Lets import all the necessary libraries

In [0]:

```python
from google.colab import drive
drive.mount('/content/drive')
```

Drive already mounted at /content/drive; to attempt to forcibly remount, c
all drive.mount("/content/drive", force_remount=True).

In [0]:

```python
import keras
import numpy as np
import matplotlib.pyplot as plt
import os, shutil, random, cv2
import glob, pylab, pandas as pd
from keras.models import Model
import  keras.optimizers as optimizers
from keras.preprocessing.image import ImageDataGenerator
from keras.layers import Input, Dense, Dropout,Flatten, AveragePooling2D, GlobalAverage
Pooling2D, Concatenate

from keras.layers.normalization import BatchNormalization
from keras.layers.convolutional import Convolution2D, MaxPooling2D
from keras.utils import plot_model

from sklearn.metrics import classification_report
from sklearn.metrics import confusion_matrix
import matplotlib.patches as patches
keras.__version__
```

Out[0]:

```
'2.3.1'
```

Download dataset from kaggle

In [0]:

```python
from google.colab import files
files.upload()
```

Choose Files | No file chosen

Upload widget is only available when the cell has been executed in the current browser session.
Please rerun this cell to enable.

Out[0]:

```
{}
```

In [0]:

```
! mkdir ~/.kaggle
! cp kaggle.json ~/.kaggle/
! chmod 600 ~/.kaggle/kaggle.json
```

In [0]:

```
!pip uninstall -y kaggle
!pip install --upgrade pip
!pip install kaggle==1.5.6
!kaggle -v
```

```
Uninstalling kaggle-1.5.6:
  Successfully uninstalled kaggle-1.5.6
Collecting pip
  Downloading https://files.pythonhosted.org/packages/54/2e/df11ea7e23e7e7
61d484ed3740285a34e38548cf2bad2bed3dd5768ec8b9/pip-20.1-py2.py3-none-any.w
hl (1.5MB)
     |████████████████████████████████| 1.5MB 8.9MB/s
Installing collected packages: pip
  Found existing installation: pip 19.3.1
    Uninstalling pip-19.3.1:
      Successfully uninstalled pip-19.3.1
Successfully installed pip-20.1
Collecting kaggle==1.5.6
  Downloading kaggle-1.5.6.tar.gz (58 kB)
     |████████████████████████████████| 58 kB 4.0 MB/s
Requirement already satisfied: urllib3<1.25,>=1.21.1 in /usr/local/lib/pyt
hon3.6/dist-packages (from kaggle==1.5.6) (1.24.3)
Requirement already satisfied: six>=1.10 in /usr/local/lib/python3.6/dist-
packages (from kaggle==1.5.6) (1.12.0)
Requirement already satisfied: certifi in /usr/local/lib/python3.6/dist-pa
ckages (from kaggle==1.5.6) (2020.4.5.1)
Requirement already satisfied: python-dateutil in /usr/local/lib/python3.
6/dist-packages (from kaggle==1.5.6) (2.8.1)
Requirement already satisfied: requests in /usr/local/lib/python3.6/dist-p
ackages (from kaggle==1.5.6) (2.23.0)
Requirement already satisfied: tqdm in /usr/local/lib/python3.6/dist-packa
ges (from kaggle==1.5.6) (4.38.0)
Requirement already satisfied: python-slugify in /usr/local/lib/python3.6/
dist-packages (from kaggle==1.5.6) (4.0.0)
Requirement already satisfied: chardet<4,>=3.0.2 in /usr/local/lib/python
3.6/dist-packages (from requests->kaggle==1.5.6) (3.0.4)
Requirement already satisfied: idna<3,>=2.5 in /usr/local/lib/python3.6/di
st-packages (from requests->kaggle==1.5.6) (2.9)
Requirement already satisfied: text-unidecode>=1.3 in /usr/local/lib/pytho
n3.6/dist-packages (from python-slugify->kaggle==1.5.6) (1.3)
Building wheels for collected packages: kaggle
  Building wheel for kaggle (setup.py) ... done
  Created wheel for kaggle: filename=kaggle-1.5.6-py3-none-any.whl size=72
859 sha256=56c01a4c1665f0e1e3bc114ccfc3285665295e083e74456412af0a765e57717
3
  Stored in directory: /root/.cache/pip/wheels/01/3e/ff/77407ebac3ef71a79b
9166a8382aecf88415a0bcbe3c095a01
Successfully built kaggle
Installing collected packages: kaggle
Successfully installed kaggle-1.5.6
Kaggle API 1.5.6
```

In [0]:

```
#lets download dataset
!kaggle competitions download -c rsna-pneumonia-detection-challenge
```

```
Downloading rsna-pneumonia-detection-challenge.zip to /content
100% 3.66G/3.66G [01:09<00:00, 44.0MB/s]
100% 3.66G/3.66G [01:09<00:00, 56.8MB/s]
```

```
#lets download dataset
!kaggle competitions download -c rsna-pneumonia-detection-challenge
```

In [0]:

```python
#lets unzip dataset
!unzip rsna-pneumonia-detection-challenge.zip
```

```
Streaming output truncated to the last 5000 lines.
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  inflating: stage_2_train_images/d525eafb-8908-45fd-a942-48d07c435487.dcm
  inflating: stage_2_train_images/d5265640-17db-4880-866d-d2952e32941c.dcm
  inflating: stage_2_train_images/d5277276-f8f8-40e9-b8e1-791cf5d96ac0.dcm
  inflating: stage_2_train_images/d528d9e9-647a-4e2e-a16c-bd5e32a5bbf5.dcm
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  inflating: stage_2_train_images/d52cbb5a-1d0a-457d-8c72-0f7aeec21ca7.dcm
  inflating: stage_2_train_images/d52ce67b-be7c-4349-8dc4-38562928d208.dcm
  inflating: stage_2_train_images/d535a3c8-c4a4-4856-b5cd-17f6332eac8b.dcm
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inflating: stage_2_train_images/ff7bd314-e7ee-4f20-9734-bd4350f091d1.dcm
inflating: stage_2_train_images/ff7e4f5e-9895-43c6-bb13-8a482c5a0c27.dcm
inflating: stage_2_train_images/ff7f3397-73b7-4601-9447-cb6261fcb51d.dcm
inflating: stage_2_train_images/ff7f99be-2021-4094-9cf4-1865061ce3a3.dcm
inflating: stage_2_train_images/ff82e39d-608f-4f9d-b4db-f8598544e754.dcm
inflating: stage_2_train_images/ff8563d5-cc01-4dce-87c6-bf12e748955c.dcm
```

```
inflating: stage_2_train_images/ff863e04-0cd1-4cc4-b68d-f403d05193c4.dcm
inflating: stage_2_train_images/ff87b50b-d50f-4e39-82bb-325d51927ff5.dcm
inflating: stage_2_train_images/ff8a0582-abc9-4753-bb71-a9746d466743.dcm
inflating: stage_2_train_images/ff8d7572-1183-45e4-a1bf-730f58bdb988.dcm
inflating: stage_2_train_images/ff8d9de6-d439-476d-a171-36c8d5825e41.dcm
inflating: stage_2_train_images/ff8dffe0-57bb-4b95-b425-38f8ef290339.dcm
inflating: stage_2_train_images/ff8f51eb-1269-49b7-8ddf-77dc2c05ffd4.dcm
inflating: stage_2_train_images/ff91fe68-b870-4efa-a0a8-3de999ef71a2.dcm
inflating: stage_2_train_images/ff939423-ded7-4887-907b-af5e68aa9aef.dcm
inflating: stage_2_train_images/ff955beb-6f41-4292-adf7-f224054c882f.dcm
inflating: stage_2_train_images/ff9c582d-938e-426b-8430-14183c3c1ded.dcm
inflating: stage_2_train_images/ff9d37d1-3660-4187-8f57-d31f9c91a3fd.dcm
inflating: stage_2_train_images/ff9d9177-ab50-4667-8193-9569ddf519e5.dcm
inflating: stage_2_train_images/ff9f1f48-402c-4a72-9ceb-d97c416726d6.dcm
inflating: stage_2_train_images/ffa141d4-00d8-4df5-86e0-b6f37dd8f3b1.dcm
inflating: stage_2_train_images/ffa31ac1-56ef-4f72-98e9-0128274b751f.dcm
inflating: stage_2_train_images/ffa3e9f1-6af8-481f-8523-b476e67edf69.dcm
inflating: stage_2_train_images/ffa424d2-6e6b-4eed-93ab-7551e8941215.dcm
inflating: stage_2_train_images/ffa54bb3-2fb6-4010-abbb-3f43a2b3d0ce.dcm
inflating: stage_2_train_images/ffabea71-fba0-49ff-a038-2b1dac9971b7.dcm
inflating: stage_2_train_images/ffad4160-d78e-4bcc-ab1f-47e20e613bd6.dcm
inflating: stage_2_train_images/ffaddbba-6aa4-4f12-ab24-b994567f01e6.dcm
inflating: stage_2_train_images/ffae40ab-fcfe-4311-a74a-89f605dba48b.dcm
inflating: stage_2_train_images/ffb0166b-771d-4463-8e38-20b67fa2d3b2.dcm
inflating: stage_2_train_images/ffb0a415-cd40-4c33-b806-cf533505f89e.dcm
inflating: stage_2_train_images/ffb8998b-f262-4330-820d-bf48a4d8fec1.dcm
inflating: stage_2_train_images/ffb9f122-b2f4-4531-8297-416fc0e47cda.dcm
inflating: stage_2_train_images/ffba6230-71cf-4287-a0d1-887f5d16e95d.dcm
inflating: stage_2_train_images/ffc01e64-ba14-4620-8016-235fc1609767.dcm
inflating: stage_2_train_images/ffc3fc59-f046-48b8-b7ad-3a9e07362d0c.dcm
inflating: stage_2_train_images/ffc9e552-ca53-43a8-a156-b0f97f0d40f3.dcm
inflating: stage_2_train_images/ffcc35e8-6fe8-42df-9605-9fedf57240d1.dcm
inflating: stage_2_train_images/ffcfe8c1-5641-4dc3-910c-573e3227f536.dcm
inflating: stage_2_train_images/ffd0c212-bfb6-41e3-b17b-b927b99d1730.dcm
inflating: stage_2_train_images/ffd2bc74-f9d6-49fb-84d7-de060ee22583.dcm
inflating: stage_2_train_images/ffd56560-6754-4a20-83c6-06ad5c4b30ab.dcm
inflating: stage_2_train_images/ffd670a5-b6dc-4f54-928a-69b7a04662eb.dcm
inflating: stage_2_train_images/ffd787b6-59ca-48cb-bd15-bcedd52cf37c.dcm
inflating: stage_2_train_images/ffdc771e-1f1a-47f7-b732-3e06e48c24e8.dcm
inflating: stage_2_train_images/ffdc8a6a-f513-4a04-9c1d-24840a779220.dcm
inflating: stage_2_train_images/ffdc957e-6239-427d-8a54-fdf8ced3a356.dcm
inflating: stage_2_train_images/ffde3879-241c-4b03-9d91-625cae6b49e8.dcm
inflating: stage_2_train_images/ffde3e7e-849c-4077-bfd0-4e4498ee8817.dcm
inflating: stage_2_train_images/ffe16061-b19f-4333-8a03-b41aab42b47d.dcm
inflating: stage_2_train_images/ffe4707d-517c-4ed0-8a9f-3ad149748991.dcm
inflating: stage_2_train_images/ffe9a1c4-634d-408f-9b0f-8098ffb78a4e.dcm
inflating: stage_2_train_images/ffe9ab5c-9d39-4235-9ade-d725dcad6b76.dcm
inflating: stage_2_train_images/ffeab8ae-f339-40d6-96f1-f1f8c97d2cb1.dcm
inflating: stage_2_train_images/ffee0360-20cf-4d4a-9af5-e5c9b493c73b.dcm
inflating: stage_2_train_images/fff0b503-72a5-446a-843d-f3d152e39053.dcm
inflating: stage_2_train_images/fff1cc9c-3895-43be-84e1-a7aaef21002b.dcm
inflating: stage_2_train_images/fff50447-821b-4b72-ae91-22b0679d6d3e.dcm
inflating: stage_2_train_images/fff7447f-99ce-4102-87f3-9788b2459eb4.dcm
inflating: stage_2_train_images/fffb2395-8edd-4954-8a89-ffe2fd329be3.dcm
inflating: stage_2_train_images/fffba05a-1635-4545-9bbd-57ad4cfe8d27.dcm
inflating: stage_2_train_images/fffc95b5-605b-4226-80ab-62caec682b22.dcm
inflating: stage_2_train_images/fffcff11-d018-4414-971a-a7cefa327795.dcm
inflating: stage_2_train_images/fffec09e-8a4a-48b1-b33e-ab4890ccd136.dcm
inflating: stage_2_train_labels.csv
```

In [0]:

```
!ls #check the files and folders in current directory
```

```
drive                                    stage_2_detailed_class_info.csv
'GCP Credits Request Link - RSNA.txt'    stage_2_sample_submission.csv
kaggle.json                              stage_2_test_images
rsna-pneumonia-detection-challenge.zip   stage_2_train_images
sample_data                              stage_2_train_labels.csv
```

Lets see the files that we have

stage_2_train_images: Directory containing training set raw image (DICOM) files

stage_2_test_images: Directory containing test set raw image (DICOM) files

stage_2_detailed_class_info.csv: Contains detailed information about the positive and negative classes in the training set

stage_2_train_labels.csv: CSV file containing training set patientIds and labels (including bounding boxes)

The training data is provided as a set of patientIds and bounding boxes. Bounding boxes are defined as follows: x-min y-min width height

There is also a binary target column, Target, indicating pneumonia or non-pneumonia.

There may be multiple rows per patientId.

In [0]:

```
train_labels = pd.read_csv('stage_2_train_labels.csv')
data_info = pd.read_csv('stage_2_detailed_class_info.csv')
sample_submission = pd.read_csv('stage_2_sample_submission.csv')
```

In [0]:

```
sample_submission.head()
```

Out[0]:

	patientId	PredictionString
0	0000a175-0e68-4ca4-b1af-167204a7e0bc	0.5 0 0 100 100
1	0005d3cc-3c3f-40b9-93c3-46231c3eb813	0.5 0 0 100 100
2	000686d7-f4fc-448d-97a0-44fa9c5d3aa6	0.5 0 0 100 100
3	000e3a7d-c0ca-4349-bb26-5af2d8993c3d	0.5 0 0 100 100
4	00100a24-854d-423d-a092-edcf6179e061	0.5 0 0 100 100

In [0]:

```
data_info.head()
```

Out[0]:

	patientId	class
0	0004cfab-14fd-4e49-80ba-63a80b6bddd6	No Lung Opacity / Not Normal
1	00313ee0-9eaa-42f4-b0ab-c148ed3241cd	No Lung Opacity / Not Normal
2	00322d4d-1c29-4943-afc9-b6754be640eb	No Lung Opacity / Not Normal
3	003d8fa0-6bf1-40ed-b54c-ac657f8495c5	Normal
4	00436515-870c-4b36-a041-de91049b9ab4	Lung Opacity

In [0]:

```
train_labels.head()
```

Out[0]:

	patientId	x	y	width	height	Target
0	0004cfab-14fd-4e49-80ba-63a80b6bddd6	NaN	NaN	NaN	NaN	0
1	00313ee0-9eaa-42f4-b0ab-c148ed3241cd	NaN	NaN	NaN	NaN	0
2	00322d4d-1c29-4943-afc9-b6754be640eb	NaN	NaN	NaN	NaN	0
3	003d8fa0-6bf1-40ed-b54c-ac657f8495c5	NaN	NaN	NaN	NaN	0
4	00436515-870c-4b36-a041-de91049b9ab4	264.0	152.0	213.0	379.0	1

In [0]:

```
train_labels.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 30227 entries, 0 to 30226
Data columns (total 6 columns):
 #   Column     Non-Null Count  Dtype
---  ------     --------------  -----
 0   patientId  30227 non-null  object
 1   x          9555 non-null   float64
 2   y          9555 non-null   float64
 3   width      9555 non-null   float64
 4   height     9555 non-null   float64
 5   Target     30227 non-null  int64
dtypes: float64(4), int64(1), object(1)
memory usage: 1.4+ MB
```

In [0]:

```
sample = train_labels.iloc[0,:]
sample2 = train_labels.iloc[15,:]
```

In [0]:

```
sample
```

Out[0]:

```
patientId     0004cfab-14fd-4e49-80ba-63a80b6bddd6
x                                              NaN
y                                              NaN
width                                          NaN
height                                         NaN
Target                                           0
Name: 0, dtype: object
```

In [0]:

```
sample2
```

Out[0]:

```
patientId     00aecb01-a116-45a2-956c-08d2fa55433f
x                                              547
y                                              299
width                                          119
height                                         165
Target                                           1
Name: 15, dtype: object
```

As you can see the training data information consists of:

patiendId One unique value for each patient

Target Either 0 or 1 for absence or presence of pneumonia, respectively

x and y The center of the bounding box, if the Target is 0 the value of x and y will be NaN

width and height The width and the height of the bounding box, if the Target is 0 the value of the width and the height will be NaN

Images

Images are in DICOM format. To handle with this format we are going to use Pydicom

In [0]:

```
!pip install pydicom #install pdicom for dicom images
```

```
Collecting pydicom
  Downloading pydicom-1.4.2-py2.py3-none-any.whl (35.3 MB)
     |████████████████████████████████| 35.3 MB 32 kB/s
Installing collected packages: pydicom
Successfully installed pydicom-1.4.2
```

In [0]:

```
import pydicom #will improt pydicom
```

In [0]:

```python
patientId = train_labels['patientId'][0]
dcm_file = 'stage_2_train_images/%s.dcm' % patientId
dcm_data = pydicom.read_file(dcm_file)

print(dcm_data)
```

```
(0008, 0005) Specific Character Set              CS: 'ISO_IR 100'
(0008, 0016) SOP Class UID                       UI: Secondary Capture Ima
ge Storage
(0008, 0018) SOP Instance UID                    UI: 1.2.276.0.7230010.3.
1.4.8323329.28530.1517874485.775526
(0008, 0020) Study Date                          DA: '19010101'
(0008, 0030) Study Time                          TM: '000000.00'
(0008, 0050) Accession Number                    SH: ''
(0008, 0060) Modality                            CS: 'CR'
(0008, 0064) Conversion Type                     CS: 'WSD'
(0008, 0090) Referring Physician's Name          PN: ''
(0008, 103e) Series Description                  LO: 'view: PA'
(0010, 0010) Patient's Name                      PN: '0004cfab-14fd-4e49-8
0ba-63a80b6bddd6'
(0010, 0020) Patient ID                          LO: '0004cfab-14fd-4e49-8
0ba-63a80b6bddd6'
(0010, 0030) Patient's Birth Date                DA: ''
(0010, 0040) Patient's Sex                       CS: 'F'
(0010, 1010) Patient's Age                       AS: '51'
(0018, 0015) Body Part Examined                  CS: 'CHEST'
(0018, 5101) View Position                       CS: 'PA'
(0020, 000d) Study Instance UID                  UI: 1.2.276.0.7230010.3.
1.2.8323329.28530.1517874485.775525
(0020, 000e) Series Instance UID                 UI: 1.2.276.0.7230010.3.
1.3.8323329.28530.1517874485.775524
(0020, 0010) Study ID                            SH: ''
(0020, 0011) Series Number                       IS: "1"
(0020, 0013) Instance Number                     IS: "1"
(0020, 0020) Patient Orientation                 CS: ''
(0028, 0002) Samples per Pixel                   US: 1
(0028, 0004) Photometric Interpretation          CS: 'MONOCHROME2'
(0028, 0010) Rows                                US: 1024
(0028, 0011) Columns                             US: 1024
(0028, 0030) Pixel Spacing                       DS: [0.14300000000000002,
0.14300000000000002]
(0028, 0100) Bits Allocated                      US: 8
(0028, 0101) Bits Stored                         US: 8
(0028, 0102) High Bit                            US: 7
(0028, 0103) Pixel Representation                US: 0
(0028, 2110) Lossy Image Compression             CS: '01'
(0028, 2114) Lossy Image Compression Method      CS: 'ISO_10918_1'
(7fe0, 0010) Pixel Data                          OB: Array of 142006 eleme
nts
```

Let us check the size of the images

In [0]:

```
im = dcm_data.pixel_array
print(type(im))
print(im.dtype)
print(im.shape)
```

```
<class 'numpy.ndarray'>
uint8
(1024, 1024)
```

Exploratory Data Analysis

In [0]:

```
print('Number of rows (unique boxes per patient) in main train dataset:', train_labels.
shape[0])
print('Number of unique patient IDs:', train_labels['patientId'].nunique())
```

```
Number of rows (unique boxes per patient) in main train dataset: 30227
Number of unique patient IDs: 26684
```

In [0]:

```
train_labels.groupby('Target').size().plot.bar()
print(train_labels.groupby('Target').size() / train_labels.shape[0])
```

```
Target
0    0.683892
1    0.316108
dtype: float64
```
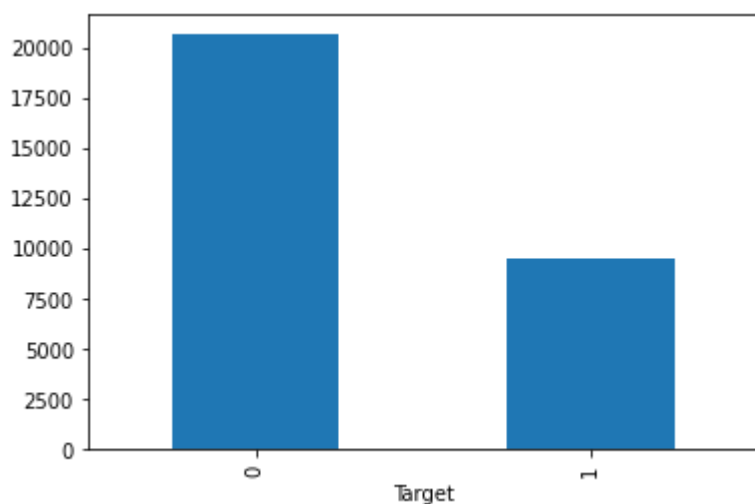

Detailed Class Info Data¶

However, we may use the detailed information that been listed in stage_2_detailed_class_info.csv.

We revisit what is inside that file

In [0]:

```
data_info.head(6)
```

Out[0]:

	patientId	class
0	0004cfab-14fd-4e49-80ba-63a80b6bddd6	No Lung Opacity / Not Normal
1	00313ee0-9eaa-42f4-b0ab-c148ed3241cd	No Lung Opacity / Not Normal
2	00322d4d-1c29-4943-afc9-b6754be640eb	No Lung Opacity / Not Normal
3	003d8fa0-6bf1-40ed-b54c-ac657f8495c5	Normal
4	00436515-870c-4b36-a041-de91049b9ab4	Lung Opacity
5	00436515-870c-4b36-a041-de91049b9ab4	Lung Opacity

In [0]:

```
data_info.groupby('class').size().plot.bar()
print(data_info.groupby('class').size() / train_labels.shape[0])
```

```
class
Lung Opacity                 0.316108
No Lung Opacity / Not Normal 0.391074
Normal                       0.292818
dtype: float64
```
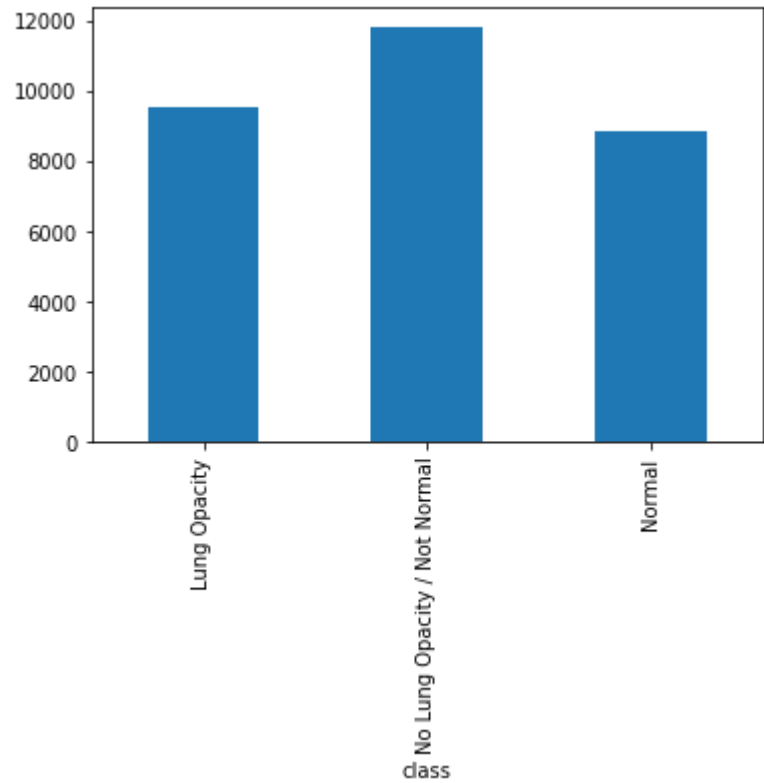

As you can see we can add a new column called class to the training data, that will help us build more nuanced models.

Now we got general target called Target which contains only two classes 0 and 1, and detailed target calsses No Lung Opacity / Not Normal, Normal and Lung Opacity

Data preparation and further EDA

In [0]:

```
train_data = pd.concat([train_labels,data_info['class']], axis = 1)
```

In [0]:

```
train_data.head(7)
```

Out[0]:

	patientId	x	y	width	height	Target	class
0	0004cfab-14fd-4e49-80ba-63a80b6bddd6	NaN	NaN	NaN	NaN	0	No Lung Opacity / Not Normal
1	00313ee0-9eaa-42f4-b0ab-c148ed3241cd	NaN	NaN	NaN	NaN	0	No Lung Opacity / Not Normal
2	00322d4d-1c29-4943-afc9-b6754be640eb	NaN	NaN	NaN	NaN	0	No Lung Opacity / Not Normal
3	003d8fa0-6bf1-40ed-b54c-ac657f8495c5	NaN	NaN	NaN	NaN	0	Normal
4	00436515-870c-4b36-a041-de91049b9ab4	264.0	152.0	213.0	379.0	1	Lung Opacity
5	00436515-870c-4b36-a041-de91049b9ab4	562.0	152.0	256.0	453.0	1	Lung Opacity
6	00569f44-917d-4c86-a842-81832af98c30	NaN	NaN	NaN	NaN	0	No Lung Opacity / Not Normal

In [0]:

```
unique_train_data = train_data.drop_duplicates(subset= 'patientId')
```

In [0]:

```
unique_train_data.head(6)
```

Out[0]:

	patientId	x	y	width	height	Target	class
0	0004cfab-14fd-4e49-80ba-63a80b6bddd6	NaN	NaN	NaN	NaN	0	No Lung Opacity / Not Normal
1	00313ee0-9eaa-42f4-b0ab-c148ed3241cd	NaN	NaN	NaN	NaN	0	No Lung Opacity / Not Normal
2	00322d4d-1c29-4943-afc9-b6754be640eb	NaN	NaN	NaN	NaN	0	No Lung Opacity / Not Normal
3	003d8fa0-6bf1-40ed-b54c-ac657f8495c5	NaN	NaN	NaN	NaN	0	Normal
4	00436515-870c-4b36-a041-de91049b9ab4	264.0	152.0	213.0	379.0	1	Lung Opacity
6	00569f44-917d-4c86-a842-81832af98c30	NaN	NaN	NaN	NaN	0	No Lung Opacity / Not Normal

In [0]:

```
unique_train_data.groupby('class').size().plot.bar()
print(unique_train_data.groupby('class').size() / unique_train_data.shape[0])
```

```
class
Lung Opacity                 0.225304
No Lung Opacity / Not Normal 0.443000
Normal                       0.331697
dtype: float64
```
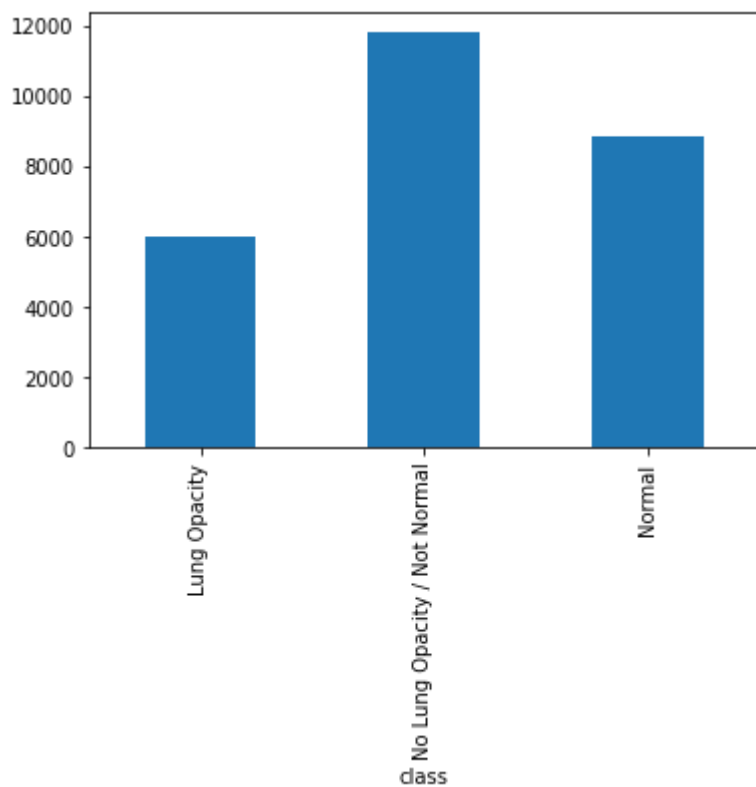
In [0]:

```
unique_train_data.groupby('Target').size().plot.bar()
print(unique_train_data.groupby('Target').size() / unique_train_data.shape[0])
```

```
Target
0    0.774696
1    0.225304
dtype: float64
```
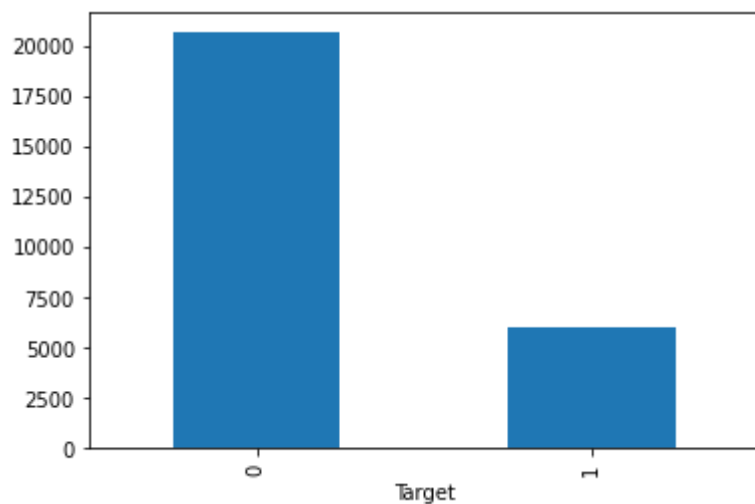

Data Visualization

Utility functions

In [0]:

```python
def get_sample(dataframe, img_dir, patientId):
    '''
    helper function used to parse a sample from the data
    args:
    dataframe: pandas dataframe (e.g train, test)
    img_dir: directory to data images (.dcm)
    patientId: unique Id of the patient

    returns:
    gray scale image of the patient, bouding box values, target, patient_class
    '''
    x =[]
    y = []
    h = []
    w = []
    for i,j in zip(dataframe['patientId'],range(len(dataframe))):
        if i == patientId:
            patient = dataframe.iloc[j,:]
            x.append(patient[1])
            y.append(patient[2])
            w.append(patient[3])
            h.append(patient[4])
            target = patient[5]
            p_class = patient[6]

    dcm_data = img_dir+'/%s.dcm' % patientId
    dcm_data = pydicom.read_file(dcm_data)
    img = dcm_data.pixel_array

    return img, x, y, h, w, target, p_class
```

In [0]:

```python
def draw(img, x, y, h, w):
    '''
    helper function used to draw a bounding box/s of the areas of the lung
    args:
    img: grayscale image of the pateint's chest X-ray
    x,y,h,w: bounding box parameters

    returns:
    grayscale images with drawn bounding box if exists
    '''
    fig,ax = plt.subplots(1)
    for x_sub,y_sub,h_sub,w_sub in zip(x, y, h, w):
        rect = patches.Rectangle((x_sub,y_sub),w_sub,h_sub,linewidth=1,edgecolor='r',faceco
lor='none')
        ax.add_patch(rect)

    pylab.imshow(img, cmap=pylab.cm.gist_gray)
    ax.add_patch(rect)
    plt.show()
```

In [0]:

```python
img, x, y, h, w, target, p_class = get_sample(dataframe=train_data,
                                              img_dir='stage_2_train_images',
                                              patientId='00704310-78a8-4b38-8475-49f457
3b2dbb')
print(target, p_class)
draw(img,x,y,h,w)
```
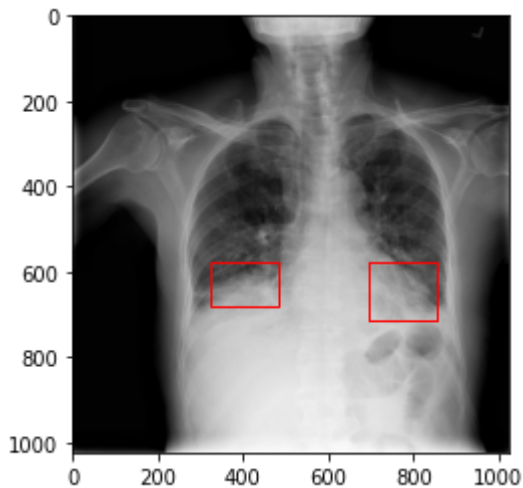
1 Lung Opacity

In [0]:

```python
img, x, y, h, w, target, p_class = get_sample(dataframe=train_data,
                                              img_dir='stage_2_train_images',
                                              patientId='0100515c-5204-4f31-98e0-f35e4b
00004a')
print(target, p_class)
draw(img,x,y,h,w)
```
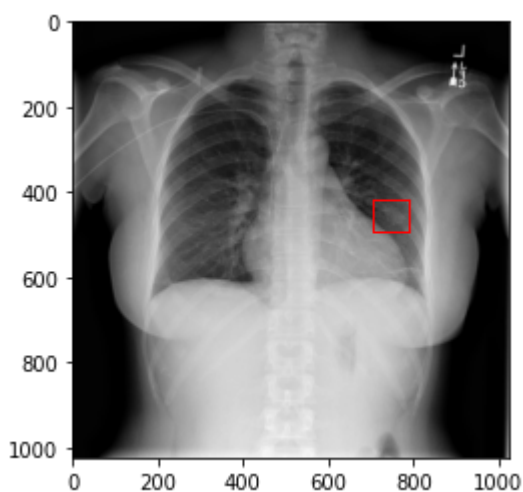
1 Lung Opacity

In [0]:

```python
img, x, y, h, w, target, p_class = get_sample(dataframe=train_data,
                                              img_dir='stage_2_train_images',
                                              patientId='00322d4d-1c29-4943-afc9-b6754b
e640eb')
print(target, p_class)
draw(img,x,y,h,w)
```

0 No Lung Opacity / Not Normal
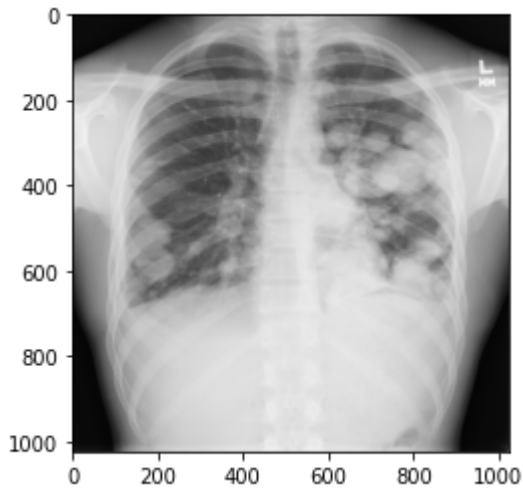
In [0]:

```python
img, x, y, h, w, target, p_class = get_sample(dataframe=train_data,
                                              img_dir='stage_2_train_images',
                                              patientId='003d8fa0-6bf1-40ed-b54c-ac657f
8495c5')
print(target, p_class)
draw(img,x,y,h,w)
```

0 Normal
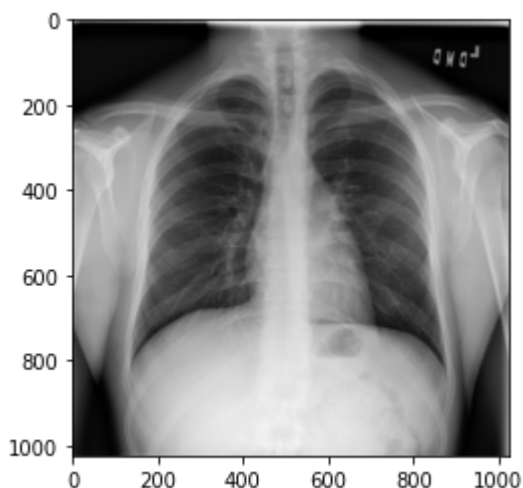
MORE FINDINGS FROM EDA DONE SEPARATELY

Further details on the data:-

total number of patientId :: 26684 Total number of patients with Non null patientSex :: 26684 Total number of patients with Non null patientAge :: 26684 Number of missing values to be imputed for the first field :: 0 Number of missing values to be imputed for the second field :: 0

Histogram below using patient age group
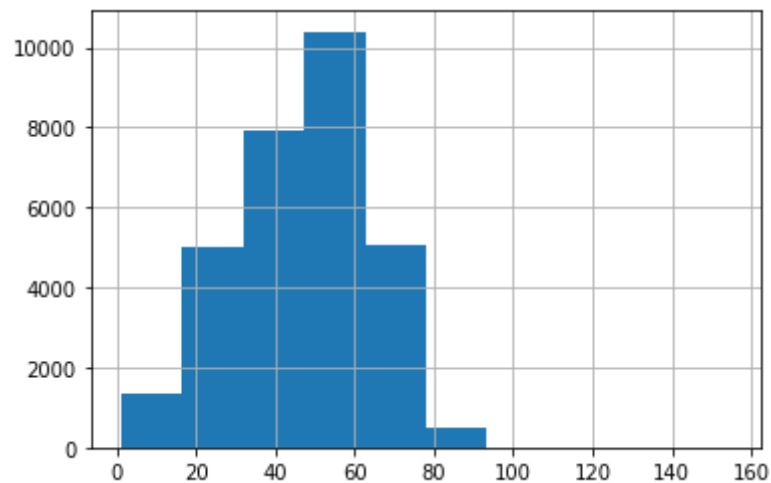
Below histogram shows outliers with patients age > 90
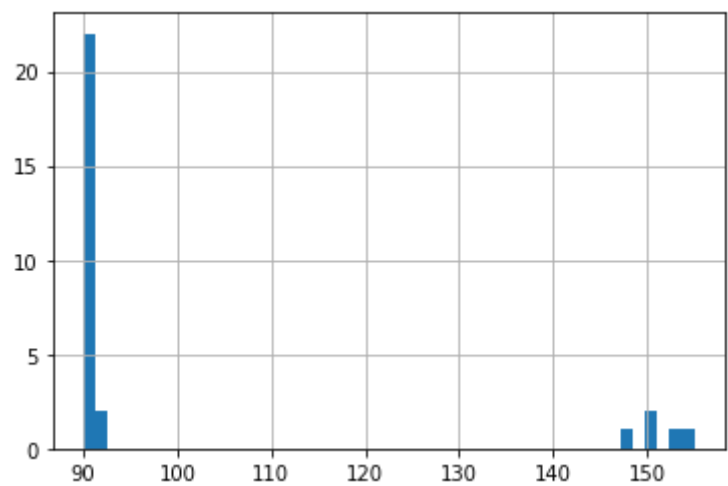
Below histogram shows division of patient based on their gender.
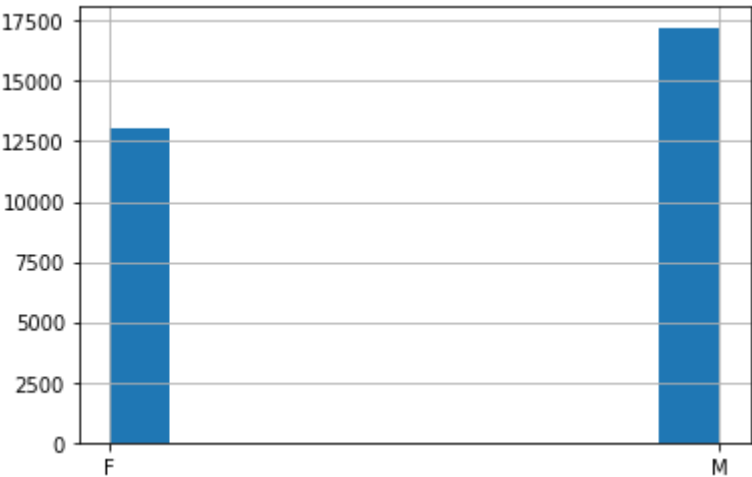
Given below are data images for patients > 100
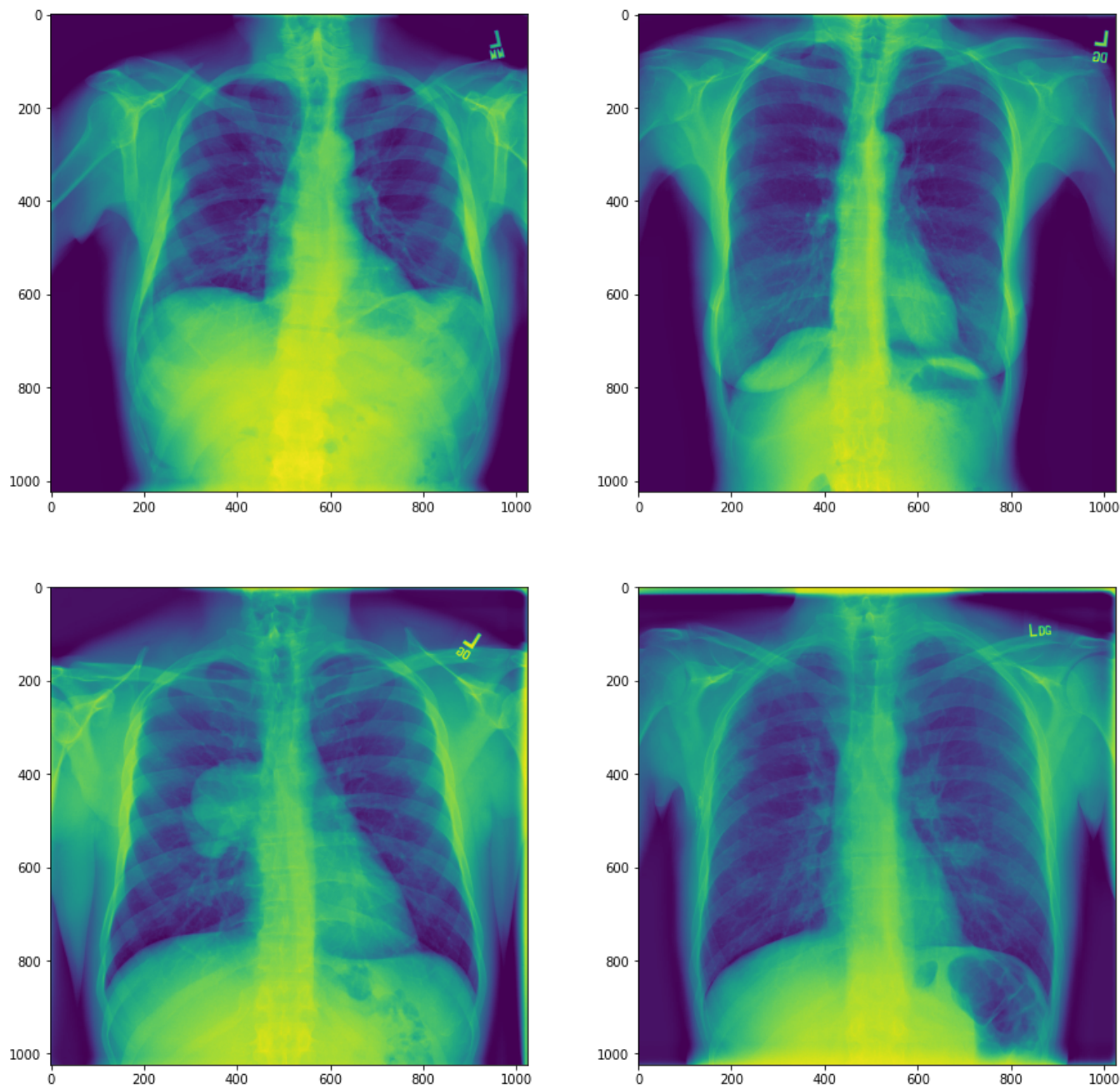
Given below are data images for patients < 5 year of age
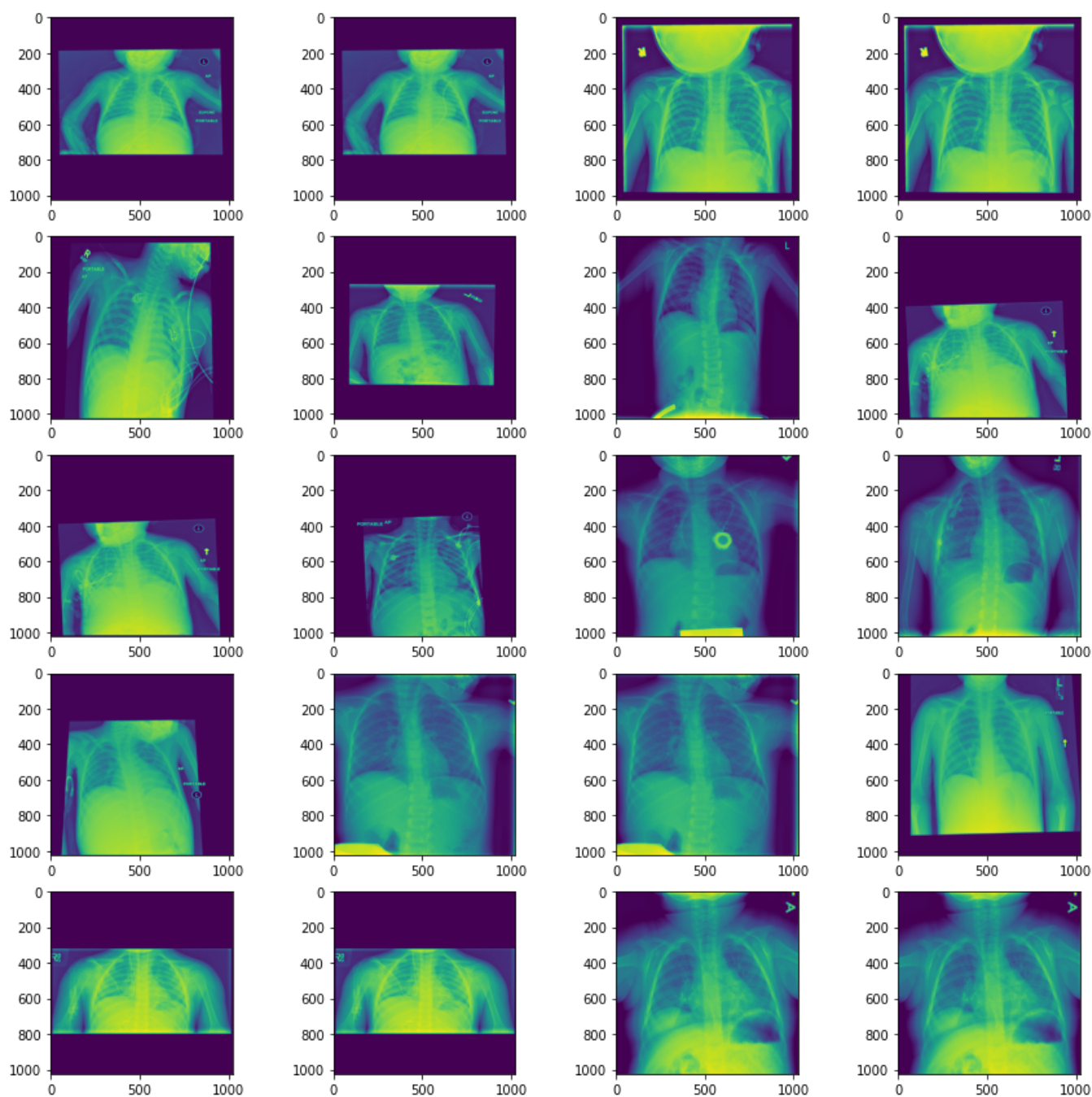
EDA on pneumonia per age category with classes
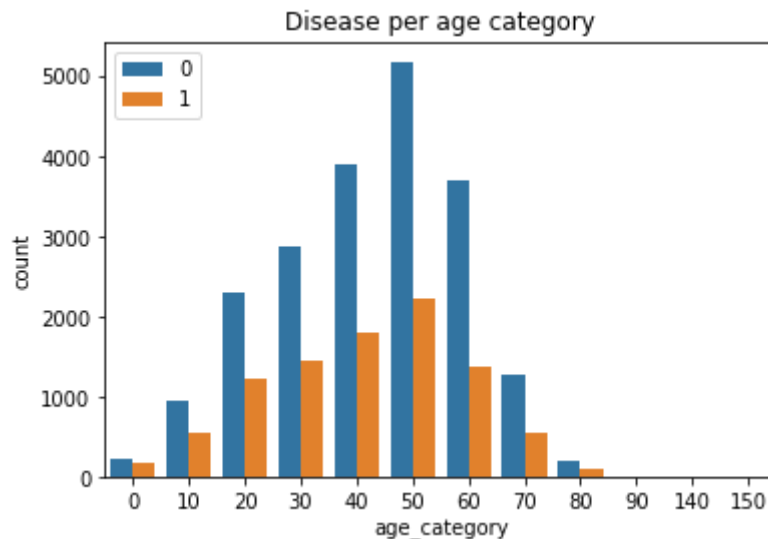
The above output shows distribution slightly skewed to the left

EDA on disease per gender
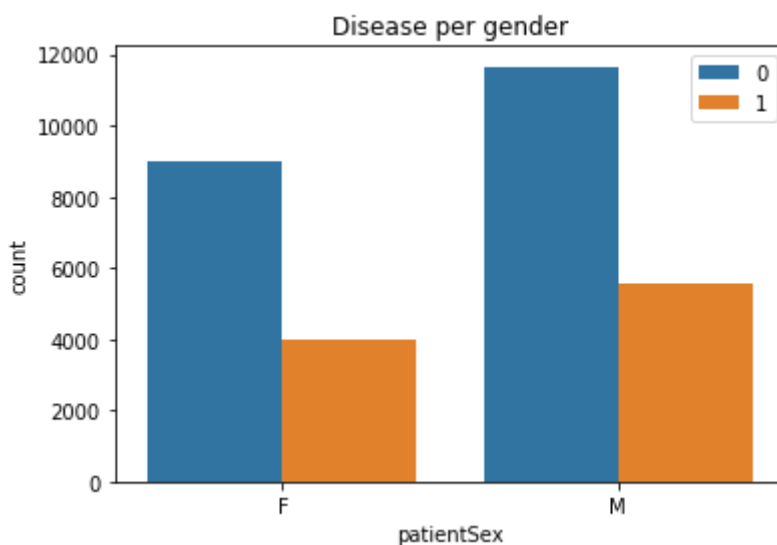
The output shows slightly higher cases of pneumonia in male patients when compared to the female patients

Data pre-processing

Split the train data into train and validation

Note: The following function mainly splits the training images which are 26684 image, and also wrap up a training and validation csv file for the unique patients ID.

In [0]:

```python
def train_split(train_csv, img_dir, split_size = 0.2, base_dir = ''):
  '''
  function used to split the training data into train and validation set
  args:-
    train_csv: Pandas data frame contains all the training information (e.g patientId,
 x, y, w, etc.)
    img_dir: Path to training image directory
    split_size: How much you want to split the validation set from the training data
    base_dir: Base directory to join it with img_dir

  returns:
    training_info and validation_info: Those two dataframes contain all the information
after spliting
  '''

  train_dir = os.path.join(base_dir,'train')
  validation_dir = os.path.join(base_dir,'validation')
  if not os.path.exists(train_dir):
    os.mkdir(train_dir)
  if not os.path.exists(validation_dir):
    os.mkdir(validation_dir)

  training_info = pd.DataFrame(columns=train_csv.columns)
  validation_info = pd.DataFrame(columns=train_csv.columns)

  training_indices = list(range(len(train_csv)))
  random.shuffle(training_indices)
  split_size = (1-split_size)*len(training_indices)

  training_idx = training_indices[:int(split_size)]
  validation_idx = training_indices[int(split_size):]

  for t_patient in training_idx:
    patient = train_csv.iloc[t_patient,:]
    patientId = patient[0]
    src = os.path.join(img_dir, patientId+'.dcm')
    dst = os.path.join(train_dir, patientId+'.dcm')
    shutil.copyfile(src, dst)
    training_info = training_info.append(patient, ignore_index=True)

  for v_patient in validation_idx:
    patient = train_csv.iloc[v_patient,:]
    patientId = patient[0]
    src = os.path.join(img_dir, patientId+'.dcm')
    dst = os.path.join(validation_dir, patientId+'.dcm')
    shutil.copyfile(src, dst)
    validation_info = validation_info.append(patient, ignore_index=True)

  print('total training data:', len(os.listdir(train_dir)))
  print('total validation data:', len(os.listdir(validation_dir)))
  return training_info, validation_info
```

In [0]:

```
training_info, validation_info = train_split(unique_train_data,'stage_2_train_images',s
plit_size=0.1)
```

total training data: 24015
total validation data: 2669

In [0]:

```
print(len(training_info), len(validation_info))
```

24015 2669

Data generator

The idea behind using a **Keras generator** is to get batches of input and corresponding output on the fly during training process, e.g. reading in 100 images, getting corresponding 100 label vectors and then feeding this set to the gpu for training step.

Every Sequence must implement the **getitem** and the **len** methods. If you want to modify your dataset between epochs you may implement on_epoch_end. The method **getitem** should return a complete batch.

Sequence are a safer way to do multiprocessing. This structure guarantees that the network will only train once on each sample per epoch which is not the case with generators.

In [0]:

```python
class DataGenerator(keras.utils.Sequence):
  def __init__(self,data_csv, img_dir, batch_size=32, dim=(256,256),
               n_classes=2, transform=None, n_channels=1, shuffle=True,
               classes ={'Normal':0,'No Lung Opacity / Not Normal':1,'Lung Opacity': 2
}, debug = False):
    '''Initialization
    args:-
      data_csv: data csv contains all the information of the patients
      img_dir: directory that contains the images
      batch_size: value of the batch size
      dim: tuple that contains the dimension of the generated images
      n_channels: value of the number of the channels of the images to be generated
      n_classes: if equal to 2 it will generate based on `Target` column,
                 and if equal to 3 it will generate based on `class` column
      self.classes: dict that map every categorical class to numerical value
      transform: Any list of transformation to be applied on the data (Augmentation)
      shuffle: bolean value if set to True, the data will be shuffled at the start of e
very epoch
    '''
    self.data_csv = data_csv
    self.patientIds = self.data_csv['patientId']
    self.img_dir = img_dir
    self.batch_size = batch_size
    self.dim = dim
    self.n_channels = n_channels
    self.n_classes = n_classes
    if n_classes == 2:
      self.classes = classes ={'Normal':0,'Lung Opacity': 1}
    else:
      self.classes = classes
    self.shuffle = shuffle
    self.debug = debug
    self.transform = transform
    self.on_epoch_end()

  def __len__(self):
    '''Denotes the number of batches per epoch
       returns:-
         number of batches per epoch'''
    return int(np.floor(len(self.data_csv) / self.batch_size))

  def __getitem__(self,index):
    '''Generate one batch of data
      args:-
        index: index of the batch
      returns:
        imgs and labels when fitting, imgs only when predicting'''
    #Generate indexes of the batch
    indexes = self.indexes[index*self.batch_size:(index+1)*self.batch_size]

    #Find the list of patientIds
    list_IDs_batch = [self.patientIds[k] for k in indexes]

    imgs, labels = self.__data_generation(list_IDs_batch, self.n_classes)

    if self.debug:
      return list_IDs_batch, imgs, labels
    else :
      return imgs, labels
```

```python
  #maybe the same images
  def on_epoch_end(self):
    '''
    Updates indexes after each epoch
    '''
    self.indexes = np.arange(len(self.data_csv))
    if self.shuffle == True:
      np.random.shuffle(self.indexes)


  def __data_generation(self, list_IDs_batch, n_classes):
    '''
    Generates data containing batch_size samples
    args:-
        list_Ids_batch: lsit of the patientIds of specific batch number
    return:-
        imgs: An array of the patients images with shape (n_samples, *dim, n_channels)
 == 4D tensor
        labels: An array of encoded labels'''
    imgs = np.empty((self.batch_size, *self.dim, self.n_channels))
    labels = np.empty((self.batch_size), dtype=int)

    for i, ID in enumerate(list_IDs_batch):
      #Store patient image
      imgs[i,] = self.load_img(self.img_dir, ID, self.dim)
      labels[i] = self.get_label(ID, self.n_classes)
    if n_classes ==3:
      labels = keras.utils.to_categorical(labels, num_classes= n_classes) #one hot enco
ded if # of classes3
    return imgs, labels


  def load_img(self, img_dir, patientId,dim):
    '''
    helper function used to load patient image by `patientID`
    '''
    dcm_data = img_dir+'/%s.dcm' % patientId
    dcm_data = pydicom.read_file(dcm_data)
    img = dcm_data.pixel_array
    img = cv2.resize(img,dim)
    img = img.reshape((dim[0],dim[1],1))
    if not self.transform == None:
      params = self.transform.get_random_transform(img.shape)
      img = self.transform.apply_transform(img,params)
    else:
      img = np.float32(img) / 255.
    return img

  def get_label(self,patientId, n_classes):
    '''
    helper function used to get label specified label of the patient
    based on number of classes it will return the label of the patient
    '''
    full_info = train_data.loc[train_data['patientId'] == patientId].values
    if n_classes == 2:

      return int(full_info[0][-2]) #get the corresponding numerical value (0,1)

    elif n_classes == 3:
      class_label = full_info[:,-1] #get class type (e.g Normal, Lung Opacity)
      class_string = class_label[0]
```

```
        return int(self.classes[class_string]) #get the corresponding numerical value (0,
1,2)
```

We will use data generator function and prepare the batch data for training and validation

In [0]:

```
train_generator = DataGenerator(data_csv = training_info, img_dir='train',
                                batch_size=32, dim=(256,256), n_classes=2)

validation_generator = DataGenerator(data_csv = validation_info, img_dir='validation',
                                batch_size=32, dim=(256,256), n_classes=2)
```

Data augmentation using image data generator

In [0]:

```
transform = ImageDataGenerator(rotation_range=15,
                               rescale = 1/255. ,
                               horizontal_flip=True,
                               zoom_range=[0.5,1.0])
validation_transform = ImageDataGenerator(rescale = 1/255.)

train_generator = DataGenerator(data_csv = training_info, img_dir='train',
                                batch_size=32, dim=(256,256), n_classes=3, transform=tr
ansform)

validation_generator = DataGenerator(data_csv = validation_info, img_dir='validation',
                                batch_size=32, dim=(256,256), n_classes=3,transform=val
idation_transform)
```

In [ ]:

```
print("Number of batches for training set= ", len(train_generator))
print("Number of batches for validation set= ", len(validation_generator))
```

We will build custom CNN in the begining to see how it perform

Start with model that overfits.

In [0]:

```python
input_img = Input(shape=(256,256,1))
conv1 = Convolution2D(32, kernel_size=4, activation='relu')(input_img)
pool1 = MaxPooling2D(pool_size=(2, 2))(conv1)

conv2 = Convolution2D(64, kernel_size=3, activation='relu')(pool1)
pool2 = MaxPooling2D(pool_size=(2, 2))(conv2)

conv3 = Convolution2D(128, kernel_size=3, activation='relu')(pool2)
pool3 = MaxPooling2D(pool_size=(2, 2))(conv3)

conv4 = Convolution2D(128, kernel_size=2, activation='relu')(pool3)
pool4 = MaxPooling2D(pool_size=(2, 2))(conv4)

pool_GAP = AveragePooling2D()(pool4)
flat = Flatten()(pool_GAP)

hidden1 = Dense(2400, activation='relu')(flat)
drop1 = Dropout(0.25)(hidden1)

hidden2 = Dense(1024, activation='relu')(drop1)
#drop2 = Dropout(0.25)(hidden2)

output =  Dense(3, activation='softmax')(hidden2)

model = Model(inputs=input_img, outputs=output)
# summarize layers
print(model.summary())
# plot graph
plot_model(model, to_file='convolutional_neural_network.png')
```

Model: "model_1"

Layer (type)	Output Shape	Param #
input_1 (InputLayer)	(None, 256, 256, 1)	0
conv2d_1 (Conv2D)	(None, 253, 253, 32)	544
max_pooling2d_1 (MaxPooling2	(None, 126, 126, 32)	0
conv2d_2 (Conv2D)	(None, 124, 124, 64)	18496
max_pooling2d_2 (MaxPooling2	(None, 62, 62, 64)	0
conv2d_3 (Conv2D)	(None, 60, 60, 128)	73856
max_pooling2d_3 (MaxPooling2	(None, 30, 30, 128)	0
conv2d_4 (Conv2D)	(None, 29, 29, 128)	65664
max_pooling2d_4 (MaxPooling2	(None, 14, 14, 128)	0
average_pooling2d_1 (Average	(None, 7, 7, 128)	0
flatten_1 (Flatten)	(None, 6272)	0
dense_1 (Dense)	(None, 2400)	15055200
dropout_1 (Dropout)	(None, 2400)	0
dense_2 (Dense)	(None, 1024)	2458624
dense_3 (Dense)	(None, 3)	3075

Total params: 17,675,459
Trainable params: 17,675,459
Non-trainable params: 0

None

Out[0]:

```
┌─────────────────────────────┐
│  input_1: InputLayer        │
└─────────────────────────────┘
              │
              ▼
┌─────────────────────────────┐
│  conv2d_1: Conv2D           │
└─────────────────────────────┘
              │
              ▼
┌─────────────────────────────────────┐
│  max_pooling2d_1: MaxPooling2D      │
└─────────────────────────────────────┘
              │
              ▼
┌─────────────────────────────┐
│  conv2d_2: Conv2D           │
└─────────────────────────────┘
              │
              ▼
┌─────────────────────────────────────┐
│  max_pooling2d_2: MaxPooling2D      │
└─────────────────────────────────────┘
              │
              ▼
┌─────────────────────────────┐
│  conv2d_3: Conv2D           │
└─────────────────────────────┘
              │
              ▼
┌─────────────────────────────────────┐
│  max_pooling2d_3: MaxPooling2D      │
└─────────────────────────────────────┘
              │
              ▼
┌─────────────────────────────┐
│  conv2d_4: Conv2D           │
└─────────────────────────────┘
              │
              ▼
┌─────────────────────────────────────┐
│  max_pooling2d_4: MaxPooling2D      │
└─────────────────────────────────────┘
              │
              ▼
┌───────────────────────────────────────────────┐
│  average_pooling2d_1: AveragePooling2D        │
└───────────────────────────────────────────────┘
              │
              ▼
┌─────────────────────────────┐
│  flatten_1: Flatten         │
└─────────────────────────────┘
```

dense_1: Dense

dropout_1: Dropout

dense_2: Dense

dense_3: Dense

In [0]:

```python
# Train model on dataset
model.compile(loss='categorical_crossentropy',
              optimizer=optimizers.Adam(),
              metrics=['acc'])
history = model.fit_generator(generator=train_generator,
                  validation_data=validation_generator,use_multiprocessing =True, epoch
s= 25)
```

```python
# Train model on dataset
model.compile(loss='categorical_crossentropy',
              optimizer=optimizers.Adam(),
              metrics=['acc'])
```

```
Epoch 1/25
750/750 [==============================] - 425s 567ms/step - loss: 1.2388
- acc: 0.4666 - val_loss: 0.8902 - val_acc: 0.4853
Epoch 2/25
750/750 [==============================] - 397s 529ms/step - loss: 0.9509
- acc: 0.5155 - val_loss: 0.8735 - val_acc: 0.5369
Epoch 3/25
750/750 [==============================] - 378s 504ms/step - loss: 0.9309
- acc: 0.5286 - val_loss: 0.9043 - val_acc: 0.5188
Epoch 4/25
750/750 [==============================] - 378s 504ms/step - loss: 0.9251
- acc: 0.5362 - val_loss: 0.9228 - val_acc: 0.5723
Epoch 5/25
750/750 [==============================] - 380s 507ms/step - loss: 0.9142
- acc: 0.5413 - val_loss: 0.9836 - val_acc: 0.5587
Epoch 6/25
750/750 [==============================] - 380s 507ms/step - loss: 0.8816
- acc: 0.5665 - val_loss: 1.0166 - val_acc: 0.5279
Epoch 7/25
750/750 [==============================] - 376s 502ms/step - loss: 0.8658
- acc: 0.5787 - val_loss: 0.8888 - val_acc: 0.5700
Epoch 8/25
750/750 [==============================] - 376s 502ms/step - loss: 0.8665
- acc: 0.5768 - val_loss: 0.8383 - val_acc: 0.5685
Epoch 9/25
750/750 [==============================] - 377s 502ms/step - loss: 0.8533
- acc: 0.5834 - val_loss: 0.9343 - val_acc: 0.5700
Epoch 10/25
750/750 [==============================] - 377s 502ms/step - loss: 0.8455
- acc: 0.5909 - val_loss: 1.1040 - val_acc: 0.5587
Epoch 11/25
750/750 [==============================] - 377s 503ms/step - loss: 0.8384
- acc: 0.5948 - val_loss: 0.8411 - val_acc: 0.6171
Epoch 12/25
750/750 [==============================] - 377s 503ms/step - loss: 0.8328
- acc: 0.5946 - val_loss: 1.0175 - val_acc: 0.5704
Epoch 13/25
750/750 [==============================] - 378s 503ms/step - loss: 0.8259
- acc: 0.6043 - val_loss: 0.7322 - val_acc: 0.6156
Epoch 14/25
750/750 [==============================] - 378s 504ms/step - loss: 0.8222
- acc: 0.6050 - val_loss: 0.7228 - val_acc: 0.5941
Epoch 15/25
750/750 [==============================] - 378s 504ms/step - loss: 0.8167
- acc: 0.6123 - val_loss: 0.7693 - val_acc: 0.6186
Epoch 16/25
750/750 [==============================] - 377s 503ms/step - loss: 0.8125
- acc: 0.6079 - val_loss: 0.8437 - val_acc: 0.6005
Epoch 17/25
750/750 [==============================] - 377s 502ms/step - loss: 0.8022
- acc: 0.6173 - val_loss: 0.5867 - val_acc: 0.6148
Epoch 18/25
750/750 [==============================] - 376s 502ms/step - loss: 0.8036
- acc: 0.6146 - val_loss: 0.8742 - val_acc: 0.6209
Epoch 19/25
750/750 [==============================] - 377s 503ms/step - loss: 0.7952
- acc: 0.6202 - val_loss: 0.7765 - val_acc: 0.6137
Epoch 20/25
750/750 [==============================] - 377s 502ms/step - loss: 0.7916
- acc: 0.6260 - val_loss: 0.7726 - val_acc: 0.6291
Epoch 21/25
```

```
750/750 [==============================] - 375s 500ms/step - loss: 0.7852
- acc: 0.6284 - val_loss: 0.8592 - val_acc: 0.6386
Epoch 22/25
750/750 [==============================] - 376s 502ms/step - loss: 0.7870
- acc: 0.6258 - val_loss: 0.6009 - val_acc: 0.6374
Epoch 23/25
750/750 [==============================] - 376s 501ms/step - loss: 0.7812
- acc: 0.6314 - val_loss: 0.6711 - val_acc: 0.6310
Epoch 24/25
750/750 [==============================] - 380s 506ms/step - loss: 0.7787
- acc: 0.6300 - val_loss: 0.9385 - val_acc: 0.6438
Epoch 25/25
750/750 [==============================] - 378s 505ms/step - loss: 0.7735
- acc: 0.6408 - val_loss: 0.6855 - val_acc: 0.6306
```

In [0]:

```python
# plot loss during training
plt.subplot(211)
plt.title('Loss')
plt.plot(history.history['loss'], label='train')
plt.plot(history.history['val_loss'], label='validation')
plt.legend()
# plot accuracy during training
plt.subplot(212)
plt.title('Accuracy')
plt.plot(history.history['acc'], label='train')
plt.plot(history.history['val_acc'], label='validation')
plt.legend()
plt.show()
```


The next stage is to start regularizing and tuning the hyperparameters

In [0]:

```
input_img = Input(shape=(224,224,1))
conv1 = Convolution2D(32, kernel_size=3, activation='relu')(input_img)
conv1_1 = Convolution2D(32, kernel_size=3, activation='relu')(conv1)
pool1 = MaxPooling2D(pool_size=(2, 2))(conv1_1)

conv2 = Convolution2D(64, kernel_size=3, activation='relu')(pool1)
conv2_2 = Convolution2D(64, kernel_size=3, activation='relu')(conv2)
pool2 = MaxPooling2D(pool_size=(2, 2))(conv2_2)

conv3 = Convolution2D(128, kernel_size=3, activation='relu')(pool2)
conv3_3 = Convolution2D(128, kernel_size=3, activation='relu')(conv3)
pool3 = MaxPooling2D(pool_size=(2, 2))(conv3_3)

conv4 = Convolution2D(128, kernel_size=3, activation='relu')(pool3)
conv4_4 = Convolution2D(128, kernel_size=3, activation='relu')(conv4)
pool4 = MaxPooling2D(pool_size=(2, 2))(conv4_4)

flat = Flatten()(pool4)

hidden1 = Dense(1024, activation='relu')(flat)
drop1 = Dropout(0.5)(hidden1)

output =  Dense(1, activation='sigmoid')(drop1)

model2 = Model(inputs=input_img, outputs=output)
# summarize layers
print(model2.summary())
# plot graph
plot_model(model2, to_file='convolutional_neural_network.png')
```
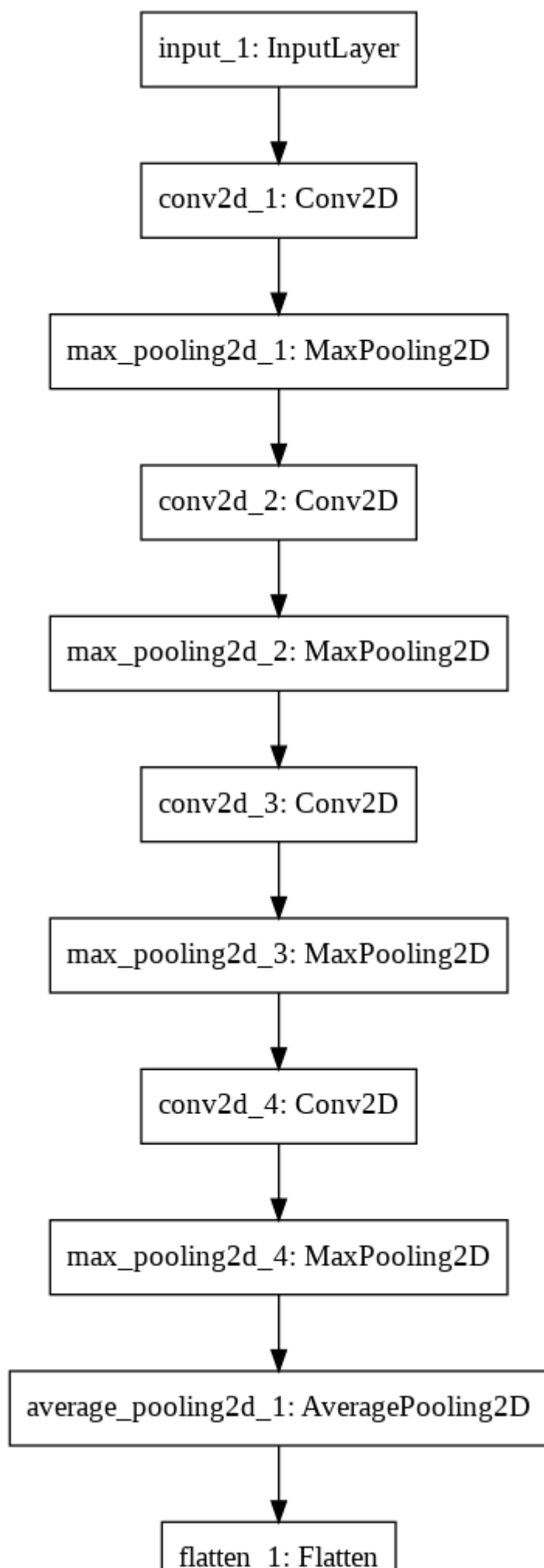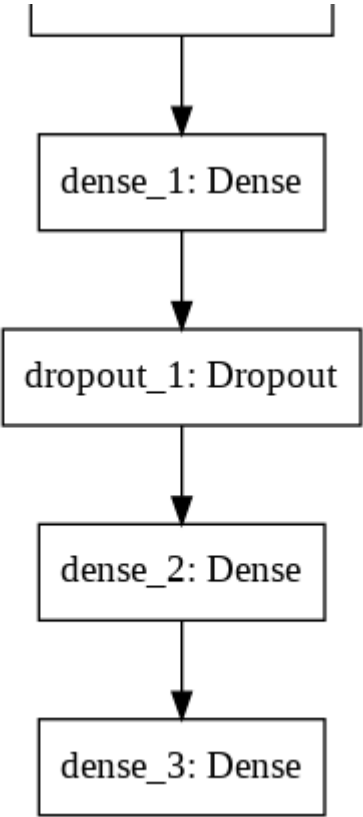
```
Model: "model_2"
_____
Layer (type)                 Output Shape              Param #
=================================================================
input_2 (InputLayer)         (None, 224, 224, 1)       0
_____
conv2d_5 (Conv2D)            (None, 222, 222, 32)       320
_____
conv2d_6 (Conv2D)            (None, 220, 220, 32)       9248
_____
max_pooling2d_5 (MaxPooling2 (None, 110, 110, 32)       0
_____
conv2d_7 (Conv2D)            (None, 108, 108, 64)       18496
_____
conv2d_8 (Conv2D)            (None, 106, 106, 64)       36928
_____
max_pooling2d_6 (MaxPooling2 (None, 53, 53, 64)         0
_____
conv2d_9 (Conv2D)            (None, 51, 51, 128)        73856
_____
conv2d_10 (Conv2D)           (None, 49, 49, 128)        147584
_____
max_pooling2d_7 (MaxPooling2 (None, 24, 24, 128)        0
_____
conv2d_11 (Conv2D)           (None, 22, 22, 128)        147584
_____
conv2d_12 (Conv2D)           (None, 20, 20, 128)        147584
_____
max_pooling2d_8 (MaxPooling2 (None, 10, 10, 128)        0
_____
flatten_2 (Flatten)          (None, 12800)              0
_____
dense_4 (Dense)              (None, 1024)               13108224
_____
dropout_2 (Dropout)          (None, 1024)               0
_____
dense_5 (Dense)              (None, 1)                  1025
=================================================================
Total params: 13,690,849
Trainable params: 13,690,849
Non-trainable params: 0
_____
None
```

Out[0]:

```
input_2: InputLayer
        |
        v
conv2d_5: Conv2D
        |
        v
conv2d_6: Conv2D
        |
        v
max_pooling2d_5: MaxPooling2D
        |
        v
conv2d_7: Conv2D
        |
        v
conv2d_8: Conv2D
        |
        v
max_pooling2d_6: MaxPooling2D
        |
        v
conv2d_9: Conv2D
        |
        v
conv2d_10: Conv2D
        |
        v
max_pooling2d_7: MaxPooling2D
        |
        v
conv2d_11: Conv2D
```

conv2d_12: Conv2D

max_pooling2d_8: MaxPooling2D

flatten_2: Flatten

dense_4: Dense

dropout_2: Dropout

dense_5: Dense

In [0]:
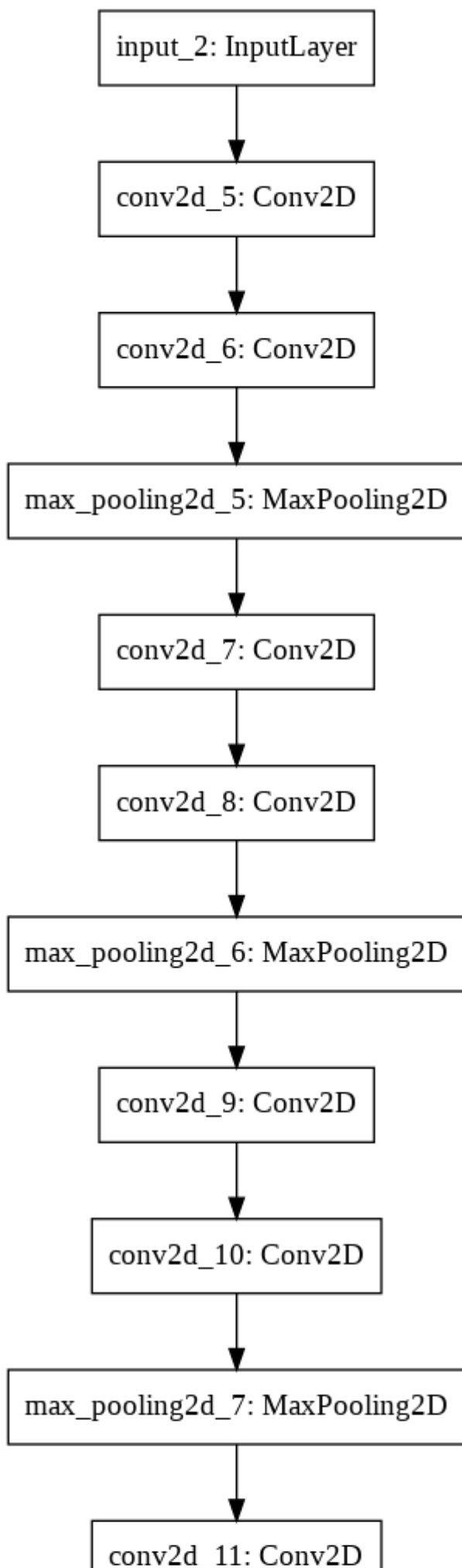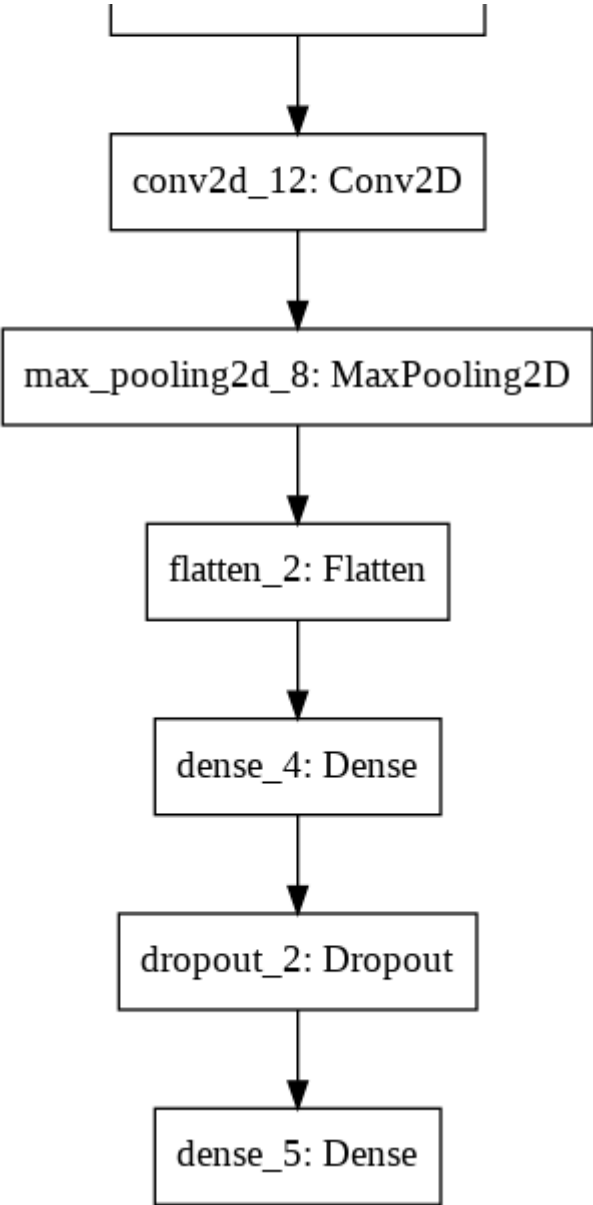
```python
#Data Generator
transform = ImageDataGenerator(rotation_range=10,
                                rescale = 1/255. ,
                                horizontal_flip=True,
                                zoom_range=[0.5,1.0])

validation_transform = ImageDataGenerator(rescale = 1/255.)

train_generator = DataGenerator(data_csv = training_info, img_dir='train',
                                batch_size=64, dim=(224,224), n_classes=2, transform=No
ne)

validation_generator = DataGenerator(data_csv = validation_info, img_dir='validation',
                                batch_size=64, dim=(224,224), n_classes=2,transform=Non
e)
# Train model on dataset
model2.compile(loss='binary_crossentropy',
            optimizer=optimizers.RMSprop(0.001),
            metrics=['acc'])
history2 = model2.fit_generator(generator=train_generator,
                    validation_data=validation_generator, epochs= 25)

model2.save("modeltunned.h5")
# plot loss during training
plt.subplot(211)
plt.title('Loss')
plt.plot(history2.history['loss'], label='train')
plt.plot(history2.history['val_loss'], label='validation')
plt.legend()
# plot accuracy during training
plt.subplot(212)
plt.title('Accuracy')
plt.plot(history2.history['acc'], label='train')
plt.plot(history2.history['val_acc'], label='validation')
plt.legend()
plt.show()
```

```
Epoch 1/25
375/375 [==============================] - 279s 744ms/step - loss: 0.5359
- acc: 0.7806 - val_loss: 0.3388 - val_acc: 0.7934
Epoch 2/25
375/375 [==============================] - 271s 722ms/step - loss: 0.4471
- acc: 0.8019 - val_loss: 0.6809 - val_acc: 0.7866
Epoch 3/25
375/375 [==============================] - 272s 726ms/step - loss: 0.4265
- acc: 0.8058 - val_loss: 0.4697 - val_acc: 0.8030
Epoch 4/25
375/375 [==============================] - 271s 723ms/step - loss: 0.4216
- acc: 0.8110 - val_loss: 0.5374 - val_acc: 0.8095
Epoch 5/25
375/375 [==============================] - 271s 721ms/step - loss: 0.4134
- acc: 0.8131 - val_loss: 0.3809 - val_acc: 0.8129
Epoch 6/25
375/375 [==============================] - 270s 719ms/step - loss: 0.4089
- acc: 0.8158 - val_loss: 0.3732 - val_acc: 0.8102
Epoch 7/25
375/375 [==============================] - 270s 720ms/step - loss: 0.4046
- acc: 0.8194 - val_loss: 0.3430 - val_acc: 0.8129
Epoch 8/25
375/375 [==============================] - 271s 721ms/step - loss: 0.4004
- acc: 0.8198 - val_loss: 0.2836 - val_acc: 0.8152
Epoch 9/25
375/375 [==============================] - 270s 719ms/step - loss: 0.3990
- acc: 0.8199 - val_loss: 0.4989 - val_acc: 0.8110
Epoch 10/25
375/375 [==============================] - 269s 718ms/step - loss: 0.3944
- acc: 0.8236 - val_loss: 0.3794 - val_acc: 0.8167
Epoch 11/25
375/375 [==============================] - 269s 717ms/step - loss: 0.3928
- acc: 0.8254 - val_loss: 0.4502 - val_acc: 0.8167
Epoch 12/25
375/375 [==============================] - 271s 722ms/step - loss: 0.3907
- acc: 0.8279 - val_loss: 0.3391 - val_acc: 0.8140
Epoch 13/25
375/375 [==============================] - 271s 724ms/step - loss: 0.3890
- acc: 0.8275 - val_loss: 0.3715 - val_acc: 0.8007
Epoch 14/25
375/375 [==============================] - 271s 722ms/step - loss: 0.3869
- acc: 0.8296 - val_loss: 0.4080 - val_acc: 0.8205
Epoch 15/25
375/375 [==============================] - 272s 725ms/step - loss: 0.3854
- acc: 0.8324 - val_loss: 0.3392 - val_acc: 0.8171
Epoch 16/25
375/375 [==============================] - 272s 725ms/step - loss: 0.3862
- acc: 0.8312 - val_loss: 0.4661 - val_acc: 0.8175
Epoch 17/25
375/375 [==============================] - 271s 723ms/step - loss: 0.3881
- acc: 0.8305 - val_loss: 0.4502 - val_acc: 0.8136
Epoch 18/25
375/375 [==============================] - 270s 721ms/step - loss: 0.3824
- acc: 0.8326 - val_loss: 0.3948 - val_acc: 0.7881
Epoch 19/25
375/375 [==============================] - 270s 719ms/step - loss: 0.3821
- acc: 0.8350 - val_loss: 0.3415 - val_acc: 0.7938
Epoch 20/25
375/375 [==============================] - 269s 717ms/step - loss: 0.3802
- acc: 0.8348 - val_loss: 0.4445 - val_acc: 0.8121
Epoch 21/25
```

```
375/375 [==============================] - 269s 717ms/step - loss: 0.3781
- acc: 0.8370 - val_loss: 0.3243 - val_acc: 0.8171
Epoch 22/25
375/375 [==============================] - 270s 719ms/step - loss: 0.3758
- acc: 0.8378 - val_loss: 0.5433 - val_acc: 0.8148
Epoch 23/25
375/375 [==============================] - 269s 717ms/step - loss: 0.3775
- acc: 0.8387 - val_loss: 0.5279 - val_acc: 0.8102
Epoch 24/25
375/375 [==============================] - 269s 716ms/step - loss: 0.3863
- acc: 0.8379 - val_loss: 0.4524 - val_acc: 0.8133
Epoch 25/25
375/375 [==============================] - 271s 722ms/step - loss: 0.3782
- acc: 0.8403 - val_loss: 0.4892 - val_acc: 0.8114
```
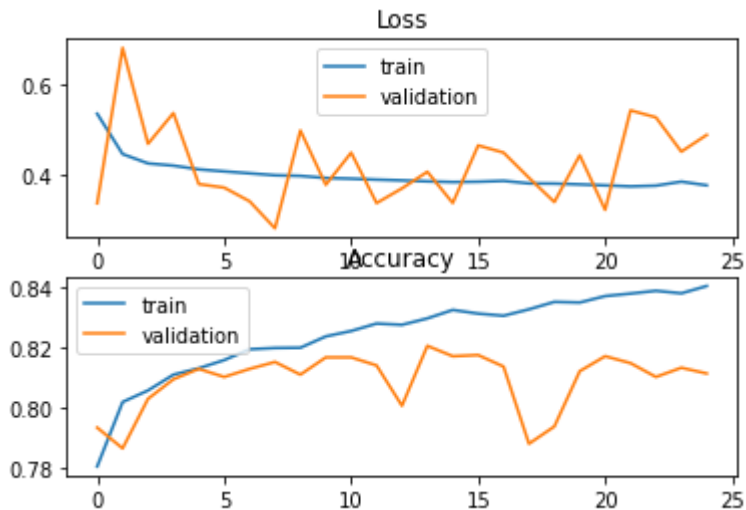
Let us train on Inceptionv3 architecture without transfer learning

In [0]:

```python
input_img = Input(shape=(224,224,1))
input_img_rgb = Concatenate()([input_img, input_img, input_img]) #Convert grayscale img
to shape RGB for the model
```

In [0]:

```python
import keras
from keras.applications.inception_v3 import InceptionV3
from keras.preprocessing.image import ImageDataGenerator
from keras.callbacks import ModelCheckpoint,EarlyStopping,ReduceLROnPlateau,Callback
```

In [0]:

```python
def get_model():
  base_model = InceptionV3(input_shape=(224,224,3),weights=None,include_top=False,input
_tensor= input_img_rgb)
  x = base_model.output
  x = keras.layers.GlobalAveragePooling2D()(x)
  x = keras.layers.Dense(1024, activation='relu')(x)
  x = keras.layers.BatchNormalization()(x)
  predictions = keras.layers.Dense(1, activation='sigmoid')(x)
  model3 = keras.models.Model(inputs=base_model.inputs, outputs=predictions)

  for layer in base_model.layers:
    layer.trainable = False

  model3.summary()
  return model3
```

In [0]:

```
model3 = get_model()
```

```
Model: "model_3"
_____
_____
Layer (type)                 Output Shape          Param #     Connected
to
======================================================================
==============================
input_3 (InputLayer)         (None, 224, 224, 1)   0
_____

_____
concatenate_1 (Concatenate)  (None, 224, 224, 3)   0           input_3
[0][0]
                                                               input_3

[0][0]
                                                               input_3

[0][0]
_____

_____
conv2d_13 (Conv2D)           (None, 111, 111, 32)  864         concatena
te_1[0][0]
_____

_____
batch_normalization_1 (BatchNor (None, 111, 111, 32) 96        conv2d_13
[0][0]
_____

_____
activation_1 (Activation)    (None, 111, 111, 32)  0           batch_nor
malization_1[0][0]
_____

_____
conv2d_14 (Conv2D)           (None, 109, 109, 32)  9216        activatio
n_1[0][0]
_____

_____
batch_normalization_2 (BatchNor (None, 109, 109, 32) 96        conv2d_14
[0][0]
_____

_____
activation_2 (Activation)    (None, 109, 109, 32)  0           batch_nor
malization_2[0][0]
_____

_____
conv2d_15 (Conv2D)           (None, 109, 109, 64)  18432       activatio
n_2[0][0]
_____

_____
batch_normalization_3 (BatchNor (None, 109, 109, 64) 192       conv2d_15
[0][0]
_____

_____
activation_3 (Activation)    (None, 109, 109, 64)  0           batch_nor
malization_3[0][0]
_____

_____
max_pooling2d_9 (MaxPooling2D)  (None, 54, 54, 64)   0         activatio
n_3[0][0]
_____

_____
conv2d_16 (Conv2D)           (None, 54, 54, 80)    5120        max_pooli
ng2d_9[0][0]
_____
```

batch_normalization_4 (BatchNor [0][0]	(None, 54, 54, 80)	240	conv2d_16
activation_4 (Activation) malization_4[0][0]	(None, 54, 54, 80)	0	batch_nor
conv2d_17 (Conv2D) n_4[0][0]	(None, 52, 52, 192)	138240	activatio
batch_normalization_5 (BatchNor [0][0]	(None, 52, 52, 192)	576	conv2d_17
activation_5 (Activation) malization_5[0][0]	(None, 52, 52, 192)	0	batch_nor
max_pooling2d_10 (MaxPooling2D) n_5[0][0]	(None, 25, 25, 192)	0	activatio
conv2d_21 (Conv2D) ng2d_10[0][0]	(None, 25, 25, 64)	12288	max_pooli
batch_normalization_9 (BatchNor [0][0]	(None, 25, 25, 64)	192	conv2d_21
activation_9 (Activation) malization_9[0][0]	(None, 25, 25, 64)	0	batch_nor
conv2d_19 (Conv2D) ng2d_10[0][0]	(None, 25, 25, 48)	9216	max_pooli
conv2d_22 (Conv2D) n_9[0][0]	(None, 25, 25, 96)	55296	activatio
batch_normalization_7 (BatchNor [0][0]	(None, 25, 25, 48)	144	conv2d_19
batch_normalization_10 (BatchNo [0][0]	(None, 25, 25, 96)	288	conv2d_22
activation_7 (Activation) malization_7[0][0]	(None, 25, 25, 48)	0	batch_nor
activation_10 (Activation) malization_10[0][0]	(None, 25, 25, 96)	0	batch_nor

Layer	Output Shape	Param	Connected to
average_pooling2d_2 (AveragePoo ng2d_10[0][0]	(None, 25, 25, 192)	0	max_pooli
conv2d_18 (Conv2D) ng2d_10[0][0]	(None, 25, 25, 64)	12288	max_pooli
conv2d_20 (Conv2D) n_7[0][0]	(None, 25, 25, 64)	76800	activatio
conv2d_23 (Conv2D) n_10[0][0]	(None, 25, 25, 96)	82944	activatio
conv2d_24 (Conv2D) ooling2d_2[0][0]	(None, 25, 25, 32)	6144	average_p
batch_normalization_6 (BatchNor [0][0]	(None, 25, 25, 64)	192	conv2d_18
batch_normalization_8 (BatchNor [0][0]	(None, 25, 25, 64)	192	conv2d_20
batch_normalization_11 (BatchNo [0][0]	(None, 25, 25, 96)	288	conv2d_23
batch_normalization_12 (BatchNo [0][0]	(None, 25, 25, 32)	96	conv2d_24
activation_6 (Activation) malization_6[0][0]	(None, 25, 25, 64)	0	batch_nor
activation_8 (Activation) malization_8[0][0]	(None, 25, 25, 64)	0	batch_nor
activation_11 (Activation) malization_11[0][0]	(None, 25, 25, 96)	0	batch_nor
activation_12 (Activation) malization_12[0][0]	(None, 25, 25, 32)	0	batch_nor
mixed0 (Concatenate) n_6[0][0]	(None, 25, 25, 256)	0	activatio
			activatio
n_8[0][0]			
			activatio
n_11[0][0]			
			activatio
n_12[0][0]			

```
_____
conv2d_28 (Conv2D)              (None, 25, 25, 64)    16384      mixed0[0]
[0]
_____
_____
batch_normalization_16 (BatchNo (None, 25, 25, 64)    192        conv2d_28
[0][0]
_____
_____
activation_16 (Activation)      (None, 25, 25, 64)    0          batch_nor
malization_16[0][0]
_____
_____
conv2d_26 (Conv2D)              (None, 25, 25, 48)    12288      mixed0[0]
[0]
_____
_____
conv2d_29 (Conv2D)              (None, 25, 25, 96)    55296      activatio
n_16[0][0]
_____
_____
batch_normalization_14 (BatchNo (None, 25, 25, 48)    144        conv2d_26
[0][0]
_____
_____
batch_normalization_17 (BatchNo (None, 25, 25, 96)    288        conv2d_29
[0][0]
_____
_____
activation_14 (Activation)      (None, 25, 25, 48)    0          batch_nor
malization_14[0][0]
_____
_____
activation_17 (Activation)      (None, 25, 25, 96)    0          batch_nor
malization_17[0][0]
_____
_____
average_pooling2d_3 (AveragePoo (None, 25, 25, 256)   0          mixed0[0]
[0]
_____
_____
conv2d_25 (Conv2D)              (None, 25, 25, 64)    16384      mixed0[0]
[0]
_____
_____
conv2d_27 (Conv2D)              (None, 25, 25, 64)    76800      activatio
n_14[0][0]
_____
_____
conv2d_30 (Conv2D)              (None, 25, 25, 96)    82944      activatio
n_17[0][0]
_____
_____
conv2d_31 (Conv2D)              (None, 25, 25, 64)    16384      average_p
ooling2d_3[0][0]
_____
_____
batch_normalization_13 (BatchNo (None, 25, 25, 64)    192        conv2d_25
[0][0]
_____
_____
```

batch_normalization_15 (BatchNo [0][0]	(None, 25, 25, 64)	192	conv2d_27
batch_normalization_18 (BatchNo [0][0]	(None, 25, 25, 96)	288	conv2d_30
batch_normalization_19 (BatchNo [0][0]	(None, 25, 25, 64)	192	conv2d_31
activation_13 (Activation) malization_13[0][0]	(None, 25, 25, 64)	0	batch_nor
activation_15 (Activation) malization_15[0][0]	(None, 25, 25, 64)	0	batch_nor
activation_18 (Activation) malization_18[0][0]	(None, 25, 25, 96)	0	batch_nor
activation_19 (Activation) malization_19[0][0]	(None, 25, 25, 64)	0	batch_nor
mixed1 (Concatenate) n_13[0][0]	(None, 25, 25, 288)	0	activatio
n_15[0][0]			activatio
n_18[0][0]			activatio
n_19[0][0]			activatio
conv2d_35 (Conv2D) [0]	(None, 25, 25, 64)	18432	mixed1[0]
batch_normalization_23 (BatchNo [0][0]	(None, 25, 25, 64)	192	conv2d_35
activation_23 (Activation) malization_23[0][0]	(None, 25, 25, 64)	0	batch_nor
conv2d_33 (Conv2D) [0]	(None, 25, 25, 48)	13824	mixed1[0]
conv2d_36 (Conv2D) n_23[0][0]	(None, 25, 25, 96)	55296	activatio
batch_normalization_21 (BatchNo [0][0]	(None, 25, 25, 48)	144	conv2d_33

batch_normalization_24 (BatchNo [0][0]	(None, 25, 25, 96)	288	conv2d_36
activation_21 (Activation) malization_21[0][0]	(None, 25, 25, 48)	0	batch_nor
activation_24 (Activation) malization_24[0][0]	(None, 25, 25, 96)	0	batch_nor
average_pooling2d_4 (AveragePoo [0]	(None, 25, 25, 288)	0	mixed1[0]
conv2d_32 (Conv2D) [0]	(None, 25, 25, 64)	18432	mixed1[0]
conv2d_34 (Conv2D) n_21[0][0]	(None, 25, 25, 64)	76800	activatio
conv2d_37 (Conv2D) n_24[0][0]	(None, 25, 25, 96)	82944	activatio
conv2d_38 (Conv2D) ooling2d_4[0][0]	(None, 25, 25, 64)	18432	average_p
batch_normalization_20 (BatchNo [0][0]	(None, 25, 25, 64)	192	conv2d_32
batch_normalization_22 (BatchNo [0][0]	(None, 25, 25, 64)	192	conv2d_34
batch_normalization_25 (BatchNo [0][0]	(None, 25, 25, 96)	288	conv2d_37
batch_normalization_26 (BatchNo [0][0]	(None, 25, 25, 64)	192	conv2d_38
activation_20 (Activation) malization_20[0][0]	(None, 25, 25, 64)	0	batch_nor
activation_22 (Activation) malization_22[0][0]	(None, 25, 25, 64)	0	batch_nor
activation_25 (Activation) malization_25[0][0]	(None, 25, 25, 96)	0	batch_nor

Layer	Output Shape	Param #	Connected to
activation_26 (Activation)	(None, 25, 25, 64)	0	batch_nor malization_26[0][0]
mixed2 (Concatenate)	(None, 25, 25, 288)	0	activatio n_20[0][0] activatio n_22[0][0] activatio n_25[0][0] activatio n_26[0][0]
conv2d_40 (Conv2D)	(None, 25, 25, 64)	18432	mixed2[0] [0]
batch_normalization_28 (BatchNo	(None, 25, 25, 64)	192	conv2d_40 [0][0]
activation_28 (Activation)	(None, 25, 25, 64)	0	batch_nor malization_28[0][0]
conv2d_41 (Conv2D)	(None, 25, 25, 96)	55296	activatio n_28[0][0]
batch_normalization_29 (BatchNo	(None, 25, 25, 96)	288	conv2d_41 [0][0]
activation_29 (Activation)	(None, 25, 25, 96)	0	batch_nor malization_29[0][0]
conv2d_39 (Conv2D)	(None, 12, 12, 384)	995328	mixed2[0] [0]
conv2d_42 (Conv2D)	(None, 12, 12, 96)	82944	activatio n_29[0][0]
batch_normalization_27 (BatchNo	(None, 12, 12, 384)	1152	conv2d_39 [0][0]
batch_normalization_30 (BatchNo	(None, 12, 12, 96)	288	conv2d_42 [0][0]
activation_27 (Activation)	(None, 12, 12, 384)	0	batch_nor malization_27[0][0]
activation_30 (Activation)	(None, 12, 12, 96)	0	batch_nor malization_30[0][0]

max_pooling2d_11 (MaxPooling2D)	(None, 12, 12, 288)	0	mixed2[0] [0]
mixed3 (Concatenate)	(None, 12, 12, 768)	0	activatio n_27[0][0]
			activatio n_30[0][0]
			max_pooli ng2d_11[0][0]
conv2d_47 (Conv2D)	(None, 12, 12, 128)	98304	mixed3[0] [0]
batch_normalization_35 (BatchNo	(None, 12, 12, 128)	384	conv2d_47 [0][0]
activation_35 (Activation)	(None, 12, 12, 128)	0	batch_nor malization_35[0][0]
conv2d_48 (Conv2D)	(None, 12, 12, 128)	114688	activatio n_35[0][0]
batch_normalization_36 (BatchNo	(None, 12, 12, 128)	384	conv2d_48 [0][0]
activation_36 (Activation)	(None, 12, 12, 128)	0	batch_nor malization_36[0][0]
conv2d_44 (Conv2D)	(None, 12, 12, 128)	98304	mixed3[0] [0]
conv2d_49 (Conv2D)	(None, 12, 12, 128)	114688	activatio n_36[0][0]
batch_normalization_32 (BatchNo	(None, 12, 12, 128)	384	conv2d_44 [0][0]
batch_normalization_37 (BatchNo	(None, 12, 12, 128)	384	conv2d_49 [0][0]
activation_32 (Activation)	(None, 12, 12, 128)	0	batch_nor malization_32[0][0]
activation_37 (Activation)	(None, 12, 12, 128)	0	batch_nor malization_37[0][0]

conv2d_45 (Conv2D)	(None, 12, 12, 128)	114688	activatio n_32[0][0]
conv2d_50 (Conv2D)	(None, 12, 12, 128)	114688	activatio n_37[0][0]
batch_normalization_33 (BatchNo	(None, 12, 12, 128)	384	conv2d_45 [0][0]
batch_normalization_38 (BatchNo	(None, 12, 12, 128)	384	conv2d_50 [0][0]
activation_33 (Activation)	(None, 12, 12, 128)	0	batch_nor malization_33[0][0]
activation_38 (Activation)	(None, 12, 12, 128)	0	batch_nor malization_38[0][0]
average_pooling2d_5 (AveragePoo	(None, 12, 12, 768)	0	mixed3[0] [0]
conv2d_43 (Conv2D)	(None, 12, 12, 192)	147456	mixed3[0] [0]
conv2d_46 (Conv2D)	(None, 12, 12, 192)	172032	activatio n_33[0][0]
conv2d_51 (Conv2D)	(None, 12, 12, 192)	172032	activatio n_38[0][0]
conv2d_52 (Conv2D)	(None, 12, 12, 192)	147456	average_p ooling2d_5[0][0]
batch_normalization_31 (BatchNo	(None, 12, 12, 192)	576	conv2d_43 [0][0]
batch_normalization_34 (BatchNo	(None, 12, 12, 192)	576	conv2d_46 [0][0]
batch_normalization_39 (BatchNo	(None, 12, 12, 192)	576	conv2d_51 [0][0]
batch_normalization_40 (BatchNo	(None, 12, 12, 192)	576	conv2d_52 [0][0]
activation_31 (Activation)	(None, 12, 12, 192)	0	batch_nor

malization_31[0][0]

_____

_____
activation_34 (Activation)   (None, 12, 12, 192)   0   batch_nor
malization_34[0][0]

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_____
activation_39 (Activation)   (None, 12, 12, 192)   0   batch_nor
malization_39[0][0]

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_____
activation_40 (Activation)   (None, 12, 12, 192)   0   batch_nor
malization_40[0][0]

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_____
mixed4 (Concatenate)   (None, 12, 12, 768)   0   activatio
n_31[0][0]

                                                                  activatio
n_34[0][0]

                                                                  activatio
n_39[0][0]

                                                                  activatio
n_40[0][0]

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_____
conv2d_57 (Conv2D)   (None, 12, 12, 160)   122880   mixed4[0]
[0]

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_____
batch_normalization_45 (BatchNo (None, 12, 12, 160)   480   conv2d_57
[0][0]

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_____
activation_45 (Activation)   (None, 12, 12, 160)   0   batch_nor
malization_45[0][0]

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_____
conv2d_58 (Conv2D)   (None, 12, 12, 160)   179200   activatio
n_45[0][0]

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_____
batch_normalization_46 (BatchNo (None, 12, 12, 160)   480   conv2d_58
[0][0]

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_____
activation_46 (Activation)   (None, 12, 12, 160)   0   batch_nor
malization_46[0][0]

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_____
conv2d_54 (Conv2D)   (None, 12, 12, 160)   122880   mixed4[0]
[0]

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_____
conv2d_59 (Conv2D)   (None, 12, 12, 160)   179200   activatio
n_46[0][0]

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_____
batch_normalization_42 (BatchNo (None, 12, 12, 160)   480   conv2d_54
[0][0]

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batch_normalization_47 (BatchNo [0][0]	(None, 12, 12, 160)	480	conv2d_59
activation_42 (Activation) malization_42[0][0]	(None, 12, 12, 160)	0	batch_nor
activation_47 (Activation) malization_47[0][0]	(None, 12, 12, 160)	0	batch_nor
conv2d_55 (Conv2D) n_42[0][0]	(None, 12, 12, 160)	179200	activatio
conv2d_60 (Conv2D) n_47[0][0]	(None, 12, 12, 160)	179200	activatio
batch_normalization_43 (BatchNo [0][0]	(None, 12, 12, 160)	480	conv2d_55
batch_normalization_48 (BatchNo [0][0]	(None, 12, 12, 160)	480	conv2d_60
activation_43 (Activation) malization_43[0][0]	(None, 12, 12, 160)	0	batch_nor
activation_48 (Activation) malization_48[0][0]	(None, 12, 12, 160)	0	batch_nor
average_pooling2d_6 (AveragePoo [0]	(None, 12, 12, 768)	0	mixed4[0]
conv2d_53 (Conv2D) [0]	(None, 12, 12, 192)	147456	mixed4[0]
conv2d_56 (Conv2D) n_43[0][0]	(None, 12, 12, 192)	215040	activatio
conv2d_61 (Conv2D) n_48[0][0]	(None, 12, 12, 192)	215040	activatio
conv2d_62 (Conv2D) ooling2d_6[0][0]	(None, 12, 12, 192)	147456	average_p
batch_normalization_41 (BatchNo [0][0]	(None, 12, 12, 192)	576	conv2d_53
batch_normalization_44 (BatchNo	(None, 12, 12, 192)	576	conv2d_56

[0][0]

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batch_normalization_49 (BatchNo (None, 12, 12, 192) 576   conv2d_61
[0][0]

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_____
batch_normalization_50 (BatchNo (None, 12, 12, 192) 576   conv2d_62
[0][0]

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_____
activation_41 (Activation)   (None, 12, 12, 192) 0   batch_nor
malization_41[0][0]

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_____
activation_44 (Activation)   (None, 12, 12, 192) 0   batch_nor
malization_44[0][0]

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_____
activation_49 (Activation)   (None, 12, 12, 192) 0   batch_nor
malization_49[0][0]

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_____
activation_50 (Activation)   (None, 12, 12, 192) 0   batch_nor
malization_50[0][0]

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_____
mixed5 (Concatenate)   (None, 12, 12, 768) 0   activatio
n_41[0][0]

                                                               activatio
n_44[0][0]

                                                               activatio
n_49[0][0]

                                                               activatio
n_50[0][0]

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conv2d_67 (Conv2D)   (None, 12, 12, 160) 122880   mixed5[0]
[0]

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_____
batch_normalization_55 (BatchNo (None, 12, 12, 160) 480   conv2d_67
[0][0]

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_____
activation_55 (Activation)   (None, 12, 12, 160) 0   batch_nor
malization_55[0][0]

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_____
conv2d_68 (Conv2D)   (None, 12, 12, 160) 179200   activatio
n_55[0][0]

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_____
batch_normalization_56 (BatchNo (None, 12, 12, 160) 480   conv2d_68
[0][0]

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_____
activation_56 (Activation)   (None, 12, 12, 160) 0   batch_nor
malization_56[0][0]

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conv2d_64 (Conv2D) [0]	(None, 12, 12, 160)	122880	mixed5[0]
conv2d_69 (Conv2D)	(None, 12, 12, 160)	179200	activatio n_56[0][0]
batch_normalization_52 (BatchNo [0][0]	(None, 12, 12, 160)	480	conv2d_64
batch_normalization_57 (BatchNo [0][0]	(None, 12, 12, 160)	480	conv2d_69
activation_52 (Activation) malization_52[0][0]	(None, 12, 12, 160)	0	batch_nor
activation_57 (Activation) malization_57[0][0]	(None, 12, 12, 160)	0	batch_nor
conv2d_65 (Conv2D) n_52[0][0]	(None, 12, 12, 160)	179200	activatio
conv2d_70 (Conv2D) n_57[0][0]	(None, 12, 12, 160)	179200	activatio
batch_normalization_53 (BatchNo [0][0]	(None, 12, 12, 160)	480	conv2d_65
batch_normalization_58 (BatchNo [0][0]	(None, 12, 12, 160)	480	conv2d_70
activation_53 (Activation) malization_53[0][0]	(None, 12, 12, 160)	0	batch_nor
activation_58 (Activation) malization_58[0][0]	(None, 12, 12, 160)	0	batch_nor
average_pooling2d_7 (AveragePoo [0]	(None, 12, 12, 768)	0	mixed5[0]
conv2d_63 (Conv2D) [0]	(None, 12, 12, 192)	147456	mixed5[0]
conv2d_66 (Conv2D) n_53[0][0]	(None, 12, 12, 192)	215040	activatio
conv2d_71 (Conv2D)	(None, 12, 12, 192)	215040	activatio

n_58[0][0]

Layer	Output Shape	Param #	Connected to
conv2d_72 (Conv2D)	(None, 12, 12, 192)	147456	average_p ooling2d_7[0][0]
batch_normalization_51 (BatchNo [0][0]	(None, 12, 12, 192)	576	conv2d_63
batch_normalization_54 (BatchNo [0][0]	(None, 12, 12, 192)	576	conv2d_66
batch_normalization_59 (BatchNo [0][0]	(None, 12, 12, 192)	576	conv2d_71
batch_normalization_60 (BatchNo [0][0]	(None, 12, 12, 192)	576	conv2d_72
activation_51 (Activation) malization_51[0][0]	(None, 12, 12, 192)	0	batch_nor
activation_54 (Activation) malization_54[0][0]	(None, 12, 12, 192)	0	batch_nor
activation_59 (Activation) malization_59[0][0]	(None, 12, 12, 192)	0	batch_nor
activation_60 (Activation) malization_60[0][0]	(None, 12, 12, 192)	0	batch_nor
mixed6 (Concatenate) n_51[0][0]	(None, 12, 12, 768)	0	activatio
n_54[0][0]			activatio
n_59[0][0]			activatio
n_60[0][0]			activatio
conv2d_77 (Conv2D) [0]	(None, 12, 12, 192)	147456	mixed6[0]
batch_normalization_65 (BatchNo [0][0]	(None, 12, 12, 192)	576	conv2d_77
activation_65 (Activation) malization_65[0][0]	(None, 12, 12, 192)	0	batch_nor

| conv2d_78 (Conv2D) | (None, 12, 12, 192) | 258048 | activatio |
| | | | n_65[0][0] |

| batch_normalization_66 (BatchNo | (None, 12, 12, 192) | 576 | conv2d_78 |
| [0][0] | | | |

| activation_66 (Activation) | (None, 12, 12, 192) | 0 | batch_nor |
| malization_66[0][0] | | | |

| conv2d_74 (Conv2D) | (None, 12, 12, 192) | 147456 | mixed6[0] |
| [0] | | | |

| conv2d_79 (Conv2D) | (None, 12, 12, 192) | 258048 | activatio |
| | | | n_66[0][0] |

| batch_normalization_62 (BatchNo | (None, 12, 12, 192) | 576 | conv2d_74 |
| [0][0] | | | |

| batch_normalization_67 (BatchNo | (None, 12, 12, 192) | 576 | conv2d_79 |
| [0][0] | | | |

| activation_62 (Activation) | (None, 12, 12, 192) | 0 | batch_nor |
| malization_62[0][0] | | | |

| activation_67 (Activation) | (None, 12, 12, 192) | 0 | batch_nor |
| malization_67[0][0] | | | |

| conv2d_75 (Conv2D) | (None, 12, 12, 192) | 258048 | activatio |
| | | | n_62[0][0] |

| conv2d_80 (Conv2D) | (None, 12, 12, 192) | 258048 | activatio |
| | | | n_67[0][0] |

| batch_normalization_63 (BatchNo | (None, 12, 12, 192) | 576 | conv2d_75 |
| [0][0] | | | |

| batch_normalization_68 (BatchNo | (None, 12, 12, 192) | 576 | conv2d_80 |
| [0][0] | | | |

| activation_63 (Activation) | (None, 12, 12, 192) | 0 | batch_nor |
| malization_63[0][0] | | | |

| activation_68 (Activation) | (None, 12, 12, 192) | 0 | batch_nor |
| malization_68[0][0] | | | |

| average_pooling2d_8 (AveragePoo | (None, 12, 12, 768) | 0 | mixed6[0] |

[0]

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| conv2d_73 (Conv2D) [0] | (None, 12, 12, 192) | 147456 | mixed6[0] |

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| conv2d_76 (Conv2D) n_63[0][0] | (None, 12, 12, 192) | 258048 | activatio |

_____

_____

| conv2d_81 (Conv2D) n_68[0][0] | (None, 12, 12, 192) | 258048 | activatio |

_____

_____

| conv2d_82 (Conv2D) ooling2d_8[0][0] | (None, 12, 12, 192) | 147456 | average_p |

_____

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| batch_normalization_61 (BatchNo [0][0] | (None, 12, 12, 192) | 576 | conv2d_73 |

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_____

| batch_normalization_64 (BatchNo [0][0] | (None, 12, 12, 192) | 576 | conv2d_76 |

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_____

| batch_normalization_69 (BatchNo [0][0] | (None, 12, 12, 192) | 576 | conv2d_81 |

_____

_____

| batch_normalization_70 (BatchNo [0][0] | (None, 12, 12, 192) | 576 | conv2d_82 |

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| activation_61 (Activation) malization_61[0][0] | (None, 12, 12, 192) | 0 | batch_nor |

_____

_____

| activation_64 (Activation) malization_64[0][0] | (None, 12, 12, 192) | 0 | batch_nor |

_____

_____

| activation_69 (Activation) malization_69[0][0] | (None, 12, 12, 192) | 0 | batch_nor |

_____

_____

| activation_70 (Activation) malization_70[0][0] | (None, 12, 12, 192) | 0 | batch_nor |

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mixed7 (Concatenate) n_61[0][0]	(None, 12, 12, 768)	0	activatio
			activatio
n_64[0][0]			
			activatio
n_69[0][0]			
			activatio
n_70[0][0]			

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Layer	Output Shape	Param #	Connected to
conv2d_85 (Conv2D)	(None, 12, 12, 192)	147456	mixed7[0][0]
batch_normalization_73 (BatchNo	(None, 12, 12, 192)	576	conv2d_85[0][0]
activation_73 (Activation)	(None, 12, 12, 192)	0	batch_normalization_73[0][0]
conv2d_86 (Conv2D)	(None, 12, 12, 192)	258048	activation_73[0][0]
batch_normalization_74 (BatchNo	(None, 12, 12, 192)	576	conv2d_86[0][0]
activation_74 (Activation)	(None, 12, 12, 192)	0	batch_normalization_74[0][0]
conv2d_83 (Conv2D)	(None, 12, 12, 192)	147456	mixed7[0][0]
conv2d_87 (Conv2D)	(None, 12, 12, 192)	258048	activation_74[0][0]
batch_normalization_71 (BatchNo	(None, 12, 12, 192)	576	conv2d_83[0][0]
batch_normalization_75 (BatchNo	(None, 12, 12, 192)	576	conv2d_87[0][0]
activation_71 (Activation)	(None, 12, 12, 192)	0	batch_normalization_71[0][0]
activation_75 (Activation)	(None, 12, 12, 192)	0	batch_normalization_75[0][0]
conv2d_84 (Conv2D)	(None, 5, 5, 320)	552960	activation_71[0][0]
conv2d_88 (Conv2D)	(None, 5, 5, 192)	331776	activation_75[0][0]
batch_normalization_72 (BatchNo	(None, 5, 5, 320)	960	conv2d_84[0][0]
batch_normalization_76 (BatchNo	(None, 5, 5, 192)	576	conv2d_88

[0][0]

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activation_72 (Activation)   (None, 5, 5, 320)   0   batch_nor
malization_72[0][0]

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activation_76 (Activation)   (None, 5, 5, 192)   0   batch_nor
malization_76[0][0]

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max_pooling2d_12 (MaxPooling2D) (None, 5, 5, 768)   0   mixed7[0]
[0]

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_____
mixed8 (Concatenate)   (None, 5, 5, 1280)   0   activatio
n_72[0][0]

                                                                  activatio

n_76[0][0]

                                                                  max_pooli

ng2d_12[0][0]

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conv2d_93 (Conv2D)   (None, 5, 5, 448)   573440   mixed8[0]
[0]

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_____
batch_normalization_81 (BatchNo (None, 5, 5, 448)   1344   conv2d_93
[0][0]

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_____
activation_81 (Activation)   (None, 5, 5, 448)   0   batch_nor
malization_81[0][0]

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_____
conv2d_90 (Conv2D)   (None, 5, 5, 384)   491520   mixed8[0]
[0]

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_____
conv2d_94 (Conv2D)   (None, 5, 5, 384)   1548288   activatio
n_81[0][0]

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_____
batch_normalization_78 (BatchNo (None, 5, 5, 384)   1152   conv2d_90
[0][0]

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batch_normalization_82 (BatchNo (None, 5, 5, 384)   1152   conv2d_94
[0][0]

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_____
activation_78 (Activation)   (None, 5, 5, 384)   0   batch_nor
malization_78[0][0]

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_____
activation_82 (Activation)   (None, 5, 5, 384)   0   batch_nor
malization_82[0][0]

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_____
conv2d_91 (Conv2D)   (None, 5, 5, 384)   442368   activatio
n_78[0][0]

conv2d_92 (Conv2D)	(None, 5, 5, 384)	442368	activatio n_78[0][0]
conv2d_95 (Conv2D)	(None, 5, 5, 384)	442368	activatio n_82[0][0]
conv2d_96 (Conv2D)	(None, 5, 5, 384)	442368	activatio n_82[0][0]
average_pooling2d_9 (AveragePoo	(None, 5, 5, 1280)	0	mixed8[0] [0]
conv2d_89 (Conv2D)	(None, 5, 5, 320)	409600	mixed8[0] [0]
batch_normalization_79 (BatchNo	(None, 5, 5, 384)	1152	conv2d_91 [0][0]
batch_normalization_80 (BatchNo	(None, 5, 5, 384)	1152	conv2d_92 [0][0]
batch_normalization_83 (BatchNo	(None, 5, 5, 384)	1152	conv2d_95 [0][0]
batch_normalization_84 (BatchNo	(None, 5, 5, 384)	1152	conv2d_96 [0][0]
conv2d_97 (Conv2D)	(None, 5, 5, 192)	245760	average_p ooling2d_9[0][0]
batch_normalization_77 (BatchNo	(None, 5, 5, 320)	960	conv2d_89 [0][0]
activation_79 (Activation)	(None, 5, 5, 384)	0	batch_nor malization_79[0][0]
activation_80 (Activation)	(None, 5, 5, 384)	0	batch_nor malization_80[0][0]
activation_83 (Activation)	(None, 5, 5, 384)	0	batch_nor malization_83[0][0]
activation_84 (Activation)	(None, 5, 5, 384)	0	batch_nor malization_84[0][0]

batch_normalization_85 (BatchNo [0][0]	(None, 5, 5, 192)	576	conv2d_97
activation_77 (Activation) malization_77[0][0]	(None, 5, 5, 320)	0	batch_nor
mixed9_0 (Concatenate) n_79[0][0]	(None, 5, 5, 768)	0	activatio
			activatio
n_80[0][0]			
concatenate_2 (Concatenate) n_83[0][0]	(None, 5, 5, 768)	0	activatio
			activatio
n_84[0][0]			
activation_85 (Activation) malization_85[0][0]	(None, 5, 5, 192)	0	batch_nor
mixed9 (Concatenate) n_77[0][0]	(None, 5, 5, 2048)	0	activatio
			mixed9_0
[0][0]			
			concatena
te_2[0][0]			
			activatio
n_85[0][0]			
conv2d_102 (Conv2D) [0]	(None, 5, 5, 448)	917504	mixed9[0]
batch_normalization_90 (BatchNo 2[0][0]	(None, 5, 5, 448)	1344	conv2d_10
activation_90 (Activation) malization_90[0][0]	(None, 5, 5, 448)	0	batch_nor
conv2d_99 (Conv2D) [0]	(None, 5, 5, 384)	786432	mixed9[0]
conv2d_103 (Conv2D) n_90[0][0]	(None, 5, 5, 384)	1548288	activatio
batch_normalization_87 (BatchNo [0][0]	(None, 5, 5, 384)	1152	conv2d_99
batch_normalization_91 (BatchNo 3[0][0]	(None, 5, 5, 384)	1152	conv2d_10

activation_87 (Activation)	(None, 5, 5, 384)	0	batch_nor malization_87[0][0]
activation_91 (Activation)	(None, 5, 5, 384)	0	batch_nor malization_91[0][0]
conv2d_100 (Conv2D)	(None, 5, 5, 384)	442368	activatio n_87[0][0]
conv2d_101 (Conv2D)	(None, 5, 5, 384)	442368	activatio n_87[0][0]
conv2d_104 (Conv2D)	(None, 5, 5, 384)	442368	activatio n_91[0][0]
conv2d_105 (Conv2D)	(None, 5, 5, 384)	442368	activatio n_91[0][0]
average_pooling2d_10 (AveragePo	(None, 5, 5, 2048)	0	mixed9[0] [0]
conv2d_98 (Conv2D)	(None, 5, 5, 320)	655360	mixed9[0] [0]
batch_normalization_88 (BatchNo	(None, 5, 5, 384)	1152	conv2d_10 0[0][0]
batch_normalization_89 (BatchNo	(None, 5, 5, 384)	1152	conv2d_10 1[0][0]
batch_normalization_92 (BatchNo	(None, 5, 5, 384)	1152	conv2d_10 4[0][0]
batch_normalization_93 (BatchNo	(None, 5, 5, 384)	1152	conv2d_10 5[0][0]
conv2d_106 (Conv2D)	(None, 5, 5, 192)	393216	average_p ooling2d_10[0][0]
batch_normalization_86 (BatchNo	(None, 5, 5, 320)	960	conv2d_98 [0][0]
activation_88 (Activation)	(None, 5, 5, 384)	0	batch_nor malization_88[0][0]

Layer	Output Shape	Param #	Connected to
activation_89 (Activation)	(None, 5, 5, 384)	0	batch_nor malization_89[0][0]
activation_92 (Activation)	(None, 5, 5, 384)	0	batch_nor malization_92[0][0]
activation_93 (Activation)	(None, 5, 5, 384)	0	batch_nor malization_93[0][0]
batch_normalization_94 (BatchNo	(None, 5, 5, 192)	576	conv2d_10 6[0][0]
activation_86 (Activation)	(None, 5, 5, 320)	0	batch_nor malization_86[0][0]
mixed9_1 (Concatenate)	(None, 5, 5, 768)	0	activatio n_88[0][0] activatio n_89[0][0]
concatenate_3 (Concatenate)	(None, 5, 5, 768)	0	activatio n_92[0][0] activatio n_93[0][0]
activation_94 (Activation)	(None, 5, 5, 192)	0	batch_nor malization_94[0][0]
mixed10 (Concatenate)	(None, 5, 5, 2048)	0	activatio n_86[0][0] mixed9_1 [0][0] concatena te_3[0][0] activatio n_94[0][0]
global_average_pooling2d_1 (Glo	(None, 2048)	0	mixed10 [0][0]
dense_6 (Dense)	(None, 1024)	2098176	global_av erage_pooling2d_1[0][0]
batch_normalization_95 (BatchNo	(None, 1024)	4096	dense_6 [0][0]
dense_7 (Dense)	(None, 1)	1025	batch_nor malization_95[0][0]

```
===========================================================================
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Total params: 23,906,081
Trainable params: 2,101,249
Non-trainable params: 21,804,832
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In [0]:

```python
from keras.optimizers import Adam,rmsprop
optimizer=Adam()
# Train model on dataset
model3.compile(loss='binary_crossentropy',
               optimizer=optimizers.Adam(),
               metrics=['acc'])


checkpointer = ModelCheckpoint(filepath='/content/drive/My Drive/projectwork/data/incep
tion.hdf5', monitor='val_loss',mode='min', verbose=1,save_weights_only=True, save_best_
only=True)

stop = EarlyStopping(
    monitor='val_loss',
    patience=5,
    verbose=1,
    restore_best_weights=True)

reduce_lr = ReduceLROnPlateau(
    monitor='val_loss',
    patience=5,
    cooldown=2,
    min_lr=10e-10)
```

In [0]:

```
history3 = model3.fit_generator(generator=train_generator,

                validation_data=validation_generator,use_multiprocessing =True, epoch
s= 25, steps_per_epoch= len(train_generator)+10,callbacks=[checkpointer,reduce_lr, stop
])
```

```
Epoch 1/25
385/385 [==============================] - 294s 765ms/step - loss: 0.4862
- acc: 0.7757 - val_loss: 0.6155 - val_acc: 0.7725

Epoch 00001: val_loss improved from inf to 0.61549, saving model to /conte
nt/drive/My Drive/projectwork/data/inception.hdf5
Epoch 2/25
385/385 [==============================] - 284s 739ms/step - loss: 0.4650
- acc: 0.7828 - val_loss: 0.5234 - val_acc: 0.7702

Epoch 00002: val_loss improved from 0.61549 to 0.52336, saving model to /c
ontent/drive/My Drive/projectwork/data/inception.hdf5
Epoch 3/25
385/385 [==============================] - 287s 745ms/step - loss: 0.4572
- acc: 0.7887 - val_loss: 0.6140 - val_acc: 0.7736

Epoch 00003: val_loss did not improve from 0.52336
Epoch 4/25
385/385 [==============================] - 288s 749ms/step - loss: 0.4572
- acc: 0.7881 - val_loss: 0.6693 - val_acc: 0.7710

Epoch 00004: val_loss did not improve from 0.52336
Epoch 5/25
385/385 [==============================] - 290s 752ms/step - loss: 0.4584
- acc: 0.7893 - val_loss: 0.5046 - val_acc: 0.7729

Epoch 00005: val_loss improved from 0.52336 to 0.50461, saving model to /c
ontent/drive/My Drive/projectwork/data/inception.hdf5
Epoch 6/25
385/385 [==============================] - 288s 748ms/step - loss: 0.4584
- acc: 0.7869 - val_loss: 0.6035 - val_acc: 0.7725

Epoch 00006: val_loss did not improve from 0.50461
Epoch 7/25
385/385 [==============================] - 288s 747ms/step - loss: 0.4516
- acc: 0.7907 - val_loss: 0.5021 - val_acc: 0.7725

Epoch 00007: val_loss improved from 0.50461 to 0.50206, saving model to /c
ontent/drive/My Drive/projectwork/data/inception.hdf5
Epoch 8/25
385/385 [==============================] - 287s 744ms/step - loss: 0.4551
- acc: 0.7877 - val_loss: 0.4726 - val_acc: 0.7725

Epoch 00008: val_loss improved from 0.50206 to 0.47260, saving model to /c
ontent/drive/My Drive/projectwork/data/inception.hdf5
Epoch 9/25
385/385 [==============================] - 286s 743ms/step - loss: 0.4576
- acc: 0.7896 - val_loss: 0.5200 - val_acc: 0.7721

Epoch 00009: val_loss did not improve from 0.47260
Epoch 10/25
385/385 [==============================] - 287s 745ms/step - loss: 0.4508
- acc: 0.7916 - val_loss: 0.6488 - val_acc: 0.7721

Epoch 00010: val_loss did not improve from 0.47260
Epoch 11/25
385/385 [==============================] - 286s 743ms/step - loss: 0.4504
- acc: 0.7921 - val_loss: 0.4071 - val_acc: 0.7717

Epoch 00011: val_loss improved from 0.47260 to 0.40707, saving model to /c
ontent/drive/My Drive/projectwork/data/inception.hdf5
```

```
Epoch 12/25
385/385 [==============================] - 286s 742ms/step - loss: 0.4542
- acc: 0.7924 - val_loss: 0.5671 - val_acc: 0.7702

Epoch 00012: val_loss did not improve from 0.40707
Epoch 13/25
385/385 [==============================] - 288s 748ms/step - loss: 0.4531
- acc: 0.7918 - val_loss: 0.4736 - val_acc: 0.7706

Epoch 00013: val_loss did not improve from 0.40707
Epoch 14/25
385/385 [==============================] - 287s 747ms/step - loss: 0.4486
- acc: 0.7933 - val_loss: 0.6651 - val_acc: 0.7710

Epoch 00014: val_loss did not improve from 0.40707
Epoch 15/25
385/385 [==============================] - 287s 746ms/step - loss: 0.4486
- acc: 0.7925 - val_loss: 0.4476 - val_acc: 0.7729

Epoch 00015: val_loss did not improve from 0.40707
Epoch 16/25
385/385 [==============================] - 287s 746ms/step - loss: 0.4488
- acc: 0.7915 - val_loss: 0.5454 - val_acc: 0.7702

Epoch 00016: val_loss did not improve from 0.40707
Restoring model weights from the end of the best epoch
Epoch 00016: early stopping
```

In [0]:

```python
model3.save("modelinception.h5")
# plot loss during training
plt.subplot(211)
plt.title('Loss')
plt.plot(history2.history['loss'], label='train')
plt.plot(history2.history['val_loss'], label='validation')
plt.legend()
# plot accuracy during training
plt.subplot(212)
plt.title('Accuracy')
plt.plot(history2.history['acc'], label='train')
plt.plot(history2.history['val_acc'], label='validation')
plt.legend()
plt.show()
```
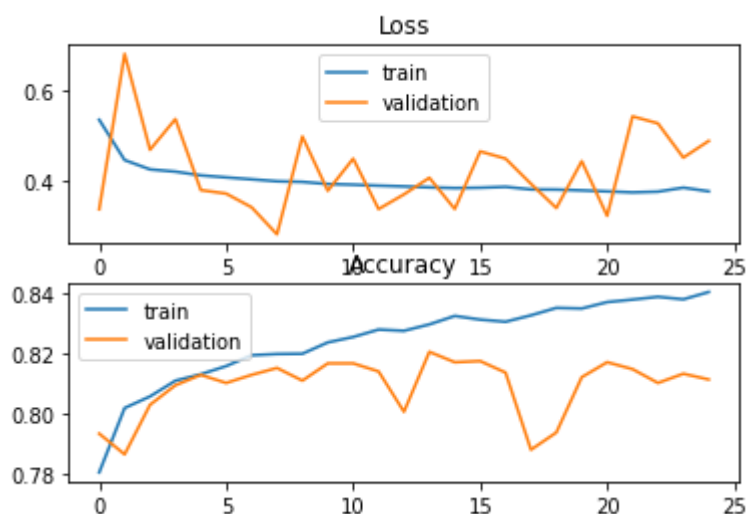

Let us train on Vgg16 architecture without using any transfer learning

In [0]:

```python
input_img = Input(shape=(224,224,1))
input_img_rgb = Concatenate()([input_img, input_img, input_img]) #Convert grayscale img
to shape RGB for the model
```

In [0]:

```python
from keras.models import Model
```

In [0]:

```python
from sklearn.utils import class_weight
from keras.models import load_model
from keras.applications import vgg16
from keras.layers import MaxPooling2D, Dropout, Flatten, BatchNormalization, Dense
from keras import regularizers
from keras.applications.densenet import  preprocess_input
```

In [0]:

```python
def get_model():
  base = vgg16.VGG16(weights=None, include_top=False, input_shape=(224,224,3),input_ten
sor= input_img_rgb)
  x = base.output
  x = MaxPooling2D()(x)
  x = Flatten()(x)
  x = Dense(256, activation='relu', activity_regularizer=regularizers.l2(10e-8))(x)
  x = Dropout(.25)(x)
  x = Dense(512, activation = 'relu')(x)
  x = Dropout(.25)(x)
  pred = Dense(1, activation='sigmoid')(x)

  model4=Model(inputs=base.input, outputs=pred)

  for layer in base.layers:
    layer.trainable = False

  model4.summary()
  return model4
```

In [0]:

```
model4 = get_model()
```

```
Model: "model_4"


_____

_____
Layer (type)                 Output Shape         Param #    Connect
ed to
=========================================================================

================================
input_4 (InputLayer)         (None, 224, 224, 1)  0


_____
concatenate_4 (Concatenate)  (None, 224, 224, 3)  0          input_4
[0][0]
                                                             input_4

[0][0]
                                                             input_4

[0][0]
_____
block1_conv1 (Conv2D)        (None, 224, 224, 64) 1792       concate
nate_4[0][0]
_____
block1_conv2 (Conv2D)        (None, 224, 224, 64) 36928      block1_
conv1[0][0]
_____
block1_pool (MaxPooling2D)   (None, 112, 112, 64) 0          block1_
conv2[0][0]
_____
block2_conv1 (Conv2D)        (None, 112, 112, 128 73856      block1_
pool[0][0]
_____
block2_conv2 (Conv2D)        (None, 112, 112, 128 147584     block2_
conv1[0][0]
_____
block2_pool (MaxPooling2D)   (None, 56, 56, 128)  0          block2_
conv2[0][0]
_____
block3_conv1 (Conv2D)        (None, 56, 56, 256)  295168     block2_
pool[0][0]
_____
block3_conv2 (Conv2D)        (None, 56, 56, 256)  590080     block3_
conv1[0][0]
_____
block3_conv3 (Conv2D)        (None, 56, 56, 256)  590080     block3_
conv2[0][0]
_____
block3_pool (MaxPooling2D)   (None, 28, 28, 256)  0          block3_
conv3[0][0]
_____
block4_conv1 (Conv2D)        (None, 28, 28, 512)  1180160    block3_
pool[0][0]
_____
```

```
_____
block4_conv2 (Conv2D)           (None, 28, 28, 512)   2359808        block4_
conv1[0][0]
_____

_____
block4_conv3 (Conv2D)           (None, 28, 28, 512)   2359808        block4_
conv2[0][0]
_____

_____
block4_pool (MaxPooling2D)      (None, 14, 14, 512)   0              block4_
conv3[0][0]
_____

_____
block5_conv1 (Conv2D)           (None, 14, 14, 512)   2359808        block4_
pool[0][0]
_____

_____
block5_conv2 (Conv2D)           (None, 14, 14, 512)   2359808        block5_
conv1[0][0]
_____

_____
block5_conv3 (Conv2D)           (None, 14, 14, 512)   2359808        block5_
conv2[0][0]
_____

_____
block5_pool (MaxPooling2D)      (None, 7, 7, 512)     0              block5_
conv3[0][0]
_____

_____
max_pooling2d_13 (MaxPooling2D) (None, 3, 3, 512)     0              block5_
pool[0][0]
_____

_____
flatten_3 (Flatten)             (None, 4608)          0              max_poo
ling2d_13[0][0]
_____

_____
dense_8 (Dense)                 (None, 256)           1179904        flatten
_3[0][0]
_____

_____
dropout_3 (Dropout)             (None, 256)           0              dense_8
[0][0]
_____

_____
dense_9 (Dense)                 (None, 512)           131584         dropout
_3[0][0]
_____

_____
dropout_4 (Dropout)             (None, 512)           0              dense_9
[0][0]
_____

_____
dense_10 (Dense)                (None, 1)             513            dropout
_4[0][0]
========================================================================
========================
Total params: 16,026,689
Trainable params: 1,312,001
Non-trainable params: 14,714,688
```

In [0]:

```python
from keras.optimizers import Adam,rmsprop
optimizer=Adam()
# Train model on dataset
model4.compile(loss='binary_crossentropy',
               optimizer=optimizers.Adam(),
               metrics=['acc'])


checkpointer = ModelCheckpoint(filepath='/content/drive/My Drive/projectwork/data/vgg16
w.hdf5', monitor='val_loss',mode='min', verbose=1,save_weights_only=True, save_best_onl
y=True)

stop = EarlyStopping(
    monitor='val_loss',
    patience=5,
    verbose=1,
    restore_best_weights=True)

reduce_lr = ReduceLROnPlateau(
    monitor='val_loss',
    patience=5,
    cooldown=2,
    min_lr=10e-10)
```

In [0]:

```
history4 = model4.fit_generator(generator=train_generator,

                    validation_data=validation_generator,use_multiprocessing =True, epoch
s= 25, steps_per_epoch= len(train_generator)+10,callbacks=[checkpointer,reduce_lr, stop
])
```

Epoch 1/25
385/385 [==============================] - 313s 814ms/step - loss: 0.5000
- acc: 0.7745 - val_loss: 0.4569 - val_acc: 0.7771

Epoch 00001: val_loss improved from inf to 0.45688, saving model to /conte
nt/drive/My Drive/projectwork/data/vgg16w.hdf5
Epoch 2/25
385/385 [==============================] - 302s 784ms/step - loss: 0.4479
- acc: 0.7872 - val_loss: 0.4478 - val_acc: 0.7900

Epoch 00002: val_loss improved from 0.45688 to 0.44779, saving model to /c
ontent/drive/My Drive/projectwork/data/vgg16w.hdf5
Epoch 3/25
385/385 [==============================] - 302s 783ms/step - loss: 0.4423
- acc: 0.7933 - val_loss: 0.4666 - val_acc: 0.7946

Epoch 00003: val_loss did not improve from 0.44779
Epoch 4/25
385/385 [==============================] - 301s 783ms/step - loss: 0.4347
- acc: 0.7978 - val_loss: 0.3648 - val_acc: 0.7915

Epoch 00004: val_loss improved from 0.44779 to 0.36481, saving model to /c
ontent/drive/My Drive/projectwork/data/vgg16w.hdf5
Epoch 5/25
385/385 [==============================] - 302s 784ms/step - loss: 0.4308
- acc: 0.7991 - val_loss: 0.6061 - val_acc: 0.7950

Epoch 00005: val_loss did not improve from 0.36481
Epoch 6/25
385/385 [==============================] - 302s 785ms/step - loss: 0.4298
- acc: 0.7995 - val_loss: 0.4818 - val_acc: 0.7942

Epoch 00006: val_loss did not improve from 0.36481
Epoch 7/25
385/385 [==============================] - 302s 785ms/step - loss: 0.4308
- acc: 0.8007 - val_loss: 0.3804 - val_acc: 0.7950

Epoch 00007: val_loss did not improve from 0.36481
Epoch 8/25
385/385 [==============================] - 302s 786ms/step - loss: 0.4264
- acc: 0.8021 - val_loss: 0.5116 - val_acc: 0.7912

Epoch 00008: val_loss did not improve from 0.36481
Epoch 9/25
385/385 [==============================] - 304s 789ms/step - loss: 0.4248
- acc: 0.8026 - val_loss: 0.3341 - val_acc: 0.7973

Epoch 00009: val_loss improved from 0.36481 to 0.33407, saving model to /c
ontent/drive/My Drive/projectwork/data/vgg16w.hdf5
Epoch 10/25
385/385 [==============================] - 304s 788ms/step - loss: 0.4299
- acc: 0.8014 - val_loss: 0.4659 - val_acc: 0.7942

Epoch 00010: val_loss did not improve from 0.33407
Epoch 11/25
385/385 [==============================] - 302s 784ms/step - loss: 0.4202
- acc: 0.8056 - val_loss: 0.4919 - val_acc: 0.7919

Epoch 00011: val_loss did not improve from 0.33407
Epoch 12/25
385/385 [==============================] - 301s 781ms/step - loss: 0.4261

```
  - acc: 0.8025 - val_loss: 0.4531 - val_acc: 0.7965


Epoch 00012: val_loss did not improve from 0.33407
Epoch 13/25
385/385 [==============================] - 300s 780ms/step - loss: 0.4254
  - acc: 0.8011 - val_loss: 0.5034 - val_acc: 0.8018


Epoch 00013: val_loss did not improve from 0.33407
Epoch 14/25
385/385 [==============================] - 300s 780ms/step - loss: 0.4199
  - acc: 0.8049 - val_loss: 0.3886 - val_acc: 0.7893


Epoch 00014: val_loss did not improve from 0.33407
Restoring model weights from the end of the best epoch
Epoch 00014: early stopping
```

In [0]:

```python
model4.save("modelvgg.h5")
# plot loss during training
plt.subplot(211)
plt.title('Loss')
plt.plot(history2.history['loss'], label='train')
plt.plot(history2.history['val_loss'], label='validation')
plt.legend()
# plot accuracy during training
plt.subplot(212)
plt.title('Accuracy')
plt.plot(history2.history['acc'], label='train')
plt.plot(history2.history['val_acc'], label='validation')
plt.legend()
plt.show()
```