

PNT2022TMID52343

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"import numpy as np\n",

"from tensorflow import keras\n",

"import os\n",

"import cv2\n",

"from tensorflow.keras.preprocessing.image import ImageDataGenerator\n",

"from tensorflow.keras.preprocessing import image"

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Define the parameters/arguments for ImageDataGenerator class

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    "                           horizontal_flip=True)\n",
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        class_mode = 'binary' )\"
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                                batch_size = 32,\\n\",
    \"
                                class_mode = 'binary' )\"
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        "#to create convolution kernel import convolution2D\n",
        "from keras.layers import Convolution2D\n",
        "#import Maxpooling layer\n",
        "from keras.layers import MaxPooling2D\n",
        "#import flatten layer\n",
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val_loss: 0.2470 - val_accuracy: 0.9421\n",
      "Epoch 2/5\n",
      "14/14 [=====] - 36s 3s/step - loss: 0.3486 - accuracy: 0.8280 -
val_loss: 0.1461 - val_accuracy: 0.9752\n",
      "Epoch 3/5\n",
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val_loss: 0.0464 - val_accuracy: 0.9917\n",
      "Epoch 4/5\n",
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val_loss: 0.0730 - val_accuracy: 0.9669\n",
      "Epoch 5/5\n",
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,
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    "print(len(predictions))"
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    "id": "PYFNH2wjFkUf",
    "outputId": "cd32efd4-8b2a-4875-fb5f-5b55515d3e85"
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      ]
    }
  ],
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{
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  "source": [
    "#import load_model from keras.model\n",
    "from keras.models import load_model\n",
    "#import image class from keras\n",
```

```

"import tensorflow as tf\n",
"from tensorflow.keras.preprocessing import image\n",
"#import numpy\n",
"import numpy as np\n",
"#import cv2\n",
"import cv2"
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},
"execution_count": 36,
"outputs": []
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  "source": [
    "#load the saved model\n",
    "model = load_model(\"/content/drive/MyDrive/archive(1)/forest1.h5\")"
  ],
  "metadata": {
    "id": "lTQgwI0x4coy"
  },
  "execution_count": 37,
  "outputs": []
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{
  "cell_type": "code",
  "source": [
    "def predictImage(filename):\n",

```

```

" img1 = image.load_img(filename,target_size=(128,128))\n",
" Y = image.img_to_array(img1)\n",
" X = np.expand_dims(Y,axis=0)\n",
" val = model.predict(X)\n",
" print(val)\n",
" if val == 1:\n",
"     print(\" fire\")\n",
" elif val == 0:\n",
"     print(\"no fire\")"
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},
"execution_count": 38,
"outputs": []
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{
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    "source": [
        "predictImage(\"/content/drive/MyDrive/Dataset/test_set/with fire/19464620_401.jpg\")"
    ],
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        "colab": {
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        },
        "id": "YfvDp7BZ4n41",
        "outputId": "91a837a5-84f8-4c00-f195-bf7bf9d86c46"
    },
    "execution_count": 39,

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      "[[1.]]\n",  
      " fire\n"  
    ]  
  }  
],  
{  
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  "source": [  
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  ],  
  "metadata": {  
    "id": "04yUI690RnsG"  
  }  
},  
{  
  "cell_type": "code",  
  "source": [  
    "pip install twilio"  
  ],  
  "metadata": {  
    "colab": {  
      "base_uri": "https://localhost:8080/"
```

```
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    "text": [
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wheels/public/simple/\n",
      "Collecting twilio\n",
      "  Downloading twilio-7.15.2-py2.py3-none-any.whl (1.4 MB)\n",
      "\u001b[K | 1.4 MB 7.6 MB/s \n",
      "\u001b[?25hRequirement already satisfied: requests>=2.0.0 in /usr/local/lib/python3.7/dist-  
packages (from twilio) (2.23.0)\n",
      "Collecting PyJWT<3.0.0,>=2.0.0\n",
      "  Downloading PyJWT-2.6.0-py3-none-any.whl (20 kB)\n",
      "Requirement already satisfied: pytz in /usr/local/lib/python3.7/dist-packages (from twilio)  
(2022.6)\n",
      "Requirement already satisfied: urllib3!=1.25.0,!1.25.1,<1.26,>=1.21.1 in  
/usr/local/lib/python3.7/dist-packages (from requests>=2.0.0->twilio) (1.24.3)\n",
      "Requirement already satisfied: chardet<4,>=3.0.2 in /usr/local/lib/python3.7/dist-packages  
(from requests>=2.0.0->twilio) (3.0.4)\n",
      "Requirement already satisfied: idna<3,>=2.5 in /usr/local/lib/python3.7/dist-packages (from  
requests>=2.0.0->twilio) (2.10)\n",
      "Requirement already satisfied: certifi>=2017.4.17 in /usr/local/lib/python3.7/dist-packages  
(from requests>=2.0.0->twilio) (2022.9.24)\n",
      "Installing collected packages: PyJWT, twilio\n",
      "Successfully installed PyJWT-2.6.0 twilio-7.15.2\n"
```

```

    ]
  }
]
},
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  "source": [
    "pip install playsound"
  ],
  "metadata": {
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    },
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    "outputId": "c20aca5f-365e-488f-af11-29ddfd916f5c"
  },
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      "name": "stdout",
      "text": [
        "Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/public/simple/\n",
        "Collecting playsound\n",
        "  Downloading playsound-1.3.0.tar.gz (7.7 kB)\n",
        "Building wheels for collected packages: playsound\n",
        "  Building wheel for playsound (setup.py) ... \u001b[?25l\u001b[?25hdone\n",

```

```

    " Created wheel for playsound: filename=playsound-1.3.0-py3-none-any.whl size=7035
sha256=81d5eaff42a76c8c818cc053e8955fc8ef345b03824112ae2c4da8cb45109e4d\n",

    " Stored in directory:
/root/.cache/pip/wheels/ba/f8/bb/ea57c0146b664dca3a0ada4199b0ecb5f9dfcb7b7e22b65ba2\n",

    "Successfully built playsound\n",

    "Installing collected packages: playsound\n",

    "Successfully installed playsound-1.3.0\n"

]
}
]
},
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    "#import opencv librariy\n",
    "import cv2\n",
    "#import numpy\n",
    "import numpy as np\n",
    "#import image function from keras\n",
    "from keras.preprocessing import image\n",
    "#import load_model from keras\n",
    "from keras.models import load_model\n",
    "#import client from twilio API\n",
    "from twilio.rest import Client\n",
    "#imort playsound package\n",
    "from playsound import playsound"
  ],
  "metadata": {
    "colab": {

```

```

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  "outputId": "Odd94c52-9292-4f6e-dbee-f42f3d06891c"
},
"execution_count": 42,
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    "name": "stderr",
    "text": [
      "WARNING:playsound:playsound is relying on another python subprocess. Please use `pip install\npygobject` if you want playsound to run more efficiently.\n"
    ]
  }
],
{
  "cell_type": "code",
  "source": [
    "#load the saved model\n",
    "model = load_model(r'/content/drive/MyDrive/archive(1)/forest1.h5')\n",
    "#define video\n",
    "video = cv2.VideoCapture('/content/Fighting Fire with Fire _ Explained in 30 Seconds.mp4')\n",
    "#define the features\n",
    "name = ['forest','with forest']"
  ],
  "metadata": {
    "id": "RSpgSxcqRzlq"
  }
}

```



```

},
"execution_count": 44,
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  ],
  "metadata": {
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  }
},
{
  "cell_type": "code",
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    "account_sid='ACfb4e6d0e7b0d25def63044919f1b96e3'\n",
    "auth_token='f9ae4fc4a617a527da8672e97eefb2d8'\n",
    "client=Client(account_sid,auth_token)\n",
    "message=client.messages \\\n",
    ".create(\n",
    "    body='Forest Fire is detected, stay alert',\n",
    "    from_='+1 302 248 4366',\n",
    "    to='+91 99400 12164'\n",
    ")\n",
    "print(message.sid)"
  ],
  "metadata": {
    "colab": {

```

```
    "base_uri": "https://localhost:8080/"
  },
  "id": "0_xBHZr61Dq4",
  "outputId": "82acf279-f65b-4bc0-b79b-d1721c268441"
},
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    ]
  }
],
{
  "cell_type": "markdown",
  "source": [
    "***Sending Alert Message***"
  ],
  "metadata": {
    "id": "eepAGIEy8SVj"
  }
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{
  "cell_type": "code",
  "source": [
    "pip install pygobject"
```

```

],
"metadata": {
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  "outputId": "24ce8006-be45-431f-a769-c7a1e3e58103"
},
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    "name": "stdout",
    "text": [
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      "Requirement already satisfied: pygobject in /usr/lib/python3/dist-packages (3.26.1)\n"
    ]
  }
],
{
  "cell_type": "code",
  "source": [
    "def message(val):\n",
    "    if val==1:\n",
    "        from twilio.rest import Client\n",
    "        print('Forest fire')\n",
    "        account_sid='ACfb4e6d0e7b0d25def63044919f1b96e3'\n",

```

```

"    auth_token='f9ae4fc4a617a527da8672e97eefb2d8'\n",
"    client=Client(account_sid,auth_token)\n",
"    message=client.messages \\\n",
"    .create(\n",
"        body='forest fire is detected, stay alert',\n",
"        #use twilio free number\n",
"        from_='+1 302 248 4366',\n",
"        #to number\n",
"        to='+91 99400 12164')\n",
"    print(message.sid)\n",
"    print(\"Fire detected\")\n",
"    print(\"SMS Sent!\")\n",
"    elif val==0:\n",
"        print('No Fire')
],
"metadata": {
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        "#import load model from keras.model\n",
        "from keras.models import load_model\n",
        "#import image from keras\n",
        "from tensorflow.keras.preprocessing import image\n",

```

```
"img1 = image.load_img('/content/drive/MyDrive/Dataset/test_set/with  
fire/Wild_fires.jpg',target_size=(128,128))\n",
```

```
"Y = image.img_to_array(img1)\n",
```

```
"x = np.expand_dims(Y,axis=0)\n",
```

```
"val = model.predict(x)\n",
```

```
"plt.imshow(img1)\n",
```

```
"plt.show()\n",
```

```
"message(val)"
```

```
],
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]
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"<Figure size 432x288 with 1 Axes>"

],

"image/png":

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