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- "extracting: Dataset/training set/I/1303.png \n",

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  "b=len(x_test)"
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]
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 "model=Sequential()"
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 "metadata": {
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 "source": [
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```

```
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  "#2nd hidden layer\n",
 "model.add(Dense(units=261,activation='relu'))"
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 "source": [
  "#output layer\n",
```

```
"model.add(Dense(units=9,activation='softmax'))"
]
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 },
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]
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 "cell_type": "markdown",
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```

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`Model.fit_generator` is deprecated and will be removed in a future version. Please use `Model.fit`,
which supports generators.\n",
      " \"\"Entry point for launching an IPython kernel.\n"
     ]
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    {
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val loss: 0.2797 - val accuracy: 0.9529\n",
    "Epoch 2/10\n",
    "79/79 [========================] - 86s 1s/step - loss: 0.0419 - accuracy: 0.9884 -
val_loss: 0.2846 - val_accuracy: 0.9751\n",
    "Epoch 3/10\n",
    "79/79 [=============] - 84s 1s/step - loss: 0.0195 - accuracy: 0.9947 -
val loss: 0.3436 - val accuracy: 0.9751\n",
    "Epoch 4/10\n",
    "79/79 [=============] - 87s 1s/step - loss: 0.0083 - accuracy: 0.9982 -
val loss: 0.3722 - val_accuracy: 0.9751\n",
    "Epoch 5/10\n",
    "79/79 [=============] - 83s 1s/step - loss: 0.0066 - accuracy: 0.9983 -
val_loss: 0.4095 - val_accuracy: 0.9756\n",
    "Epoch 6/10\n",
    val_loss: 0.3874 - val_accuracy: 0.9756\n",
    "Epoch 7/10\n",
    val_loss: 0.3891 - val_accuracy: 0.9747\n",
    "Epoch 8/10\n",
    "79/79 [============] - 86s 1s/step - loss: 0.0027 - accuracy: 0.9992 -
val_loss: 0.4429 - val_accuracy: 0.9756\n",
    "Epoch 9/10\n",
    val_loss: 0.4907 - val_accuracy: 0.9756\n",
    "Epoch 10/10\n",
```

```
"79/79 [===========] - 85s 1s/step - loss: 0.0048 - accuracy: 0.9987 -
val loss: 0.4866 - val accuracy: 0.9702\n"
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ation_steps=len(x_test))"
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```

```
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]
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```

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  "import numpy as np\n",
  "import cv2\n",
  "from tensorflow.keras.preprocessing import image"
]
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  "output_type": "execute_result"
 }
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]
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]
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{
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```

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  "def detect(frame):\n",
  " img=resize(frame,(64,64,1))\n",
 " img=np.expand_dims(img,axis=0)\n",
  " if(np.max(img)>1):\n",
 " prediction=model.predict(img)\n",
 " print(prediction)\n",
     prediction=model.predict_classes(img)\n",
     print(prediction)"
]
},
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]
```

```
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]

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```
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   "data=detect(frame)\n",
   "from google.colab.patches import cv2_imshow\n",
   "cv2_imshow(frame)\n",
   "cv2.waitKey(0)\n",
   "cv2.destroyAllWindows()"
  ]
 }
],
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  "provenance": []
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