

SPRINT 4

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    "> *Define parameters for ImageDataGenerator Class*\n",
    "\n",
    "> *Applying ImageDataGenerator Functionality to Trainset and Testset*\n",
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            "from keras.models import Sequential, load_model\n",
            "from keras.preprocessing.image import ImageDataGenerator\n",
            "from keras.callbacks import ModelCheckpoint, EarlyStopping, TensorBoard\n",
            "from keras.callbacks import ReduceLROnPlateau\n",
            "from keras.layers import Conv2D, Dropout, Dense, Flatten, MaxPooling2D,\nSeparableConv2D, Activation, BatchNormalization\n",
            "import matplotlib.pyplot as plt\n",
            "import time\n",
            "import os\n",
            "import tensorflow as tf"
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    "                                horizontal_flip=True)\n",
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```

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    "> *Initializing the Model*\n",
    "\n",
    "> *Adding CNN Layers*\n",
    "\n",
    "> *Adding Dense Layers*\n",
    "\n",
    "> *Configuring the Learning Process*\n",
    "\n",
```

```
"> *Training the Model*\n",  
"\n",  
"> *Save the Model*\n",  
"\n",  
"> *Test The Model*\n",  
"\n",  
">*Predictions*\n",  
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        "from tensorflow.keras.layers import Convolution2D\n",
        "from tensorflow.keras.layers import MaxPooling2D\n",
        "from tensorflow.keras.layers import Flatten\n",
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        "_____\\n",
        " Layer (type)          Output Shape          Param #   \\n",
        "=====\\n",
        " conv2d_1 (Conv2D)      (None, 126, 126, 32)   896       \\n",
        "                        \\n",

```

```

    " max_pooling2d_1 (MaxPooling (None, 63, 63, 32)    0    \n",
    " 2D)                                \n",
    "                                \n",
    " flatten_1 (Flatten)    (None, 127008)    0    \n",
    "                                \n",

"===== \n",
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    " _____ \n"
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```
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    "Epoch 2/10\n",
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    "Epoch 8/10\n",
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    "Epoch 9/10\n",
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accuracy: 0.9340 - val_loss: 0.3360 - val_accuracy: 0.8906\n"
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"plt.legend()"
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"metadata": {},

"execution_count": 159

}

]

},

{

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"metadata": {  
  "id": "dzLB2wcUhj8H"  
},  
"execution_count": 160,  
"outputs": []  
},  
{  
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  "source": [  
    "x"  
  ],  
  "metadata": {  
    "colab": {  
      "base_uri": "https://localhost:8080/"  
    },  
    "id": "0cVeELrChlpa",  
    "outputId": "614b01d5-d548-4b9d-a6ff-afda898cfb62"  
  },  
  "execution_count": 161,  
  "outputs": [  
    {  
      "output_type": "execute_result",  
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" [150., 81., 48.],\n",
" [138., 73., 43.],\n",
" ..., \n",
" [70., 42., 30.],\n",
" [78., 44., 32.],\n",
" [77., 43., 31.]],\n",
"\n",
" [[153., 80., 45.],\n",
" [147., 77., 43.],\n",
" [152., 86., 54.],\n",
" ..., \n",
" [70., 42., 30.],\n",
" [81., 47., 35.],\n",
" [82., 48., 36.]],\n",
"\n",
" [[154., 80., 45.],\n",
" [156., 83., 48.],\n",
" [157., 89., 54.],\n",
" ..., \n",
" [75., 47., 35.],\n",
" [81., 47., 35.],\n",
" [83., 49., 37.]],\n",
"\n",
" ..., \n",
"\n",
" [[232., 105., 38.],\n",
" [230., 99., 31.],\n",
" [238., 104., 31.],\n",

```

"    ...,\\n",
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"    [ 68., 53., 50.],\\n",
"    [ 68., 52., 52.]],\\n",
"\\n",
"    [[247., 107., 45.],\\n",
"    [252., 113., 48.],\\n",
"    [252., 113., 44.],\\n",
"    ...,\\n",
"    [ 90., 75., 72.],\\n",
"    [ 63., 48., 45.],\\n",
"    [ 65., 49., 49.]],\\n",
"\\n",
"    [[250., 104., 45.],\\n",
"    [249., 107., 45.],\\n",
"    [251., 112., 43.],\\n",
"    ...,\\n",
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"execution_count": 161
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{

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"source": [
  "x=np.expand_dims(x,axis=0)"
],
"metadata": {
  "id": "hb0Hc9pIhs_d"
},
"execution_count": 162,
"outputs": []
},
{
  "cell_type": "code",
"source": [
  "x"
],
"metadata": {
  "colab": {
    "base_uri": "https://localhost:8080/"
  },
  "id": "8QniEta5hvqX",
  "outputId": "136beb0c-bfb7-4609-e93b-d2b0e4568c56"
},
"execution_count": 163,
"outputs": [
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    "output_type": "execute_result",
    "data": {
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"      [150., 81., 48.],\n",  
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"\n",  
"      [[153., 80., 45.],\n",  
"      [147., 77., 43.],\n",  
"      [152., 86., 54.],\n",  
"      ..., \n",  
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"      [ 81., 47., 35.],\n",  
"      [ 82., 48., 36.]],\n",  
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"      [ 83., 49., 37.]],\n",  
"\n",  
"      ..., \n",  
"\n",  
"      [[232., 105., 38.],\n",  
"      [230., 99., 31.],
```

```

"    [238., 104., 31.],\n",
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"    [ 68., 53., 50.],\n",
"    [ 68., 52., 52.]],\n",
"\n",
"    [[247., 107., 45.],\n",
"    [252., 113., 48.],\n",
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"    ..., \n",
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"    [ 63., 48., 45.],\n",
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"    [[250., 104., 45.],\n",
"    [249., 107., 45.],\n",
"    [251., 112., 43.],\n",
"    ..., \n",
"    [ 75., 60., 57.],\n",
"    [ 79., 64., 61.],\n",
"    [ 79., 63., 63.]]], dtype=float32)"
]
},
"metadata": { },
"execution_count": 163
}
]
},

```



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  "source": [
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    "y"
  ],
  "metadata": {
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    },
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  "execution_count": 164,
  "outputs": [
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      "name": "stdout",
      "text": [
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      ]
    },
    {
      "output_type": "execute_result",
      "data": {
        "text/plain": [
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      }
    }
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}
```

```

    },
    "metadata": {},
    "execution_count": 164
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]
},
{
  "cell_type": "code",
  "source": [
    "x_train.class_indices"
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  "metadata": {
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    "outputId": "190174e3-8642-4bef-fcf5-54ede962bf53"
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        "text/plain": [
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        ]
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      "metadata": {},
    }
  ]
}

```

```
      "execution_count": 165
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  "execution_count": 166,
  "outputs": []
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  "cell_type": "code",
  "source": [
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  ],
  "metadata": {
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      "height": 36
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  },
}
```

```
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    "data": {
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      "application/vnd.google.colaboratory.intrinsic+json": {
        "type": "string"
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    },
    "metadata": {},
    "execution_count": 167
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},
{
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    "x=image.img_to_array(img)\n",
    "x=np.expand_dims(x,axis=0)\n",
    "index=['fire','nofire']\n",
    "print('Fire')\n",
    "img"
  ],
  "metadata": {
```

```
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    "text": [
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    ]
  },
  {
    "output_type": "execute_result",
    "data": {
      "text/plain": [
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      ]
    },
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9.Predictions

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" img1=image.load_img(filename,target_size=(128,128))\n",
" plt.imshow(img1)\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==0:\n",
"     plt.xlabel(\" No Fire\",fontsize=30)\n",
" elif val==1:\n",
"     plt.xlabel(\"Fire\",fontsize=30)\n",
" "

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