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        "from keras.preprocessing.image import ImageDataGenerator"
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             folder path = r'test dataset/'+file name\n",
        "\n",
        **
             num = 0 \n'',
             for file in os.listdir(folder path):\n",
                 # if num%10 == 0:\n'',
                      print(f'Renamed {num} files...')\n",
                 # os.rename(folder path+'\\\'+file,
folder_path+'\\\'+file_name+'_'+str(num)+'.jpeg')\n",
                 num += 1"
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         \n",
         img = cv2.cvtColor(img,cv2.COLOR BGR2RGB) \n",
    **
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        ax = fig.add subplot(111) \n",
        plt.title(sign)\n",
        ax.imshow(img)"
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fZaqOrij6q7YQcn+byYKQ01LynpAKk5Np3FebaOJ9ndL6EdL/XXb9V+0/rk11PQekzuYRlmiDAp2k +s3ZjxRWV/9bP/xI3+z1/7L/z00z1jizGfkw0sw1GW+d6emO90j3LqAqmF1I7vRkvF5uhEwd65NCI XK6N6tBSd4hNCNrq2sT3Q42+j7WA2B5vtV509U3a9wand1v0TjpE91i1uZMiTCSsvC+p2f1n/NhEP LhtChHbpL82pS6LG/iF6kIpxfeoxan1koTuaLrb7Wh15u7+nuF1WbXdStDsZaWir92uOBqNQU/vNZ m53YN011kJCBWht77MoF14JW1n1CN4ZmuFbGoeQXPHjQ9V66OeU68qBDfhOxycaXc+u0WHU639vju dheNxz24/RjU1UUrmS1/6InfHOz766CUffvAdpmXmDyTj/8/ev8XKlmXnmdg35pxrRcTe55y8VGXW XWSRFEmJlEhaEmVbOLcsv5BktNGWYON6sRtww/JDG/aDH7rbL7bREGADvjw1DEhPqqGjIdhot9C22 pAazVbLEiWSzYuqylW8VWVlVWaekyfPbe8dEWvNy/DDGHOt2CezipmsYlVWZYzEzr3P3nFZa0XE/O cY4x///8d+9EdRhLcfPeI4TRCT69sFQjA/rJqLsxKDz1oJ42ZDHAJaC63NzKVwOBzQVohJzIZ9SAS sLGu2GcWday177++1GMUNH13U1c3MbXM2UJqSa+M4FyM6eDVZQkRruVVYvp0fnb0172acQekHMvqH wD9wtGXhASvP3L//jP2hcsyNaZq5N0ZqtMa8lbl899czEM8aaiu+o+97wMbpomclG3FBg176MwAwZ p0ux2BjivVEAi/2bf2ylOpyPFbC6rM6a4FqbVSpL1SL9ptYVlR7j4R1qV9UGHo/pS/s0suGvY/Vh1 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7tRAzWXFwdjELPrHCfIVlSoIX40EuQS39Blv7VOlRq161nhSK4IG1AkykqINHKna2fG4hUhnkkz0f 7dwhsdzsUOByuOc4TV1fPqHVLiMImjXSzObuefs09uzEFCS85ucuqZWS3LRbWvNUByW+/qqP7Y3cL dqu70i+10MuaLL24/t5SNc3BrnLRZ6K6jQQO3v21mVwdfRqGxnFq3GxoDXIrXN695NObT1HazP13H vDFL/4mSuGVV18hSKXmI60pY0oIwnw9M24iuRjrLxezQx9TZDNEUoqMbDyrtdfKMrSZORe0qOkYuh 8YGozY0PoqdH9796u/shprMwUMlUBpLnLbU+72LbpGcvL9DEzftTiD0q9knO6oWb7bIizQhAx87Wt 7sXYczYoui6Kt5r5rS/Azf+vKyCdqE9/NpFw0t7qEOqZU2vLorHaayx3X7InW+fs5FtTWm20WhewD rhxX1ifP40DYYr0BMVsvyNI43C4YX/YI0EZNqNhDCRxdmCvm7Zus25Z6lJ4WyS01EzoWqPzItVB9e Sq/ZqtnbUVuOz/vUzX+3DdlXUlfbTlnrUWas4kN1jsw9U247OCX2uFnPMCTCI7UkpstlvimMjzRKX wiU+9StwI9x/c59d/41f4kR/5ET796c8wpsScq11bbQiFMCSCBEKzOa1WleyW6Cla/7Cq9eDGzcas LNQks2oxbaugskhJaRNqaWQtxth0UFJZs8MO9N2ry6SfQCOY9vEZdb6XcQalH8j4dh8QgTSCNKac+ cqXv8pnPn2Hn/rxjxO2sItbBwZTVjZfoeaGeD7c2KCJecuCEsNS76PbsfasqLPVQoynM4bea+qLQN 9ZW/O5++/YYrku8NYa8Z5A/7ef0u1TXFBsqWdbqKznhDf019me1qqYw86skvoQMAv4qmGNqf/Y8bV WfACzmdqpLAQRYkCaib/GITFsBsqshKiEFNnUHVUr+bBnzpnD8YAGGDcDw2ZgCCOhXx8RL4NaRmm6 bJWuNdh9pBbfohNQXCji+h7vCT/mjtNycu06nVvVwFelZ044WcAActWfE2qvImqXi+ryTG3JmlSVO 3dfYhw31DxOKRzzqd3FjpdeusfDd97mtdd+n5iEV195hSEO5JoRVXbbqausRhuXEY1OcjC1jDwzz4 OYAtqKZfJiKiTDYNkZuZjWXTHeqAp+7TwTqidlTkB6LcCHpE3mymsAcnpJ3w1K3+ZP5/qO4wxKPyR x0iEAxIRMU+CtB2/zxltv89M//Vk08567Y6SqzSqFbaiY66zqltDFswvt+OOCpNiH2DIqesVpoeWG GFxMVd51XA3WHb+X6NTLZUtXxckSBjDNAVHosjt9IenRvNTUvyvGVOh+Q/1vzYcsVcQHLUPv4qCeT /kiGwRSDEvJCp956Y8Zqiy080Zq088TMY1stztmEQeyxjiM1HFLPU60pszTbITkOoDszLQuRL8Wql ChWnbg6Lz0jNSztuVVVhazRl1Kric1JpWT3tjt12MtX0K3BF96aV7aizGQ0gZtzdTRWzOLkbDeD7o B38qwREopJrM0TZQWeOG1F0z5PES2GzvfcZOQIDx7dsXrX/86JRdeeeXVBXzHYcfQip2cFjRAFStx dkWGnBspWHmx+RsxDRtiGqiHI4dpIk8zuVnW1GR1OTblD+ijAN0VTH1TUFXJpVK76aVrQ3LaX2XNr J774J3juxRnUPoBj6W3A3RJH+YZsDmQMilf/sJr/MSPfo6f+ckfYz7O1BBoweaQ4qCMAepxZs6NMQ 5EidDMHjoG2/lLqFYrZSqU0pAUGXY74iAQjDYuMRDUPGxEwmIzERCn1apPsJorqiRfJOl+SJHeI1r OGKIyw7/FiE/QYN1E088dAaLeCzEeb22WIZmQq80zhdAtIE5VDYAFxASz6bBFUBFSHBAiWqoPWLk2 XVBqaLSQiMOWUaFVpcwG3eMY2IaRdsyY4sDIZtwSY6DMlTlmNltb2EUErQ3RwuC6fqWaRBRNSQ6Kturce Annual Control of the ContrfeVPOOUJA704D4WS2lUfTENdGaduOmIvR4xwjyZYvd2u0XBMh0RwjiYp5Na5lBqpjTffAQhprT0vU IM9m+BnGdKLlw9fUYaBjbDQCBxubtrYwUtIC8PJHnEW/ff4urZ73N9deTTn/40292OMs9IqYQKsdm 8XAiBKchSsqzSxwKaW82zqEZKwkaFRvCSXSU3pbh6eG262KzEYMK+1WfessL1/sBx0iWLXvZXJxk5 J9/PgPRHE2dQ+gGPPtbJ8t1EU1WUQSLzsfLGN57yj3/pN5AS+YUf/zGG3QZtM3M+wjRDSgwxEgfQO RvTDR+e1c7gMmuEUm2GI/puvLWKzcW43UXwtdvLGrbh9Dg/Nm/mu+9NB4Xmu1X1RnUnT4uVFPtutn kJqjbLAmynb9+7bI31w3RxJrVekMkNBWRR7NYT0oVdR+hsxN4zMydekBZdkbwTNjAvHqRiOhRiGAh xZEiWWUpLFA2kaPpxIpExbYijUGuhzBmh2cBpjGhTokR7TAkOpqu6dyeboL0X2JBqzMee+SA4IHU1 DTcDxK5Tk0ZoatK5YiVCxGZ1rF/Wq3tW2vXKoiUuaiUuCTZP1ZrR52suSza23W0Zxw37/Uw+zLRsm 49huzGDwYsGGqkFbvYTT58+5f5bD61F+firr/DCC/cYRIjBHF8RGIZEEt06m6YGtRrAeDbbr4/WSv AybRBFqm8spC18UOsvQiD6+Y1Zq6h1LAmNWjM1N3sTO/uOk/fIbZEtTpHrO/8wnwM4q9IPWTq1YPn AWjYwT8r/70tv8OM/+mP8wk8mrqcDG2mMUWjN5P3HCCUXQjODBqCa0qKmG9YKNRe0NILYAG1rlVZd SCh1Rl0jdvJE8za7eBbSTktFjlpSoWvN+fCsesPZmtGNUJ26rifsB009qN78t9v27Ee9cy2tmXWCd DNrbpXlFvIALka7ZBfWNwtBkGqzSZz0upo3amKIBuIxkIbBdedAi/Wj0jjQpmJUexpD2BDEDPRyzt RqunooVAloa6Q0GAvOGXBtOc8OpM1VKPy6OPkjOlquFTtDMdRlfURl6ftJMGo3CHOeTZInxaVUi5c zkQ5Cdn1tvikstPzq/lcxRsbR3IpLuWKajrRjXYRcN2nD5eUdTME7841XP0GMkbfffsBrr73GnGfG cWC73QIBpmzeSyEyDhFhNKDWhhZjHNZ6YmveGkmra/2dvMe8B2j+S2sfrv17W3vpuEGQxDzP7K+r9 agUnh+8fjf0nJtK3+04g9IPfPQKt5z8bGSBebYp9DR4czoMyJg4Ts4ISwHNPtBZCtPNgTvjpRPqhI ${\tt I1iq0MMtFKJdTAMALBgESrIqZls6CB6ai5gZr3XpoUQh8QpTOcTmR+wBlgPtTpZbXQFRm8H2Bq27KB} \\$ sA89zIE4viagrcp+sK3K68z0lCCyCgazzS/5gy3Cpu8r2ntPicgvVyoypElMioGSAGNhdbCj1yJwn jsfEOEbSEPz6OaGidnZdV3wIpPTuj2ZnJXYGXFG7FqKr3UUncujJ26IDWT9/G/q1P6bWmqmFp8q4j KA2OGuMO9MCtJmkbCaGJ26wKdhx3rKgb8o4juS8p1YbcC21sMkjL770IpuNCb+GGAgxUGvm4cOHPH r8iDQkPvPZT5noq1bmfERF7PZBGcaIxBGZq0kPsapRKOtcUlmINOvraSK+YVF56Ew7dYuP2iqtKNN emG9YcaazRN6LSHKOP5I4q9IPatzaoPXCqpXxUkqUkn23DSXbwvzaa6/z5sMf40c//SKimf3hhjQf 2QwbYhjYjpFBYKA3fvHFspJbtWl9GRklLn0KOxRZhuTxjKenO+qkhoYthFY+ESSaseDpRlSdDNV63 Y9ea2u28Oq6qPbnXeeSTi+N0bfBSnBmo968J7L6OXVtuIVC0RkcXWViSSviSbZwUsZxerikiNRG0E RoXj4qJli6u7zqOF8zXxO4HK4ZN5G74yUXmy2qjVIztVSKs+xUAxIrIQ2kW+DYi3ms2UC/ROrPKdj 8kXsIme1CXc7N5HQcVEieiemSWUkQqtPqa8VtTZIb5DVatb5WFwKuYu+1cUyEkPxqTPpHdUutiZwz 19fPOEyByzsXXFxcUGvh5rDnkks++clPEWPk8dMnfPON16lt4oUX7rHb7YgRf60aEpSUhBD9FdNAR qli2ZpEFsC20+31x2WH4qXOrggvy0vecMZjw1Qc6snnq3+d43sWZ1D6QY4FmHqm5PNAfS0Vm8Epxb KML3zht7n3QuAv/sWf40c++TJRC3eTEMdImerS4LUMQ43Bp6anXGujNmNDrQOwzRY3VwG30o8sqtS mft0X/Q4gPsTqWkY9c1oFWpXgTECVtZ+10sutLyB+p1sKDr0651cjYrp5fTeNet/JSzpLCXEhirAI eaqX+ASXNAJWdQV/3hqIGkGDmx8Cpdj5poBsEoOMbLYj00HIJTPPB0oZ2GwurZSEDXeGYFp2cynoN Bspw4310mr0bMRAAtA+9+UMymgkAHS1xuglztv9s9v/jj6P10WbmpgFffB5HTNXNA+klBK12nzSPM +01hiGyMXFBZeX14zjFm0wDJFaG/v9DTc3xj68vr5mu92w2+2YXInh8vICeIWqjYcPH/DNN770zf4 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nUNzedyaQhoyWhyTyodjZr7BX4qmI7xhyY187N23X9M/euHHcL/JvB/N7MZ+I6IvA78GeCX/zFf6y 1+SkMBrTAG5VCdczpNFxwOO2yfifcC3/j1N8mHzD/3V3+eX/jca8yPrsk3ldCcb+RWFG7VHYMPzLU Pu0utfVEGWNtS6+Joj1Jr2vXYBKHPjIKrjQuht4puEXiN1hFYSluB3XacezsiXHBH2bBWQZ3QK161 tGa3qLs1eqWkvTLyfw1wHpL1qks6dNzfQ0Fr18qzheq26w4A9Ns7hqy4/Zs1F/IyE6iIuRRSawvPP TjzZK4NCZCGhEYHP0gVilVKr5Ssl7iN5hpzWOdwRTZDJC+FXAuyLEybqTvvhmfg3suyINV5Sod556 i35K3TWqtkc6KsNpoJUvQI/V7bfq25/t6yQO5VWO7tz6NZY8OV44Vu9GdIh5EfuWUryMT8tloV1Ua IwhAGGrGfN7e9sI7EC9Hne1aNzdnIk8OBiweJJ4cMmVPciR9ppiTeIP/7wFeB/5OZ/YqI/HXqfy4i /0Pq14D/pZk9Bj4L/L07D/9Bv+2jz/mvAf/aP+brP8VPUbTWCHHEmrAsBZFICkq+OVC18a2vv0ebK vLnjT/20mfItdHqqIaEipFCIGkq9tlPs+YkU3GI9wpBrk0ItaDmZNfWViCAz0ViSMRuxe1ind0GW9 13CATp7n+qDrW2Wmni4qoi7klkHcGqx0TqCdBnRBBC6ii5TpaVQFOHVawtPesoMKxzqnqbUqUdoeP CLZdHzW8LwVUGzMDE4eG2JjmgtsqyzOx3NwQa2MCQjVwOpCiMYySObtFe5+xtwf6cUYWiQooRo/ZO 11ByxdR7VjoMjENCY+ZmtyNbY5tGKNmBE+aPNXOXYFGhNCgVxsFbiUalzI7uIwSGjUtDLV1+yKWFP 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            "Found 41625 images belonging to 37 classes.\n"
        }
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target_size=(250,250),\n",
                                                      batch size=16, \n'',
                                                      shuffle=True, \n",
                                                      class mode='binary', \n",
                                                      subset='training')"
      ]
    },
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      "metadata": {
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      "source": [
        "## Validation Data Generator"
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      "outputs": [
          "name": "stdout",
          "output type": "stream",
          "text": [
            "Found 13875 images belonging to 37 classes.\n"
          ]
        }
      ],
      "source": [
```

```
"validation data gen =
image gen.flow from directory (train data path, \n",
target_size=(250,250),\n",
                                                      batch size=16, \n'',
        "
                                                      shuffle=True, \n",
                                                      class mode='binary', \n",
                                                      subset='validation')"
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      "outputs": [
        {
          "name": "stdout",
          "output_type": "stream",
          "text": [
            "Found 2586 images belonging to 37 classes.\n"
        }
      ],
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        "test data gen = image gen.flow from directory(test data path, \n",
target size=(250, 250), \n",
                                                      batch size=8,\n",
                                                      shuffle=True, \n",
class mode='categorical', \n",
                                                      ) "
      ]
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      },
      "outputs": [
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          " '2': 2,\n",
          " '3': 3,\n",
          " '4': 4,\n",
          " '5': 5,\n",
          " '6': 6,\n",
          " '7': 7,\n",
          " '8': 8,\n",
          " '9': 9,\n",
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          " 'B': 11,\n",
          " 'C': 12,\n",
          " 'D': 13,\n",
          " 'E': 14,\n",
          " 'F': 15,\n",
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          " 'H': 17,\n",
          " 'I': 18,\n",
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          " 'M': 22,\n",
          " 'N': 23,\n",
          "'o': 24,\n",
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          " 'Q': 26,\n",
          " 'R': 27,\n",
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          " 'Space': 29,\n",
          " 'T': 30,\n",
          " 'U': 31,\n",
          "'V': 32,\n",
          " 'W': 33,\n",
          " 'X': 34,\n",
          " 'Y': 35,\n",
          " 'Z': 36}"
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      "metadata": {},
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    "train_data_gen.class_indices"
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```

```
"outputId": "74dc2339-75c0-4f1e-c530-d1aa0dee3afd"
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      } ,
      "execution count": 34,
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      "output type": "execute result"
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    "test data gen.classes"
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        ]
      } ,
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      "metadata": {},
      "output type": "execute result"
    }
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    "len(train_data_gen.classes)"
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  "outputs": [
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          "2586"
        1
      },
```

```
"execution count": 36,
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    ],
    "source": [
     "len(test_data_gen.classes)"
  },
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    "version": "3.9.7"
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