 0s	136ms/step 126ms/step
1/1	[=======]	-	0S	126ms/step
1/1	[========]	_	0s	127ms/step
1/1	[========]	_	0s	130ms/step
1/1	[=========]	_	0s	135ms/step
1/1	[=======]	_	0s	124ms/step
	[=========]	_		135ms/step
1/1	[========]			134ms/step
1/1	[========]			124ms/step
1/1	[=========]			130ms/step
	[=======]			138ms/step
1/1	[=======]			123ms/step
1/1	[]			125ms/step
1/1	[=======]	-		125ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[======]	-		126ms/step
1 /1	7		0-	13Fmc/c+cm

1/1	[=======]	-	ØS	125ms/step
1/1	[=========]	-	0s	132ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[======]	-	0s	125ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[======]	-	0s	126ms/step
1/1	[========]	-	0s	129ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	-	0s	127ms/step
1/1 1/1	[======]	-	0s	127ms/step
•	[========]	-	0s	141ms/step
1/1	[]	-	0s	177ms/step
1/1 1/1	[=======]	-	0s 0s	166ms/step
	[======]	-	0s	174ms/step 169ms/step
1/1 1/1	[========]	-	0S	176ms/step
1/1	[=======]	_	0s	175ms/step
1/1	[=======]	_	0s	171ms/step
1/1	[=======]	_	0s	168ms/step
1/1	[=======]	_	0s	167ms/step
1/1	[=======]	_	0s	174ms/step
1/1	[=======]	_	0s	176ms/step
1/1	[=======]	_	0s	186ms/step
1/1	[======]	_	0s	169ms/step
1/1	[=======]	_	0s	170ms/step
1/1	[======]	_	0s	169ms/step
1/1	[=======]	-	0s	173ms/step
1/1	[=======]	-	0s	172ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=========]	-	0s	125ms/step
1/1	[======]	-	0s	136ms/step
1/1	[======]	-	0s	133ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	123ms/step
1/1	[======]	-	0s	122ms/step
1/1	[======]	-	0s	133ms/step
1/1	[======]	-	0s	131ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[========]	-	0s	133ms/step
1/1	[=======]	-	0s	122ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[========]	-	0s	125ms/step
1/1	[=======]	-	0s	138ms/step
1/1	[]	-	05	122ms/step
1/1 1/1	[========]	-	0s	122ms/step 127ms/step
1/1	1			
1/1	[======]			124ms/step 130ms/step
1/1	[=======]			125ms/step
1/1	[=======]	_		130ms/step
1/1	[========]			128ms/step
1/1	[=======]			129ms/step
1/1	[======]			128ms/step
1/1	[=======]			127ms/step
1/1	[=======]			125ms/step
1/1	[======]			136ms/step
1 /1	r1	-	ac	177mc/c+an

1/1	[]	-	0s	127ms/step
1/1	[]	-		
	[========]	-	0s	123ms/step
1/1		-	0s	128ms/step
1/1	[=======]	-	0s	140ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	141ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[========]	-	0s	134ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[==========]	-	0s	133ms/step
1/1	[=======]	-	0s	124ms/step
1/1 1/1	[=======]	-	0s 0s	125ms/step
	i i	-		129ms/step
1/1 1/1	[========]	-	0s 0s	173ms/step 180ms/step
1/1	[========]	_	0s	173ms/step
1/1	[=======]	_	0s	191ms/step
1/1	[======]	_	0s	165ms/step
1/1	[=======]	_	0s	176ms/step
1/1	[=======]	_	0s	171ms/step
1/1	[=======]	_	0s	179ms/step
1/1	[=======]	_	0s	178ms/step
1/1	[=======]	_	0s	185ms/step
1/1	[=======]	-	0s	162ms/step
1/1	[=======]	_	0s	193ms/step
1/1	[=======]	-	0s	185ms/step
1/1	[=======]	-	0s	162ms/step
1/1	[=======]	-	0s	161ms/step
1/1	[========]	-	0s	173ms/step
1/1	[======]	-	0s	177ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[======]	-	0s	128ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[========]	-	0s	131ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	124ms/step
1/1	[======]	-	0s	140ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]			146ms/step
1/1	[]			131ms/step
1/1	[======]			130ms/step
1/1	[=======]			123ms/step
1/1	[=======]			136ms/step
1/1	[=======]			129ms/step
1/1	[=======]			129ms/step
1/1	[=======]			129ms/step
1/1	[=======]			127ms/step
1/1 1/1	[=======]			130ms/step 127ms/step
. / 1		-		

1/1	[======]	_	0s	131ms/step
1/1	[======]	_	0s	125ms/step
1/1	[=======]	_	0s	
-				128ms/step
1/1	[]	-	0s	123ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	125ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[======]	-	0s	126ms/step
1/1	[]	-	0s	125ms/step
1/1	[]	-	0s	125ms/step
1/1	[======]	-	0s	141ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	131ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[=======]	_	0s	127ms/step
1/1	[=======]	_	0s	137ms/step
1/1	[========]	_	0s	131ms/step
1/1	[========]	_	0s	135ms/step
1/1	[=======]	_	0s	130ms/step
1/1	[=======]		0s	124ms/step
-		-		
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	140ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[======]	-	0s	121ms/step
1/1	[]	-	0s	123ms/step
1/1	[======]	-	0s	121ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	135ms/step
1/1	[======]	-	0s	139ms/step
1/1	[=======]	_	0s	126ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[=======]	_	0s	126ms/step
1/1	[========]	_	0s	143ms/step
1/1	[========]	_	0s	136ms/step
1/1	[=======]	_	0s	173ms/step
1/1	[======]	_	0s	180ms/step
٠.	[======]	_		
1/1	1 1		0s	176ms/step
1/1	[=======]	-	0s	193ms/step
1/1	[=======]	-	0s	164ms/step
1/1	[=======]	-	0s	174ms/step
1/1	[=======]	-	0s	177ms/step
1/1	[======]	-	0s	201ms/step
1/1	[======]	-	0s	168ms/step
1/1	[]	-	0s	178ms/step
1/1	[]	-	0s	168ms/step
1/1	[======]	-	0s	178ms/step
1/1	[======]	-	0s	162ms/step
1/1	[======]	-	0s	164ms/step
1/1	[======]	-	0s	176ms/step
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1/1	[=======]	_	0s	125ms/step
1/1	[======]	_	0s	125ms/step
1/1	[======]	_	0s	124ms/step
1/1	[======]	_	0s	131ms/step
1/1	[======]	_	0s	127ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[=======]	_	0s	130ms/step
1/1	[======]	_	0s	127ms/step
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1/1	[========]	_	0s	131ms/step
1/1	[=======]	_	0s	132ms/step
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1/1	[=======]	_	0s	126ms/step
1/1	[======]	_	0s	127ms/step
1/1	[======]	_	0s	141ms/step
1/1	[======]	_	0s	123ms/step
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1/1	[======]	-	0s	126ms/step
1/1	[========]	-	0s	127ms/step
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1/1	[=======]	-	0s	164ms/step
1/1	[======]	-	0s	175ms/step
1/1	[======]	-	0s	166ms/step
1/1	[=======]	-	0s	186ms/step
1/1	[======]	-	0s	171ms/step
1/1	[======]	-	0s	170ms/step
1/1	[======]	-	0s	173ms/step
1/1	[======]	-	0s	203ms/step
1/1	[=======]	-	0s	168ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	-	0s	124ms/step
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1/1	[]	-	0s	130ms/step
1/1	[=======]	-	0s	123ms/step
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1/1	[=======]	_	0s	129ms/step
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1/1	[]	-	0s	125ms/step

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1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	123ms/step
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1/1	[=======]	-	0s	164ms/step
1/1	[=======]	-	0s	177ms/step
1/1	[=======]	-	0s	176ms/step
1/1	[=======]	-	0s	174ms/step
1/1	[=======]	-	0s	178ms/step
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1/1 1/1	[========]	-	0s 0s	203ms/step 183ms/step
1/1	[]	-	0s	182ms/step
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1/1	[=======]	-	0s	122ms/step
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1/1	[=======]	-	0s	127ms/step
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1/1	[======]	-	0s	126ms/step
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1/1	[=======]	_	0s	176ms/step
1/1	[========]	_	0s	191ms/step
1/1	[========]	_	0s	174ms/step
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/1	[=======]	-	0s	124ms/step
/1	[=======]	-	0s	133ms/step
/1	[=======]	-	0s	127ms/step
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/1	[======]	-	0s	167ms/step
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1/1	[======]	-	0s	184ms/step
1/1	[========]	-	0s	131ms/step
1/1	[======]	-	0s	128ms/step
1/1	[========]	-	0s	138ms/step
1/1	[========]	-	0s	126ms/step
1/1	[======]	-	0s	123ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	134ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[======]	-	0s	129ms/step
1/1	[========]	-	0s	134ms/step
1/1	[======]	-	0s	121ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	142ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[======]	-	0s	128ms/step
1/1	[=========]		0s	127ms/step
1/1	[======]	-	0s	136ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[======]	-	0s	128ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	141ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	130ms/step
1/1 1/1	[]	-	0s	130ms/step
•	[=======]	-	0s	131ms/step
1/1 1/1	[]	-	0s	141ms/step
1/1	[======] [========]	-	0s 0s	132ms/step 137ms/step
1/1	[=======]	_	0S	123ms/step
1/1	[======]	_	0s	133ms/step
1/1	[========]	_	0s	129ms/step
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1/1	[=======]	_	0s	132ms/step
1/1	[======]	_	0s	128ms/step
1/1	[======]	_	0s	129ms/step
1/1	[=======]	_	0s	131ms/step
1/1	[======]	_	0s	130ms/step
1/1	[========]	_	0s	130ms/step
1/1	[=======]	_	0s	123ms/step
1/1	[========]	_	0s	127ms/step
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1/1	[========]	-	0s	138ms/step
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1/1	[=======]	-	0s	126ms/step
1/1	[======]	-	0s	129ms/step
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1/1	[=======]			139ms/step
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1/1	[=======]	-	0s	213ms/step
1/1	[======]	-	0s	193ms/step
1/1	[========]	-	0s	183ms/step
1/1	[======]	-	0s	171ms/step
	[======]	-		201ms/step
1 /1	r 1		0-	165mc/c+on

1/1	[]	-	05	163ms/step
1/1	[=========]	-	0s	163ms/step
1/1	[========]	-	0s	183ms/step
1/1	[========]	-	0s	173ms/step
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1/1	[========]	-	0s	188ms/step
1/1	[========]	-	0s	165ms/step
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1/1	[=========]	-	0s	191ms/step
1/1 1/1	[]	-	0s 0s	179ms/step 177ms/step
1/1	[======]	-	0s	167ms/step
1/1	[=======]	_	0s	196ms/step
1/1	[=======]	_	0s	133ms/step
1/1	[========]	_	0s	126ms/step
1/1	[=======]	_	0s	130ms/step
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1/1	[]	_	0s	130ms/step 140ms/step
1/1	[======]	_	0s	127ms/step
1/1	[========]	-	0s	126ms/step
1/1	[=======]	_	0s	141ms/step
1/1	[=======]	_	0s	129ms/step
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1/1	[=======]	_	0s	132ms/step
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1/1	[========]	-	0s	131ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[==========]	-	0s	132ms/step
1/1	[=========]	-	0s	145ms/step
1/1	[======]	-	0s	125ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[]	-		133ms/step
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1/1				121ms/step
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1/1	[========]			126ms/step
1/1	[==========================			126ms/step
1/1	[=========]			126ms/step
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1/1	[]	-	20	TZ3IIIS/ STEh
1/1	[=======]	-	0s	143ms/step
1/1	[========]	-	0s	131ms/step
1/1	[=======]	-	0s	140ms/step
1/1	[========]	-	0s	129ms/step
1/1	[========]	-	0s	127ms/step
1/1	[========]	-	0s	124ms/step
1/1	[========]	-	0s	177ms/step
1/1	[========]	-	0s	186ms/step
1/1	[========]	-	0s	184ms/step
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1/1	[=======]	-	0s	166ms/step
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			0s	173ms/step
, .	:======================================	-	0s	167ms/step
, .	:======================================	- -	0s	179ms/step
1. 1		- -	0s	177ms/step 180ms/step
1. 5	:=====================================	-	0s 0s	127ms/step
	·	- -	0s	138ms/step
-	:=====================================	-	0s	131ms/step
1. 5		- -	0s	132ms/step
'. <u>-</u>			0s	140ms/step
	:=====================================	l I -	0s	135ms/step
	.======================================	l I -		125ms/step
_	·			-
-	·			130ms/step
, .	:======================================			139ms/step
	:=====================================			129ms/step
				133ms/step
	.======================================			132ms/step
1. 1			0s	130ms/step
			0s	
	·]			130ms/step
-	·]			
1/1 F	-	1	0-	120mc/c+on

1/1	[======]	-	ØS	128ms/step
1/1	[=======]	-	0s	140ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s 0s	143ms/step
1/1	[]	-		131ms/step
1/1	[]	-	0s	131ms/step
1/1 1/1	[=======]	_	0s	131ms/step 131ms/step
1/1	[========]	_	0s 0s	136ms/step
1/1	[======]	_	0s	145ms/step
1/1	[======]	_	0s	132ms/step
1/1	[======]	_	0s	132ms/step
1/1	[======]	_	0s	136ms/step
1/1	[======]	_	0s	134ms/step
1/1	[======]	_	0s	133ms/step
1/1	[======]	_	0s	126ms/step
1/1	[======]	_	0s	127ms/step
1/1	[=======]	-	0s	121ms/step
1/1	[=======]	-	0s	123ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	140ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	138ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[======]	-	0s	133ms/step
1/1	[======]	-	0s	136ms/step
1/1	[======]	-	0s	135ms/step
1/1	[======]	-	0s	143ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	136ms/step
1/1	[======]	-	0s	134ms/step
1/1	[======]	-	0s	142ms/step
1/1	[======]	-	0s	133ms/step
1/1	[=======]	-	0s	143ms/step
1/1	[=======]	-	0s	186ms/step
1/1	[=======]	-	0s	206ms/step
1/1	[========]	-	0s	179ms/step
1/1	[=======]	-	0s	162ms/step
1/1	[]	-	0s	173ms/step
1/1	[]	-	0s	177ms/step
1/1 1/1	[========]	-	0s	172ms/step 176ms/step
1/1	[========]	-	0s 0s	170ms/step
1/1	[======]	_	0s	165ms/step
1/1	[======]	_	0s	179ms/step
1/1	[======]	_	0s	173ms/step
1/1	[==========	_	0s	173ms/step
1/1	[======]	_	0s	185ms/step
1/1	[=======]	_		, F
1/1	[======]			-
1/1		_		179ms/step
1/1	-			199ms/step
1/1		-		176ms/step
1/1	[=======]			
1/1	=			
1/1	[=======]	-	0s	162ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[======]	-	0s	123ms/step
1/1	[======]			
1/1	Г1	-	Ωc	17/mc/c+an

1/1	[]	-	20	1241115/5 cep
1/1	[=======]	-	0s	129ms/step
1/1	[========]	-	0s	128ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[========]	-	0s	132ms/step
1/1	[========]	-	0s	138ms/step
1/1	[========]	-	0s	135ms/step
1/1	[========]	-	0s	129ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	134ms/step
1/1 1/1	[=======]	-	0s 0s	137ms/step 130ms/step
1/1	[=======]	_	0s	128ms/step
1/1	[=======]	_	0s	139ms/step
1/1	[=======]	_	0s	131ms/step
1/1	[======]	_	0s	136ms/step
1/1	[=======]	_	0s	135ms/step
1/1	[======]	_	0s	135ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[========]	-	0s	128ms/step
1/1	[======]	-	0s	133ms/step
1/1	[======]	-	0s	137ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	122ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	136ms/step
1/1	[========]	-	0s	130ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[========]	-	0s	133ms/step
1/1 1/1	[]	-	0s 0s	138ms/step
1/1	[=======]	-	0s	148ms/step 123ms/step
1/1	[=======]	_	0s	134ms/step
1/1	[======]	_	0s	127ms/step
1/1	[======]	_	0s	126ms/step
1/1	[======]	_	0s	136ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[======]	-	0s	146ms/step
1/1	[======]	-	0s	124ms/step
1/1	[=======]	-	0s	138ms/step
1/1	[========]	-	0s	148ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[]	-	0s	130ms/step
1/1	[]	-	0s	127ms/step
1/1 1/1	[=======]	_	0s 0s	162ms/step 130ms/step
1/1	[=======]	_	0s	137ms/step
	[=======]	_		
	[========]			
	[========]			
	[======]			
				164ms/step
1/1	[=======]			
1/1	[=======]	-	0s	228ms/step
1/1	[======]	-	0s	165ms/step
	[======]			
	[======]			
	[=======]			
1/1	Γ=======1	-	ИС	1/4mc/sten

1/1			v.s	1/4m3/3tcp
1/1	[=======]	_	0s	167ms/step
1/1	[=========]	_	0s	177ms/step
1/1	[=======]	_	0s	204ms/step
1/1	[=======]	_	0s	168ms/step
1/1	[=======]	_	0s	213ms/step
1/1	[======]	_	0s	192ms/step
1/1	[=======]	_	0s	184ms/step
1/1	[======]	_	0s	172ms/step
1/1	[=======]	_	0s	169ms/step
1/1	[=======]	_	0s	133ms/step
1/1	[=======]	_	0s	131ms/step
1/1	[=======]	_	0s	124ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	138ms/step
1/1	[=======]	-	0s	139ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[]	-	0s	126ms/step
1/1	[]	-	0s	147ms/step
1/1	[]	-	0s	131ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[========]	-	0s	138ms/step
1/1	[========]	-	0s	124ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[========]	-	0s	142ms/step
1/1	[]	-	0s	132ms/step
1/1	[]	-	0s	134ms/step
1/1	[]	-	0s	131ms/step
1/1 1/1	[]	-	0s 0s	132ms/step 133ms/step
1/1	[======]	-	0s	133ms/step
1/1	[=======]	_	0s	137ms/step
1/1	[=======]	_	0s	136ms/step
1/1	[========]	_	0s	132ms/step
1/1	[========]	_	0s	127ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	-	0s	130ms/step
1/1	[]	-	0s	134ms/step
1/1	[======]	-	0s	138ms/step
1/1	[======]	-	0s	134ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[=======]	-	0s	146ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[]	-	0s	139ms/step
1/1	[=======]	-	0s	126ms/step
	[========]			
	[=======]			
	[=======]			
	[=======]			
	[=======]			
	[]			
	[]			
	[======]			
	[==========]			
	[=========]			
	[======]			

1/1	[======]	_	0s	128ms/step
	-			
1/1	[=======]		0s	
1/1	[=======]		0s	184ms/step
1/1	[========]		0s	214ms/step
1/1	[=======]		0s	197ms/step
1/1	[=======]		0s	167ms/step
1/1	[=======]	-	0s	172ms/step
1/1	[========]	-	0s	158ms/step
1/1	[========]	-	0s	183ms/step
1/1	[======]	-	0s	176ms/step
1/1	[========]	_	0s	178ms/step
1/1	[========]		0s	167ms/step
1/1	[=======]		0s	179ms/step
1/1	[=======]		0s	201ms/step
1/1	[========]		0s	174ms/step
1/1	[=========]			185ms/step
1/1	[=========]		0s 0s	
				166ms/step
1/1	[========]		0s	170ms/step
1/1	[=========		0s	193ms/step
1/1	[=========]		0s	185ms/step
1/1	[========]		0s	177ms/step
1/1	[=======]	-	0s	171ms/step
1/1	[========]	-	0s	137ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[======================================	-	0s	123ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[=======]	_	0s	134ms/step
1/1	[=======]		0s	135ms/step
1/1	[=======]		0s	135ms/step
1/1	[========]		0s	125ms/step
1/1	[========]		0s	131ms/step
1/1	[=========]		0s	132ms/step
1/1	[=========]		0s	135ms/step
1/1	[======================================		0s	131ms/step
1/1	[========]		0s	134ms/step
1/1	[=========]		0s	131ms/step
1/1	[=========]		0s	135ms/step
1/1	[=========]	-	0s	127ms/step
1/1	[=======]	-	0s	138ms/step
1/1	[========]	-	0s	137ms/step
1/1	[========]	-	0s	129ms/step
1/1	[========]	-	0s	131ms/step
1/1	[======================================	-	0s	138ms/step
1/1	[======]	-	0s	135ms/step
1/1	[========]	-	0s	134ms/step
1/1	[========]	-	0s	130ms/step
1/1	[=======]	_	0s	144ms/step
1/1	[========]		0s	139ms/step
1/1	[========]		0s	128ms/step
1/1	[=========]		0s	141ms/step
1/1				132ms/step
	-			
	[=======]			
	[========]			
	[========]			
-	[======]			
	[======]			
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	135ms/step
	[=======]			
	[=========]			
1/1				
	·			

1/1	[=======]	-	0s	140ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	135ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[======]	-	0s	127ms/step
1/1	[======]	-	0s	133ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[======]	-	0s	135ms/step
1/1	[======]	-	0s	137ms/step
1/1	[=======]	-	0s	125ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	132ms/step
1/1	[=======]	-	0s	161ms/step
1/1	[========]	-	0s	179ms/step
1/1	[========]	-	0s	162ms/step
1/1	[=======]	-	0s	164ms/step
1/1	[========]	-	0s	210ms/step
1/1	[=======]	-	0s	170ms/step
1/1	[=======]	-	0s	200ms/step
1/1	[=======]	-	0s	189ms/step
1/1	[=======]	-	0s	186ms/step
1/1	[=======]	-	0s	169ms/step
1/1	[========]	-	0s	203ms/step
1/1	[=======]	-	0s	168ms/step
1/1	[========]	-	0s	191ms/step
1/1	[=======]	-	0s	181ms/step
1/1	[========]		0s	179ms/step
1/1 1/1	[=======]	-	0s 0s	183ms/step
1/1	[=======]	_	0s	219ms/step 180ms/step
1/1	[=======]	_	0s	180ms/step
1/1	[=======]	_	0s	181ms/step
1/1	[========]	_	0s	126ms/step
1/1	[======]	_	0s	132ms/step
1/1	[======]	_	0s	136ms/step
1/1	[=======]	_	0s	129ms/step
1/1	[=======]	_	0s	132ms/step
1/1	[=======]	_	0s	136ms/step
1/1	[======]	_	0s	128ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[======]	_	0s	132ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[======]	-	0s	130ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[======]	-	0s	138ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[======]	-	0s	135ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[======]	-	0s	133ms/step
1/1	[======]	-	0s	136ms/step
	[======]			
	[=======]			133ms/step
	[=======]			
	[=======]			
	[=======]			140ms/step
	[=======]			
	[========]			130ms/step
	[========]			
1/1	[=====]	-	ØS	128ms/step

	-			
1/1	[=======]	-	0s	135ms/step
1/1	[======]	-	0s	139ms/step
1/1	[=======]	-	0s	138ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	-	0s	139ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[=======]	-	0s	142ms/step
1/1	[======]	-	0s	139ms/step
1/1	[======]	-	0s	133ms/step
1/1	[======]	-	0s	140ms/step
1/1	[======]	-	0s	137ms/step
1/1	[======]	-	0s	136ms/step
1/1	[======]	-	0s	128ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[======]	-	0s	132ms/step
1/1	[========]	-	0s	132ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[========]	-	0s	134ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[=======]	-	0s	144ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[=======]	-	0s	176ms/step
1/1	[=======]	-	0s	186ms/step
1/1	[=======]	-	0s	166ms/step
1/1	[=======]	-	0s	192ms/step
1/1	[========]	-	0s	185ms/step
1/1 1/1	[========]	-	0s 0s	177ms/step
1/1	[======]	_	0s	182ms/step 181ms/step
1/1	[=======]	_	0s	171ms/step
1/1	[=======]	_	0s	201ms/step
1/1	[======]	_	0s	200ms/step
1/1	[======]	_	0s	202ms/step
1/1	[======]	_	0s	199ms/step
1/1	[======]	_	0s	213ms/step
1/1	[=======]	_	0s	176ms/step
1/1	[=======]	_	0s	171ms/step
1/1	[======]	_	0s	174ms/step
1/1	[======]	-	0s	168ms/step
1/1	[=======]	-	0s	183ms/step
1/1	[======]	-	0s	169ms/step
1/1	[=======]	-	0s	172ms/step
1/1	[=======]	-	0s	167ms/step
1/1	[=======]	-	0s	162ms/step
1/1	[=======]	-	0s	195ms/step
1/1	[=======]	-	0s	161ms/step
1/1	[======]	-	0s	131ms/step
1/1	[=======]	-	0s	124ms/step
	[======]			123ms/step
	[]			
	[======]			-
	[======]			
	[=======]			
	[=======]			
	[=======]			
	[========]			129ms/step
	[]			
1/1	[=====]	-	ØS	135ms/step

1/1		-	0s	128ms/step
1/1	[======]	-	0s	135ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	124ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	137ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	134ms/step
1/1	[======]	-	0s	133ms/step
1/1	[======]	-	0s	124ms/step
1/1	[======]	-	0s	134ms/step
1/1	[======]	-	0s	145ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	126ms/step
1/1	[======]	-	0s	141ms/step
1/1	[======]	-	0s	137ms/step
1/1	[======]	-	0s	137ms/step
1/1	[======]	-	0s	137ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	142ms/step
1/1	[======]	-	0s	136ms/step
1/1	[======]	-	0s	143ms/step
1/1	[======]	-	0s	141ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	135ms/step
1/1	[======]	-	0s	143ms/step
1/1	[======]	-	0s	137ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	137ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	146ms/step
1/1	[======]	-	0s	127ms/step
1/1	[======]	-	0s	131ms/step
1/1	[======]	-	0s	144ms/step
1/1	[======]	-	0s	137ms/step
1/1	[======]	-	0s	191ms/step
1/1	[======]	-	0s	188ms/step
1/1	[======]	-	0s	173ms/step
1/1	[======]	-	0s	196ms/step
1/1	[======]	-	0s	180ms/step
1/1	[======]	-	0s	171ms/step
1/1	[======]	-	0s	204ms/step
1/1	[======]	-	0s	191ms/step
1/1	[======]	-	0s	187ms/step
1/1	[=======]	-	0s	181ms/step
	[=======]			178ms/step
	[=======]			
	[======]			173ms/step
	[=======]			182ms/step
	[=======]			175ms/step
	[======]			
	[=======]			
	[=======]			
	[=======]			
	[======]			
1/1	[=====]	-	05	TaTIII2\2ceb

1/1					
1/1	1/1	[======]	-	0s	163ms/step
1/1	1/1	[=======]	-	0s	126ms/step
1/1	1/1	[=======]	-	0s	136ms/step
1/1 [===================================	1/1	[=======]	-	0s	132ms/step
1/1	1/1	[=======]	-	0s	144ms/step
1/1	1/1	[======]	-	0s	134ms/step
1/1	1/1	[=======]	-	0s	130ms/step
1/1	1/1	[=======]	-	0s	135ms/step
1/1 [===================================	1/1	[======]	-	0s	133ms/step
1/1 [===================================		[]	-		
1/1	· .	[========]	-		
1/1 [===================================			-		
1/1 [===================================			-		
1/1 [===================================			-		
1/1 [===================================			-		
1/1 [===================================	· .				
1/1 [===================================		: :			
1/1 [===================================					
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1/1 [===================================			-		
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1/1	[======]	-	0s	174ms/step
1/1	[=======]	-	0s	165ms/step
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1/1	[=======]	-	0s	167ms/step
1/1	[=======]	-	0s	175ms/step
1/1	[======]	-	0s	198ms/step
1/1	[========]	-	0s	186ms/step
1/1	[========]	-	0s	177ms/step
1/1	[========]	-	0s	128ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	-	0s	
1/1	[========]	-	0s	136ms/step
1/1	[=======]	-	0s	139ms/step
1/1	[========]	-	0s	130ms/step
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1/1	[=======]	_	0s	135ms/step
1/1	[=======]	_	0s	137ms/step
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1/1	[======]	_	0s	133ms/step
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1/1	[=======]	-	0s	163ms/step
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1/1	[========]	-	0s	174ms/step
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1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	177ms/step
1/1	[======]	-	0s	169ms/step
1/1	[=======]	-	0s	174ms/step
1/1	[======]	-	0s	206ms/step
1/1	[======]	-	0s	182ms/step
1/1	[========]	-	0s	167ms/step
1/1	[========]	-	0s	197ms/step
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1 /1	r		0-	167mc/c+on

1/1	[======]	-	۷S	16/ms/step
1/1	[=======]	-	0s	126ms/step
1/1	[======]	-	0s	149ms/step
1/1	[=======]	-	0s	138ms/step
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1/1	[=======]	-	0s	130ms/step
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1/1	[=======]	-	0s	132ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	138ms/step
1/1	[=======]	-	0s	140ms/step
1/1	[=======]	-	0s	139ms/step
1/1	[=======]	-	0s	132ms/step 138ms/step
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1/1	[=======]	-		169ms/step
1/1	[=======]	-		200ms/step
1/1	[=======]	-		212ms/step
1/1	[=======]	-	0s	205ms/step
1/1	[======]	-	0s	174ms/step
1/1	[======]	-		183ms/step
1 /1	Г1		00	17/mc/c+on

1/1	[]	-	05	1/4IIIS/Step
1/1	[]	-	0s	190ms/step
1/1	[=======]	-	0s	173ms/step
1/1	[=======]	-	0s	197ms/step
1/1	[=======]	-	0s	183ms/step
1/1	[]	-	0s	196ms/step
1/1	[=======]	-	0s	182ms/step
1/1	[=======]	-	0s	187ms/step
1/1	[=======]	-	0s	195ms/step
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1/1	[]	-	0s 0s	175ms/step
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1/1	[========]	_	0s	130ms/step
1/1	[========]	_	0s	126ms/step
1/1	[========]	_	0s	138ms/step
1/1	[=======]	_	0s	131ms/step
1/1	[======]	_	0s	136ms/step
1/1	[=======]	_	0s	142ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[======]	-	0s	137ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[======]	-	0s	128ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	-	0s	143ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[======]	-	0s	129ms/step
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1/1	[======]	-	0s	146ms/step
1/1	[======]	-	0s	128ms/step
1/1	[======]	-	0s	132ms/step
1/1	[======]	-	0s	136ms/step
1/1	[=======]	-	0s	143ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	127ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s	138ms/step
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1/1	[]	-	0s	132ms/step
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1/1	[======]	_		137ms/step
1/1	[======]	_		143ms/step
1/1	[======]	_		143ms/step
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1/1	[=======]	-		130ms/step
1/1	[======]	-		128ms/step
1/1	[======]	-		137ms/step
1/1	[=======]	-		139ms/step
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1/1	[]	_	0s	131ms/step
1/1	[======]	_	0s	131ms/step
1/1	[======]	-	0s	153ms/step
1/1	[=======]	_	0s	136ms/step
1/1	[=======]	_	0s	177ms/step
1/1	[=======]	_	0s	194ms/step
1/1	[=======]	_	0s	189ms/step
1/1	[=======]	_	0s	188ms/step
1/1	[=======]	_	0s	163ms/step
1/1	[=======]	-	0s	186ms/step
1/1	[=======]	-	0s	166ms/step
1/1	[=======]	-	0s	224ms/step
1/1	[=======]	-	0s	206ms/step
1/1	[========]	-	0s	170ms/step
1/1	[=======]	-	0s	168ms/step
1/1	[=======]	-	0s	182ms/step
1/1	[=======]	-	0s	190ms/step
1/1	[=======]	-	0s	171ms/step
1/1	[=======]	-	0s	165ms/step
1/1	[]	-	0s	197ms/step
1/1	[=======]	-	0s	160ms/step
1/1	[=======]	-	0s	204ms/step
1/1	[========]	-	0s	201ms/step
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1/1	[========]	-	0s	126ms/step
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1/1	[========]	_	0s	143ms/step
1/1	[=======]	-	0s	124ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[]	-	0s	139ms/step
1/1	[=======]	-	0s	137ms/step
1/1	[=======]	-	0s	140ms/step
1/1	[=======]	-	0s	143ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	128ms/step
1/1	[=======]	-	0s	134ms/step
1/1	[========]	-	0s	137ms/step
1/1	[========]	-	0s	147ms/step
1/1	[]	-	0s	139ms/step
1/1 1/1	[======]	-	0s	133ms/step 130ms/step
1/1	[======]	_	0s 0s	128ms/step
1/1	[=======]	_	0s	139ms/step
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	[]			
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1/1	[======]	-	0s	147ms/step
1/1	[]	-	0s	136ms/step
	[]			
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1/1	[======]	-	0s	130ms/sten

1/1	[======]	_	0s	132ms/step
1/1	[=======]	_		136ms/step
1/1	[=======]	_		122ms/step
1/1	[======]	_		155ms/step
1/1	[======]	_	0s	135ms/step
1/1	[=======]	-	0s	142ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[========]	-	0s	127ms/step
1/1	[======]	-	0s	140ms/step
1/1	[======]	-	0s	146ms/step
1/1	[======]	-	0s	129ms/step
1/1	[======]	-	0s	130ms/step
1/1	[======]	-	0s	139ms/step
1/1	[=======]	-	0s	136ms/step
1/1	[=======]	-	0s	142ms/step
1/1	[=======]	-	0s	208ms/step
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1/1	[=======]	-	0s 0s	205ms/step
1/1 1/1	[=======]	-	0S	189ms/step
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1/1	[=======]	_	0s	210ms/step
1/1	[=======]	_	0s	210ms/step
1/1	[=======]	_	0s	166ms/step
1/1	[======]	_	0s	168ms/step
1/1	[======]	_	0s	163ms/step
1/1	[=======]	-	0s	199ms/step
1/1	[=======]	-	0s	201ms/step
1/1	[========]	-	0s	187ms/step
1/1	[======]	-	0s	194ms/step
1/1	[======]	-	0s	194ms/step
1/1	[======]	-	0s	195ms/step
1/1	[======]	-	0s	201ms/step
1/1	[=======]	-	0s	185ms/step
1/1	[=======]	-	0s	199ms/step
1/1	[=======]	-	0s	133ms/step
1/1	[=======]	-	0s 0s	130ms/step
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1/1	[=======]	-	0s	142ms/step
1/1	[=======]	_	0s	137ms/step
1/1	[=======]	_	0s	134ms/step
1/1	[======]	_	0s	141ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	-	0s	132ms/step
1/1	[========]	-	0s	138ms/step
1/1	[======]	-	0s	131ms/step
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1/1	[=======]	-	0s	145ms/step
1/1	[=======]	-	0s	131ms/step
1/1	[=======]	-	0s	150ms/step
1/1	[======]	-	0s	136ms/step
1/1	[]	-	0s	145ms/step
1/1	[=======]	-	0s	144ms/step
1/1	[=======]	-	0s	148ms/step
1/1	[=======]	-	0s	142ms/step
	[=======]			
	[=======]			134ms/step
	[=======]			•
1/1	[=======]	-	0s	145ms/step
1/1	[=======]	-	0s	150ms/step
1/1	[=======]			138ms/step
1/1	[=======]	-	0s	146ms/step
1/1	[=======]			
	[=======]			138ms/step
	[=======]			
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	[=======]			
1/1	[=======]			153ms/step
1/1	[=======]			185ms/step
	[=======]			237ms/step
	[=======]			
	[=======]			175ms/step
	[=======]			180ms/step
	[=======]	-	0s	228ms/step
	[=======]		0s	196ms/step
	[=======]			
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1/1	[=======]			197ms/step
1/1	[=======]			202ms/step
1/1	[=======]			198ms/step
	[=======]			179ms/step
1/1	[=======]	-	0s	180ms/step
1/1	[=======]	-	0s	174ms/step
1/1	[=======]	-	0s	181ms/step
1/1	[]	-	0s	201ms/step
1/1	[=======]	-	0s	196ms/step
1/1	[=======]	-	0s	188ms/step
1/1	[=======]	-	0s	129ms/step
1/1	[=======]	-	0s	142ms/step
1/1	[=========]	-	0s	142ms/step
1/1	[========]	-	0s	141ms/step
1/1	[=========]	-	0s	142ms/step
1/1	[========]	-	0s	145ms/step
1/1	[=======]	-	0s	138ms/step
1/1	[=======]	-	0s	138ms/step
1/1	[=======]	-	0s	135ms/step
1/1	[=======]	-	0s	142ms/step
1/1	[======]	-	0s	154ms/step
1/1	[======]	-	0s	137ms/step
1/1	[======]	-	0s	139ms/step
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	[]			
	[]			
	[======]			
1/1	[======]	-	0s	127ms/step

metrics for test:
 accuracy 0.9458:
 balanced accuracy 0.9458:

```
1 model = Model()
2 model.load('best_train_small')
3
4 # evaluating model on 10% of test dataset
5 pred_2 = model.test_on_dataset(d_test, limit = 0.1)
6 Metrics.print_all(d_test.labels[:len(pred_2)], pred_2, '10% of test')
```

Downloading... From: https://drive.google.com/uc?export=download&id=1-iDYVa2CxinJ82482IGt kvOZRDH1Wel To: /content/best train small.h5 100% | 107M/107M [00:01<00:00, 88.8MB/s] 100% 450/450 [01:26<00:00. 3.77it/s] 1/1 [======] - 1s 1s/step 1/1 [=======] - 0s 138ms/step 1/1 [=======] - 0s 124ms/step 1/1 [======] - 0s 127ms/step 1/1 [=======] - 0s 122ms/step 1/1 [========] - 0s 127ms/sten 1/1 [=======] - 0s 126ms/step 1/1 [=======] - 0s 138ms/step 1/1 [=======] - 0s 124ms/step 1/1 [=======] - 0s 130ms/step 1/1 [======] - 0s 122ms/step 1/1 [=======] - 0s 132ms/step 1/1 [=======] - 0s 126ms/step 1/1 [=======] - 0s 132ms/step 1/1 [=======] - 0s 128ms/step 1/1 [======] - 0s 126ms/step 1/1 [======] - 0s 145ms/step 1/1 [=======] - 0s 127ms/step 1/1 [======] - 0s 123ms/step 1/1 [=======] - 0s 122ms/step 1/1 [=======] - 0s 133ms/step 1/1 [=======] - 0s 135ms/step 1/1 [=======] - 0s 127ms/step 1/1 [=======] - 0s 128ms/step 1/1 [=======] - 0s 128ms/step 1/1 [=======] - 0s 127ms/step 1/1 [=======] - 0s 137ms/step 1/1 [=======] - 0s 131ms/step

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metrics for 10% of test:
    accuracy 0.9911:
    balanced accuracy 0.9911:
/usr/local/lib/python3.10/dist-packages/sklearn/metrics/_classification.py:2184: UserWarning: y_pred contains classes not in y_true
 warnings.warn("y_pred contains classes not in y_true")
```

Результат работы пайплайна обучения и тестирования выше тоже будет оцениваться. Поэтому не забудьте присылать на проверку ноутбук с выполнеными ячейками кода с демонстрациями метрик обучения, графиками и т.п. В этом пайплайне Вам необходимо продемонстрировать работу всех реализованных дополнений, улучшений и т.п.

Настоятельно рекомендуется после получения пайплайна с полными результатами обучения экспортировать ноутбук в pdf (файл -> печать) и прислать этот pdf вместе с самим ноутбуком.

∨ Тестирование модели на других наборах данных

Ваша модель должна поддерживать тестирование на других наборах данных. Для удобства, Вам предоставляется набор данных test_tiny, который представляет собой малую часть (2% изображений) набора test. Ниже приведен фрагмент кода, который будет осуществлять тестирование для оценивания Вашей модели на дополнительных тестовых наборах данных.

Прежде чем отсылать задание на проверку, убедитесь в работоспособности фрагмента кода ниже.

```
1 final_model = Model()
2 final_model.load('best')
3 d_test_tiny = Dataset('test_tiny')
4 pred = model.test_on_dataset(d_test_tiny)
5 Metrics.print_all(d_test_tiny.labels, pred, 'test-tiny')
```

```
Downloading...
   From: https://drive.google.com/uc?export=download&id=1-jDYVa2CxinJ82482IGt kv0ZRDH1Wgl
   To: /content/best.h5
   100%| 100%| 107M/107M [00:01<00:00, 89.0MB/s]
   Downloading...
   From: https://drive.google.com/uc?export=download&confirm=pbef&id=106bDJsIxs13gmKfeSepKRz9i44kWOXvC
   To: /content/test tiny.npz
       10.6M/10.6M [00:00<00:00, 50.5MB/s]Loading dataset test tiny from npz.
   Done. Dataset test tiny consists of 90 images.
   100%
                              90/90 [00:17<00:00, 5.80it/s]
   1/1 [======= ] - 0s 134ms/step
   1/1 [=======] - 0s 136ms/step
   1/1 [======= ] - 0s 140ms/step
   1/1 [======] - 0s 132ms/step
   1/1 [======= ] - 0s 134ms/step
   1/1 [======] - 0s 129ms/step
   1/1 [======= ] - 0s 132ms/step
   1/1 [======= ] - 0s 135ms/step
   1/1 [======= ] - 0s 140ms/step
   1/1 [======] - 0s 131ms/step
   1/1 [======] - 0s 129ms/step
   1/1 [======] - 0s 150ms/step
   1/1 [======= ] - 0s 132ms/step
   1/1 [======= ] - 0s 138ms/step
   1/1 [======] - 0s 137ms/step
   1/1 [======= ] - 0s 131ms/step
   1/1 [======= ] - 0s 131ms/step
   1/1 [======] - 0s 137ms/step
   1/1 [======= ] - 0s 166ms/step
   1/1 [======= ] - 0s 175ms/step
   1/1 [======] - 0s 171ms/step
   1/1 [======] - 0s 184ms/step
   1/1 [======= ] - 0s 175ms/step
   1/1 [======= ] - 0s 192ms/step
   1/1 [======] - 0s 175ms/step
   1/1 [======= ] - 0s 182ms/step
   1/1 [======] - 0s 173ms/step
   1/1 [======= ] - 0s 177ms/step
   1/1 [======] - 0s 174ms/step
   1/1 [======] - 0s 172ms/step
   1/1 [======== ] - 0s 176ms/step
   1/1 [======] - 0s 176ms/step
   1/1 [======= ] - 0s 168ms/step
   1/1 [======= ] - 0s 177ms/step
Отмонтировать Google Drive.
   1 drive.flush and unmount()
   1/1 [-----1 - 0c 127mc/c+on
```

Ниже приведены примеры использования различных функций и библиотек, которые могут быть полезны при выполнении данного практического задания.

∨ Измерение времени работы кода

Измерять время работы какой-либо функции можно легко и непринужденно при помощи функции timeit из соответствующего модуля:

```
1 import timeit
2
3 def factorial(n):
4    res = 1
5    for i in range(1, n + 1):
6         res *= i
7    return res
8
9
10 def f():
11    return factorial(n=1000)
12
13 n_runs = 128
14 print(f'Function f is caluclated {n_runs} times in {timeit.timeit(f, number=n_runs)}s.')
```

→ Scikit-learn

Для использования "классических" алгоритмов машинного обучения рекомендуется использовать библиотеку scikit-learn (https://scikit-learn.org/stable/). Пример классификации изображений цифр из набора данных MNIST при помощи классификатора SVM:

```
1 # Standard scientific Python imports
 2 import matplotlib.pyplot as plt
 3
 4 # Import datasets, classifiers and performance metrics
 5 from sklearn import datasets, svm, metrics
 6 from sklearn.model selection import train test split
 8 # The digits dataset
 9 digits = datasets.load digits()
11 # The data that we are interested in is made of 8x8 images of digits, let's
12 # have a look at the first 4 images, stored in the `images` attribute of the
13 # dataset. If we were working from image files, we could load them using
14 # matplotlib.pyplot.imread. Note that each image must have the same size. For these
15 # images, we know which digit they represent: it is given in the 'target' of
16 # the dataset.
17 , axes = plt.subplots(2, 4)
18 images_and_labels = list(zip(digits.images, digits.target))
19 for ax, (image, label) in zip(axes[0, :], images and labels[:4]):
20
      ax.set axis off()
21
      ax.imshow(image, cmap=plt.cm.gray_r, interpolation='nearest')
22
      ax.set title('Training: %i' % label)
23
24 # To apply a classifier on this data, we need to flatten the image, to
25 # turn the data in a (samples, feature) matrix:
26 n samples = len(digits.images)
27 data = digits.images.reshape((n samples, -1))
28
29 # Create a classifier: a support vector classifier
30 classifier = svm.SVC(gamma=0.001)
31
32 # Split data into train and test subsets
33 X train, X test, y train, y test = train test split(
34
      data, digits.target, test_size=0.5, shuffle=False)
35
36 # We learn the digits on the first half of the digits
37 classifier.fit(X train, y train)
38
39 # Now predict the value of the digit on the second half:
40 predicted = classifier.predict(X_test)
42 images and predictions = list(zip(digits.images[n samples // 2:], predicted))
43 for ax, (image, prediction) in zip(axes[1, :], images and predictions[:4]):
      ax.set axis off()
      ax.imshow(image, cmap=plt.cm.gray_r, interpolation='nearest')
45
46
      ax.set_title('Prediction: %i' % prediction)
47
48 print("Classification report for classifier %s:\n%s\n"
        % (classifier, metrics.classification_report(y_test, predicted)))
50 disp = metrics.plot confusion matrix(classifier, X test, y test)
51 disp.figure_.suptitle("Confusion Matrix")
52 print("Confusion matrix:\n%s" % disp.confusion_matrix)
53
54 plt.show()
```

Scikit-image

Реализовывать различные операции для работы с изображениями можно как самостоятельно, работая с массивами numpy, так и используя специализированные библиотеки, например, scikit-image (https://scikit-image.org/). Ниже приведен пример использования Canny edge detector.

```
1 import numpy as np
 2 import matplotlib.pyplot as plt
 3 from scipy import ndimage as ndi
 5 from skimage import feature
 8 # Generate noisy image of a square
9 \text{ im} = \text{np.zeros}((128, 128))
10 \text{ im}[32:-32, 32:-32] = 1
11
12 im = ndi.rotate(im, 15, mode='constant')
13 im = ndi.gaussian filter(im, 4)
14 im += 0.2 * np.random.random(im.shape)
15
16 # Compute the Canny filter for two values of sigma
17 edges1 = feature.canny(im)
18 edges2 = feature.canny(im, sigma=3)
19
20 # display results
21 fig, (ax1, ax2, ax3) = plt.subplots(nrows=1, ncols=3, figsize=(8, 3),
22
                                       sharex=True, sharey=True)
23
24 ax1.imshow(im, cmap=plt.cm.gray)
25 ax1.axis('off')
26 ax1.set_title('noisy image', fontsize=20)
28 ax2.imshow(edges1, cmap=plt.cm.gray)
29 ax2.axis('off')
30 ax2.set_title(r'Canny filter, $\sigma=1$', fontsize=20)
```