

PNT2022TMID52343

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]

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"!pip install opencv-python\n",

"!pip install opencv-contrib-python\n",

"import tensorflow as tf\n",

"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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    "                           zoom_range=0.2,\n",
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        batch_size = 32,\\n\",
    \"
        class_mode = 'binary' )\"
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        "from keras.models import Sequential\n",

        "#to add layer import Dense\n",

        "from keras.layers import Dense\n",

        "#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",

        "from keras.layers import Flatten\n",

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        "14/14 [=====] - 33s 2s/step - loss: 0.5697 - accuracy: 0.7018 -
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",  
  "14/14 [=====] - 30s 2s/step - loss: 0.2088 - accuracy: 0.9060 -  
val_loss: 0.0464 - val_accuracy: 0.9917\n",  
  "Epoch 4/5\n",  
  "14/14 [=====] - 34s 2s/step - loss: 0.1883 - accuracy: 0.9128 -  
val_loss: 0.0730 - val_accuracy: 0.9669\n",  
  "Epoch 5/5\n",  
  "14/14 [=====] - 30s 2s/step - loss: 0.1682 - accuracy: 0.9220 -  
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"    [1.],\n",  
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"    [1.], dtype=float32)"  
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  }  
],  
},  
{  
  "cell_type": "code",  
  "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,
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  "source": [
    "#load the saved model\n",
    "model = load_model(\"/content/drive/MyDrive/archive(1)/forest1.h5\")"
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  "metadata": {
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  "execution_count": 37,

```

```

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    "    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,
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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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  "outputId": "91a837a5-84f8-4c00-f195-bf7bf9d86c46"
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"execution_count": 39,
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      "[[1.]]\n",
      " fire\n"
    ]
  }
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```

```

    "**OpenCV For Video Processing**"

],

"metadata": {

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},

{

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        "pip install twilio"

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    },

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            "text": [

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```

```
"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"  
  
],
```



```
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      "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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  "cell_type": "code",
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    "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",
    "#import playsound package\n",
    "from playsound import playsound"
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```

```

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pygobject` 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']"
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```

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  }
},
{
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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)"
  ]
}
```

```
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    ]
  }
],
},
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  "source": [
    "***Sending Alert Message***"
  ],
},
"metadata": {
```

```
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        "Requirement already satisfied: pygobject in /usr/lib/python3/dist-packages (3.26.1)\n"
      ]
    }
  ]
}
```

```

]
},
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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\nfire/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(img)\n",
    "plt.show()\n",
    "if val==1:\n",
    " print('Forest fire')
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```

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```



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}

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  "text": [

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  ]

}

]

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    "    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')
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"outputId": "ecd60484-af50-42a9-d625-b1cc5e86fe00"
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    "output_type": "stream",
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      "SMecc097520dc517b33e614c710d406781\n",
      "Fire detected\n",
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    ]
  }
]
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