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        "config.gpu_options.per_process_gpu_memory_fraction = 0.5\n",
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    "from tensorflow.keras.models import Model\n",
    "from tensorflow.keras.applications.inception_v3 import InceptionV3\n",
    "#from keras.applications.vgg16 import VGG16\n",
    "from tensorflow.keras.applications.inception_v3 import
preprocess_input\n",
    "from tensorflow.keras.preprocessing import image\n",
    "from tensorflow.keras.preprocessing.image import
ImageDataGenerator, load_img\n",
    "from tensorflow.keras.models import Sequential\n",
    "import numpy as np\n",
    "from glob import glob\n",
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    "IMAGE_SIZE = [224, 224]\n",
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        "\n",
        "# Here we will be using imagenet weights\n",
        "\n",
        "inception = InceptionV3(input_shape=IMAGE_SIZE + [3],  
weights='imagenet', include_top=False)\n",
        "\n",
        "\n",
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        "for layer in inception.layers:\n",
        "    layer.trainable = False"
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      "\n# create a model object\n",
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      "\n",
      "\n# view the structure of the model\n",
      "model.summary()\n"
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_____\\n",			
input_1[0][0]	"conv2d (Conv2D)	(None, 111, 111, 32) 864	
_____\\n",			
conv2d[0][0]	"batch_normalization (BatchNorma	(None, 111, 111, 32) 96	
_____\\n",			
batch_normalization[0][0]	"activation (Activation)	(None, 111, 111, 32) 0	
_____\\n",			
activation[0][0]	"conv2d_1 (Conv2D)	(None, 109, 109, 32) 9216	
_____\\n",			
conv2d_1[0][0]	"batch_normalization_1 (BatchNor	(None, 109, 109, 32) 96	
_____\\n",			
batch_normalization_1[0][0]	"activation_1 (Activation)	(None, 109, 109, 32) 0	
_____\\n",			
activation_1[0][0]	"conv2d_2 (Conv2D)	(None, 109, 109, 64) 18432	
_____\\n",			
conv2d_2[0][0]	"batch_normalization_2 (BatchNor	(None, 109, 109, 64) 192	
_____\\n",			
batch_normalization_2[0][0]	"activation_2 (Activation)	(None, 109, 109, 64) 0	
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conv2d_4[0][0]	\n",		
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activation_8[0][0]	\n",		

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activation_9[0][0]      \n",

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activation_11[0][0]                  \n",
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activation_17[0][0]	"\n",		
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activation_20[0][0]	"conv2d_21 (Conv2D)	(None, 25, 25, 64)	76800
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activation_23[0][0]	"conv2d_24 (Conv2D)	(None, 25, 25, 96)	82944
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mixed2[0][0]      \n",
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activation_28[0][0]      \n",
"
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conv2d_26[0][0]      \n",
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"
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mixed2[0][0] \n",
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"mixed3 (Concatenate) (None, 12, 12, 768) 0
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activation_29[0][0] \n",
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mixed3[0][0] \n",
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mixed3[0][0] \n",
"
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"			
"batch_normalization_31 (BatchNo		(None, 12, 12, 128)	384
conv2d_31[0][0]	\n",		
"			
"batch_normalization_36 (BatchNo		(None, 12, 12, 128)	384
conv2d_36[0][0]	\n",		
"			
"activation_31 (Activation)		(None, 12, 12, 128)	0
batch_normalization_31[0][0]	\n",		
"			
"activation_36 (Activation)		(None, 12, 12, 128)	0
batch_normalization_36[0][0]	\n",		
"			
"conv2d_32 (Conv2D)		(None, 12, 12, 128)	114688
activation_31[0][0]	\n",		
"			
"conv2d_37 (Conv2D)		(None, 12, 12, 128)	114688
activation_36[0][0]	\n",		
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"batch_normalization_32 (BatchNo		(None, 12, 12, 128)	384
conv2d_32[0][0]	\n",		
"			
"batch_normalization_37 (BatchNo		(None, 12, 12, 128)	384
conv2d_37[0][0]	\n",		
"			
"activation_32 (Activation)		(None, 12, 12, 128)	0
batch_normalization_32[0][0]	\n",		
"			
"activation_37 (Activation)		(None, 12, 12, 128)	0
batch_normalization_37[0][0]	\n",		
"			
"average_pooling2d_3 (AveragePoo		(None, 12, 12, 768)	0
mixed3[0][0]	\n",		
"			
"conv2d_30 (Conv2D)		(None, 12, 12, 192)	147456
mixed3[0][0]	\n",		

```

"
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      "conv2d_33 (Conv2D)          (None, 12, 12, 192) 172032
activation_32[0][0]              \n",
"
_____\n",
      "conv2d_38 (Conv2D)          (None, 12, 12, 192) 172032
activation_37[0][0]              \n",
"
_____\n",
      "conv2d_39 (Conv2D)          (None, 12, 12, 192) 147456
average_pooling2d_3[0][0]       \n",
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_____\n",
      "batch_normalization_30 (BatchNo (None, 12, 12, 192) 576
conv2d_30[0][0]                  \n",
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_____\n",
      "batch_normalization_33 (BatchNo (None, 12, 12, 192) 576
conv2d_33[0][0]                  \n",
"
_____\n",
      "batch_normalization_38 (BatchNo (None, 12, 12, 192) 576
conv2d_38[0][0]                  \n",
"
_____\n",
      "batch_normalization_39 (BatchNo (None, 12, 12, 192) 576
conv2d_39[0][0]                  \n",
"
_____\n",
      "activation_30 (Activation)    (None, 12, 12, 192) 0
batch_normalization_30[0][0]     \n",
"
_____\n",
      "activation_33 (Activation)    (None, 12, 12, 192) 0
batch_normalization_33[0][0]     \n",
"
_____\n",
      "activation_38 (Activation)    (None, 12, 12, 192) 0
batch_normalization_38[0][0]     \n",
"
_____\n",
      "activation_39 (Activation)    (None, 12, 12, 192) 0
batch_normalization_39[0][0]     \n",
"
_____\n",
      "mixed4 (Concatenate)         (None, 12, 12, 768) 0
activation_30[0][0]              \n",
      "
activation_33[0][0]              \n",
      "
activation_38[0][0]              \n",
      "

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activation_39[0][0]          \n",
"
_____ \n",
      "conv2d_44 (Conv2D)          (None, 12, 12, 160) 122880
mixed4[0][0]                  \n",
"
_____ \n",
      "batch_normalization_44 (BatchNo (None, 12, 12, 160) 480
conv2d_44[0][0]                \n",
"
_____ \n",
      "activation_44 (Activation)      (None, 12, 12, 160) 0
batch_normalization_44[0][0]    \n",
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_____ \n",
      "conv2d_45 (Conv2D)          (None, 12, 12, 160) 179200
activation_44[0][0]              \n",
"
_____ \n",
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conv2d_45[0][0]                \n",
"
_____ \n",
      "activation_45 (Activation)      (None, 12, 12, 160) 0
batch_normalization_45[0][0]    \n",
"
_____ \n",
      "conv2d_41 (Conv2D)          (None, 12, 12, 160) 122880
mixed4[0][0]                    \n",
"
_____ \n",
      "conv2d_46 (Conv2D)          (None, 12, 12, 160) 179200
activation_45[0][0]              \n",
"
_____ \n",
      "batch_normalization_41 (BatchNo (None, 12, 12, 160) 480
conv2d_41[0][0]                \n",
"
_____ \n",
      "batch_normalization_46 (BatchNo (None, 12, 12, 160) 480
conv2d_46[0][0]                \n",
"
_____ \n",
      "activation_41 (Activation)      (None, 12, 12, 160) 0
batch_normalization_41[0][0]    \n",
"
_____ \n",
      "activation_46 (Activation)      (None, 12, 12, 160) 0
batch_normalization_46[0][0]    \n",
"
_____ \n",

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"conv2d_42 (Conv2D)          (None, 12, 12, 160) 179200
activation_41[0][0]          \n",
"
_____\n",
"conv2d_47 (Conv2D)          (None, 12, 12, 160) 179200
activation_46[0][0]          \n",
"
_____\n",
"batch_normalization_42 (BatchNo (None, 12, 12, 160) 480
conv2d_42[0][0]              \n",
"
_____\n",
"batch_normalization_47 (BatchNo (None, 12, 12, 160) 480
conv2d_47[0][0]              \n",
"
_____\n",
"activation_42 (Activation)    (None, 12, 12, 160) 0
batch_normalization_42[0][0]  \n",
"
_____\n",
"activation_47 (Activation)    (None, 12, 12, 160) 0
batch_normalization_47[0][0]  \n",
"
_____\n",
"average_pooling2d_4 (AveragePoo (None, 12, 12, 768) 0
mixed4[0][0]                  \n",
"
_____\n",
"conv2d_40 (Conv2D)          (None, 12, 12, 192) 147456
mixed4[0][0]                  \n",
"
_____\n",
"conv2d_43 (Conv2D)          (None, 12, 12, 192) 215040
activation_42[0][0]          \n",
"
_____\n",
"conv2d_48 (Conv2D)          (None, 12, 12, 192) 215040
activation_47[0][0]          \n",
"
_____\n",
"conv2d_49 (Conv2D)          (None, 12, 12, 192) 147456
average_pooling2d_4[0][0]    \n",
"
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"batch_normalization_40 (BatchNo (None, 12, 12, 192) 576
conv2d_40[0][0]              \n",
"
_____\n",
"batch_normalization_43 (BatchNo (None, 12, 12, 192) 576
conv2d_43[0][0]              \n",
"
_____\n",

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_____\n",
      "batch_normalization_48 (BatchNo (None, 12, 12, 192) 576
conv2d_48[0][0]          \n",
"
_____\n",
      "batch_normalization_49 (BatchNo (None, 12, 12, 192) 576
conv2d_49[0][0]          \n",
"
_____\n",
      "activation_40 (Activation)      (None, 12, 12, 192) 0
batch_normalization_40[0][0] \n",
"
_____\n",
      "activation_43 (Activation)      (None, 12, 12, 192) 0
batch_normalization_43[0][0] \n",
"
_____\n",
      "activation_48 (Activation)      (None, 12, 12, 192) 0
batch_normalization_48[0][0] \n",
"
_____\n",
      "activation_49 (Activation)      (None, 12, 12, 192) 0
batch_normalization_49[0][0] \n",
"
_____\n",
      "mixed5 (Concatenate)            (None, 12, 12, 768) 0
activation_40[0][0]          \n",
      "
activation_43[0][0]          \n",
      "
activation_48[0][0]          \n",
      "
activation_49[0][0]          \n",
"
_____\n",
      "conv2d_54 (Conv2D)                (None, 12, 12, 160) 122880
mixed5[0][0]                \n",
"
_____\n",
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conv2d_54[0][0]          \n",
"
_____\n",
      "activation_54 (Activation)      (None, 12, 12, 160) 0
batch_normalization_54[0][0] \n",
"
_____\n",
      "conv2d_55 (Conv2D)                (None, 12, 12, 160) 179200
activation_54[0][0]          \n",
"
_____\n",
      "batch_normalization_55 (BatchNo (None, 12, 12, 160) 480
conv2d_55[0][0]          \n",

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"			
_____ \n",			
batch_normalization_55[0][0]	"activation_55 (Activation)	(None, 12, 12, 160)	0
_____ \n",			
"			
_____ \n",			
mixed5[0][0]	"conv2d_51 (Conv2D)	(None, 12, 12, 160)	122880
_____ \n",			
"			
_____ \n",			
activation_55[0][0]	"conv2d_56 (Conv2D)	(None, 12, 12, 160)	179200
_____ \n",			
"			
_____ \n",			
conv2d_51[0][0]	"batch_normalization_51 (BatchNo	(None, 12, 12, 160)	480
_____ \n",			
"			
_____ \n",			
conv2d_56[0][0]	"batch_normalization_56 (BatchNo	(None, 12, 12, 160)	480
_____ \n",			
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_____ \n",			
batch_normalization_51[0][0]	"activation_51 (Activation)	(None, 12, 12, 160)	0
_____ \n",			
"			
_____ \n",			
batch_normalization_56[0][0]	"activation_56 (Activation)	(None, 12, 12, 160)	0
_____ \n",			
"			
_____ \n",			
activation_51[0][0]	"conv2d_52 (Conv2D)	(None, 12, 12, 160)	179200
_____ \n",			
"			
_____ \n",			
activation_56[0][0]	"conv2d_57 (Conv2D)	(None, 12, 12, 160)	179200
_____ \n",			
"			
_____ \n",			
conv2d_52[0][0]	"batch_normalization_52 (BatchNo	(None, 12, 12, 160)	480
_____ \n",			
"			
_____ \n",			
conv2d_57[0][0]	"batch_normalization_57 (BatchNo	(None, 12, 12, 160)	480
_____ \n",			
"			
_____ \n",			
batch_normalization_52[0][0]	"activation_52 (Activation)	(None, 12, 12, 160)	0
_____ \n",			
"			
_____ \n",			
	"activation_57 (Activation)	(None, 12, 12, 160)	0

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batch_normalization_57[0][0]      \n",
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_____ \n",
"average_pooling2d_5 (AveragePoo (None, 12, 12, 768)  0
mixed5[0][0]                        \n",
"
_____ \n",
"conv2d_50 (Conv2D)                (None, 12, 12, 192)  147456
mixed5[0][0]                        \n",
"
_____ \n",
"conv2d_53 (Conv2D)                (None, 12, 12, 192)  215040
activation_52[0][0]                \n",
"
_____ \n",
"conv2d_58 (Conv2D)                (None, 12, 12, 192)  215040
activation_57[0][0]                \n",
"
_____ \n",
"conv2d_59 (Conv2D)                (None, 12, 12, 192)  147456
average_pooling2d_5[0][0]          \n",
"
_____ \n",
"batch_normalization_50 (BatchNo (None, 12, 12, 192)  576
conv2d_50[0][0]                    \n",
"
_____ \n",
"batch_normalization_53 (BatchNo (None, 12, 12, 192)  576
conv2d_53[0][0]                    \n",
"
_____ \n",
"batch_normalization_58 (BatchNo (None, 12, 12, 192)  576
conv2d_58[0][0]                    \n",
"
_____ \n",
"batch_normalization_59 (BatchNo (None, 12, 12, 192)  576
conv2d_59[0][0]                    \n",
"
_____ \n",
"activation_50 (Activation)         (None, 12, 12, 192)  0
batch_normalization_50[0][0]       \n",
"
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"activation_53 (Activation)         (None, 12, 12, 192)  0
batch_normalization_53[0][0]       \n",
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"activation_58 (Activation)         (None, 12, 12, 192)  0
batch_normalization_58[0][0]       \n",
"
_____ \n",

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"activation_59 (Activation)      (None, 12, 12, 192)  0
batch_normalization_59[0][0]    \n",
"
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"mixed6 (Concatenate)          (None, 12, 12, 768)  0
activation_50[0][0]             \n",
"
activation_53[0][0]             \n",
"
activation_58[0][0]             \n",
"
activation_59[0][0]             \n",
"
_____\n",
"conv2d_64 (Conv2D)            (None, 12, 12, 192)  147456
mixed6[0][0]                    \n",
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"batch_normalization_64 (BatchNo (None, 12, 12, 192)  576
conv2d_64[0][0]                 \n",
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"activation_64 (Activation)      (None, 12, 12, 192)  0
batch_normalization_64[0][0]    \n",
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"conv2d_65 (Conv2D)            (None, 12, 12, 192)  258048
activation_64[0][0]             \n",
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"batch_normalization_65 (BatchNo (None, 12, 12, 192)  576
conv2d_65[0][0]                 \n",
"
_____\n",
"activation_65 (Activation)      (None, 12, 12, 192)  0
batch_normalization_65[0][0]    \n",
"
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"conv2d_61 (Conv2D)            (None, 12, 12, 192)  147456
mixed6[0][0]                    \n",
"
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"conv2d_66 (Conv2D)            (None, 12, 12, 192)  258048
activation_65[0][0]             \n",
"
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"batch_normalization_61 (BatchNo (None, 12, 12, 192)  576
conv2d_61[0][0]                 \n",
"
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"batch_normalization_66 (BatchNo (None, 12, 12, 192)  576
conv2d_66[0][0]                 \n",

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"
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    "activation_61 (Activation)          (None, 12, 12, 192)  0
batch_normalization_61[0][0] \n",
"
    \n",
    "activation_66 (Activation)          (None, 12, 12, 192)  0
batch_normalization_66[0][0] \n",
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    \n",
    "conv2d_62 (Conv2D)                  (None, 12, 12, 192) 258048
activation_61[0][0] \n",
"
    \n",
    "conv2d_67 (Conv2D)                  (None, 12, 12, 192) 258048
activation_66[0][0] \n",
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    "batch_normalization_62 (BatchNo (None, 12, 12, 192) 576
conv2d_62[0][0] \n",
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    "batch_normalization_67 (BatchNo (None, 12, 12, 192) 576
conv2d_67[0][0] \n",
"
    \n",
    "activation_62 (Activation)          (None, 12, 12, 192)  0
batch_normalization_62[0][0] \n",
"
    \n",
    "activation_67 (Activation)          (None, 12, 12, 192)  0
batch_normalization_67[0][0] \n",
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    "average_pooling2d_6 (AveragePoo (None, 12, 12, 768)  0
mixed6[0][0] \n",
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    "conv2d_60 (Conv2D)                  (None, 12, 12, 192) 147456
mixed6[0][0] \n",
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    "conv2d_63 (Conv2D)                  (None, 12, 12, 192) 258048
activation_62[0][0] \n",
"
    \n",
    "conv2d_68 (Conv2D)                  (None, 12, 12, 192) 258048
activation_67[0][0] \n",
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    \n",
    "conv2d_69 (Conv2D)                  (None, 12, 12, 192) 147456
average_pooling2d_6[0][0] \n",

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"
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      "batch_normalization_60 (BatchNo (None, 12, 12, 192) 576
conv2d_60[0][0] \n",

"
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      "batch_normalization_63 (BatchNo (None, 12, 12, 192) 576
conv2d_63[0][0] \n",

"
_____
_____ \n",
      "batch_normalization_68 (BatchNo (None, 12, 12, 192) 576
conv2d_68[0][0] \n",

"
_____
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      "batch_normalization_69 (BatchNo (None, 12, 12, 192) 576
conv2d_69[0][0] \n",

"
_____
_____ \n",
      "activation_60 (Activation) (None, 12, 12, 192) 0
batch_normalization_60[0][0] \n",

"
_____
_____ \n",
      "activation_63 (Activation) (None, 12, 12, 192) 0
batch_normalization_63[0][0] \n",

"
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_____ \n",
      "activation_68 (Activation) (None, 12, 12, 192) 0
batch_normalization_68[0][0] \n",

"
_____
_____ \n",
      "activation_69 (Activation) (None, 12, 12, 192) 0
batch_normalization_69[0][0] \n",

"
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_____ \n",
      "mixed7 (Concatenate) (None, 12, 12, 768) 0
activation_60[0][0] \n",
      "
activation_63[0][0] \n",
      "
activation_68[0][0] \n",
      "
activation_69[0][0] \n",

"
_____
_____ \n",
      "conv2d_72 (Conv2D) (None, 12, 12, 192) 147456
mixed7[0][0] \n",

"
_____
_____ \n",
      "batch_normalization_72 (BatchNo (None, 12, 12, 192) 576
conv2d_72[0][0] \n",

"
_____
_____ \n",

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"activation_72 (Activation)      (None, 12, 12, 192)  0
batch_normalization_72[0][0]    \n",
"
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"conv2d_73 (Conv2D)             (None, 12, 12, 192)  258048
activation_72[0][0]             \n",
"
_____\n",
"batch_normalization_73 (BatchNo (None, 12, 12, 192)  576
conv2d_73[0][0]                 \n",
"
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"activation_73 (Activation)      (None, 12, 12, 192)  0
batch_normalization_73[0][0]    \n",
"
_____\n",
"conv2d_70 (Conv2D)             (None, 12, 12, 192)  147456
mixed7[0][0]                    \n",
"
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"conv2d_74 (Conv2D)             (None, 12, 12, 192)  258048
activation_73[0][0]             \n",
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_____\n",
"batch_normalization_70 (BatchNo (None, 12, 12, 192)  576
conv2d_70[0][0]                 \n",
"
_____\n",
"batch_normalization_74 (BatchNo (None, 12, 12, 192)  576
conv2d_74[0][0]                 \n",
"
_____\n",
"activation_70 (Activation)      (None, 12, 12, 192)  0
batch_normalization_70[0][0]    \n",
"
_____\n",
"activation_74 (Activation)      (None, 12, 12, 192)  0
batch_normalization_74[0][0]    \n",
"
_____\n",
"conv2d_71 (Conv2D)             (None, 5, 5, 320)    552960
activation_70[0][0]             \n",
"
_____\n",
"conv2d_75 (Conv2D)             (None, 5, 5, 192)    331776
activation_74[0][0]             \n",
"
_____\n",
"batch_normalization_71 (BatchNo (None, 5, 5, 320)    960
conv2d_71[0][0]                 \n",
"
_____\n",

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_____\n",
      "batch_normalization_75 (BatchNo (None, 5, 5, 192)      576
conv2d_75[0][0]      \n",
"
_____\n",
      "activation_71 (Activation)      (None, 5, 5, 320)      0
batch_normalization_71[0][0]      \n",
"
_____\n",
      "activation_75 (Activation)      (None, 5, 5, 192)      0
batch_normalization_75[0][0]      \n",
"
_____\n",
      "max_pooling2d_3 (MaxPooling2D) (None, 5, 5, 768)      0
mixed7[0][0]      \n",
"
_____\n",
      "mixed8 (Concatenate)      (None, 5, 5, 1280)      0
activation_71[0][0]      \n",
"
activation_75[0][0]      \n",
"
max_pooling2d_3[0][0]      \n",
"
_____\n",
      "conv2d_80 (Conv2D)      (None, 5, 5, 448)      573440
mixed8[0][0]      \n",
"
_____\n",
      "batch_normalization_80 (BatchNo (None, 5, 5, 448)      1344
conv2d_80[0][0]      \n",
"
_____\n",
      "activation_80 (Activation)      (None, 5, 5, 448)      0
batch_normalization_80[0][0]      \n",
"
_____\n",
      "conv2d_77 (Conv2D)      (None, 5, 5, 384)      491520
mixed8[0][0]      \n",
"
_____\n",
      "conv2d_81 (Conv2D)      (None, 5, 5, 384)      1548288
activation_80[0][0]      \n",
"
_____\n",
      "batch_normalization_77 (BatchNo (None, 5, 5, 384)      1152
conv2d_77[0][0]      \n",
"
_____\n",
      "batch_normalization_81 (BatchNo (None, 5, 5, 384)      1152
conv2d_81[0][0]      \n",
"
_____

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activation_77 (Activation)	(None, 5, 5, 384)	0
batch_normalization_77[0][0]		
activation_81 (Activation)	(None, 5, 5, 384)	0
batch_normalization_81[0][0]		
conv2d_78 (Conv2D)	(None, 5, 5, 384)	442368
activation_77[0][0]		
conv2d_79 (Conv2D)	(None, 5, 5, 384)	442368
activation_77[0][0]		
conv2d_82 (Conv2D)	(None, 5, 5, 384)	442368
activation_81[0][0]		
conv2d_83 (Conv2D)	(None, 5, 5, 384)	442368
activation_81[0][0]		
average_pooling2d_7 (AveragePool)	(None, 5, 5, 1280)	0
mixed8[0][0]		
conv2d_76 (Conv2D)	(None, 5, 5, 320)	409600
mixed8[0][0]		
batch_normalization_78 (Batch Normalization)	(None, 5, 5, 384)	1152
conv2d_78[0][0]		
batch_normalization_79 (Batch Normalization)	(None, 5, 5, 384)	1152
conv2d_79[0][0]		
batch_normalization_82 (Batch Normalization)	(None, 5, 5, 384)	1152
conv2d_82[0][0]		
batch_normalization_83 (Batch Normalization)	(None, 5, 5, 384)	1152
conv2d_83[0][0]		
conv2d_84 (Conv2D)	(None, 5, 5, 192)	245760
average_pooling2d_7[0][0]		

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"
_____
      \n",
      "batch_normalization_76 (BatchNo (None, 5, 5, 320)    960
conv2d_76[0][0]      \n",

"
_____
      \n",
      "activation_78 (Activation)      (None, 5, 5, 384)    0
batch_normalization_78[0][0]      \n",

"
_____
      \n",
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batch_normalization_79[0][0]      \n",

"
_____
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"
_____
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batch_normalization_83[0][0]      \n",

"
_____
      \n",
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conv2d_84[0][0]      \n",

"
_____
      \n",
      "activation_76 (Activation)      (None, 5, 5, 320)    0
batch_normalization_76[0][0]      \n",

"
_____
      \n",
      "mixed9_0 (Concatenate)      (None, 5, 5, 768)    0
activation_78[0][0]      \n",
"
activation_79[0][0]      \n",

"
_____
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"
activation_83[0][0]      \n",

"
_____
      \n",
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"
activation_84[0][0]      \n",

```

"	"conv2d_89 (Conv2D)	(None, 5, 5, 448)	917504
mixed9[0][0]	"		
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conv2d_89[0][0]	"		
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batch_normalization_89[0][0]	"		
"	"conv2d_86 (Conv2D)	(None, 5, 5, 384)	786432
mixed9[0][0]	"		
"	"conv2d_90 (Conv2D)	(None, 5, 5, 384)	154828
activation_89[0][0]	"		
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conv2d_86[0][0]	"		
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conv2d_90[0][0]	"		
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batch_normalization_86[0][0]	"		
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batch_normalization_90[0][0]	"		
"	"conv2d_87 (Conv2D)	(None, 5, 5, 384)	442368
activation_86[0][0]	"		
"	"conv2d_88 (Conv2D)	(None, 5, 5, 384)	442368
activation_86[0][0]	"		
"	"conv2d_91 (Conv2D)	(None, 5, 5, 384)	442368
activation_90[0][0]	"		
"	"conv2d_92 (Conv2D)	(None, 5, 5, 384)	442368

```

activation_90[0][0]          \n",
"
_____ \n",
"average_pooling2d_8 (AveragePool (None, 5, 5, 2048)    0
mixed9[0][0]                \n",
"
_____ \n",
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mixed9[0][0]                \n",
"
_____ \n",
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conv2d_87[0][0]            \n",
"
_____ \n",
"batch_normalization_88 (BatchNormal (None, 5, 5, 384)    1152
conv2d_88[0][0]            \n",
"
_____ \n",
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conv2d_91[0][0]            \n",
"
_____ \n",
"batch_normalization_92 (BatchNormal (None, 5, 5, 384)    1152
conv2d_92[0][0]            \n",
"
_____ \n",
"conv2d_93 (Conv2D)          (None, 5, 5, 192)    393216
average_pooling2d_8[0][0]  \n",
"
_____ \n",
"batch_normalization_85 (BatchNormal (None, 5, 5, 320)    960
conv2d_85[0][0]            \n",
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_____ \n",
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batch_normalization_87[0][0] \n",
"
_____ \n",
"activation_88 (Activation)   (None, 5, 5, 384)    0
batch_normalization_88[0][0] \n",
"
_____ \n",
"activation_91 (Activation)   (None, 5, 5, 384)    0
batch_normalization_91[0][0] \n",
"
_____ \n",
"activation_92 (Activation)   (None, 5, 5, 384)    0
batch_normalization_92[0][0] \n",
"
_____ \n",

```

```

conv2d_93[0][0]      "batch_normalization_93 (BatchNo (None, 5, 5, 192)    576
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"
                    \n",
                    "activation_85 (Activation)          (None, 5, 5, 320)    0
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                    \n",
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activation_87[0][0]      \n",
"
activation_88[0][0]      \n",
"
                    \n",
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activation_91[0][0]      \n",
"
activation_92[0][0]      \n",
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                    \n",
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                    \n",
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activation_85[0][0]      \n",
"
mixed9_1[0][0]          \n",
"
concatenate_1[0][0]      \n",
"
activation_93[0][0]      \n",
"
                    \n",
                    "flatten (Flatten)          (None, 51200)        0
mixed10[0][0]          \n",
"
                    \n",
                    "dense (Dense)          (None, 4)            204804
flatten[0][0]          \n",
"=====
=====
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```

```

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        "    optimizer='adam',\n",
        "    metrics=['accuracy']\n",
        ")\n"
    ],
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        "from tensorflow.keras.preprocessing.image import ImageDataGenerator\n",
        "\n",
        "train_datagen = ImageDataGenerator(rescale = 1./255,\n",
        "                                   shear_range = 0.2,\n",
        "                                   zoom_range = 0.2,\n",
        "                                   horizontal_flip = True)\n",
        "\n",
        "test_datagen = ImageDataGenerator(rescale = 1./255)"
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```

```

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        batch_size = 32,\n",
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```



```

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    "    validation_data=test_set,\n",
    "    epochs=10,\n",
    "    steps_per_epoch=len(training_set),\n",
    "    validation_steps=len(test_set)\n",
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```

```

"/usr/local/lib/python3.7/dist-packages/keras/engine/training.py:1972:
UserWarning: `Model.fit_generator` is deprecated and will be removed in a future
version. Please use `Model.fit`, which supports generators.\n",
    warnings.warn("`Model.fit_generator` is deprecated and '\n"

```

```

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0.6459 - accuracy: 0.9453 - val_loss: 0.0069 - val_accuracy: 0.9988\n",
        "Epoch 2/10\n",
        "213/213 [=====] - 107s 504ms/step - loss:
0.0047 - accuracy: 0.9981 - val_loss: 3.9689e-04 - val_accuracy: 1.0000\n",
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        "213/213 [=====] - 106s 499ms/step - loss:
0.0970 - accuracy: 0.9855 - val_loss: 0.0333 - val_accuracy: 0.9951\n",
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0.0529 - accuracy: 0.9929 - val_loss: 0.0096 - val_accuracy: 0.9988\n",
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        "213/213 [=====] - 105s 494ms/step - loss:
0.0110 - accuracy: 0.9975 - val_loss: 0.0273 - val_accuracy: 0.9951\n",
        "Epoch 6/10\n",
        "213/213 [=====] - 107s 502ms/step - loss:
0.0255 - accuracy: 0.9972 - val_loss: 2.9895e-05 - val_accuracy: 1.0000\n",
        "Epoch 7/10\n",
        "213/213 [=====] - 109s 513ms/step - loss:
0.0317 - accuracy: 0.9957 - val_loss: 0.0723 - val_accuracy: 0.9550\n",
        "Epoch 8/10\n",
        "213/213 [=====] - 109s 513ms/step - loss:
0.0084 - accuracy: 0.9985 - val_loss: 7.4886e-05 - val_accuracy: 1.0000\n",
        "Epoch 9/10\n",
        "213/213 [=====] - 109s 511ms/step - loss:
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        "Epoch 10/10\n",
        "213/213 [=====] - 109s 511ms/step - loss:
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```

```

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    "plt.show()\n",
    "plt.savefig('LossVal_loss')\n",
    "\n",
    "# plot the accuracy\n",
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    "plt.plot(r.history['val_accuracy'], label='val acc')\n",
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```

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    "def pred(img_path): \n",
    "    img = load_img(img_path, target_size = (224,224)) #Load the image
and set the target size to the size of input of our model\n",
    "    x = img_to_array(img) #Convert the image to array\n",
    "    x = np.expand_dims(x,axis=0) #Convert the array to the form
(1,x,y,z) \n",
    "    x = preprocess_input(x) # Use the preprocess input function o
subtract the mean of all the images\n",
    "    p = np.argmax(model.predict(x)) # Store the argmax of the
predictions\n",
    "    if p==0:      # P=0 for basal,P=1 for melanoma , P=2 for squamous\
n",
    "        print(\"Sorry!! You've entered Irrelevant Data\")\n",
    "    elif p==1:\n",
    "        print(\"Moderate Pollution\")\n",
    "    elif p==2:\n",
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