

We began by downloading the data from Kaggle to Google Colab using an API. This marked a change in our data ingestion method, as our previous method of uploading data from our desktops took significantly longer. The zipped folder included zipped train and test folders and a sample submission. We unzipped all three folders. The train folder included 25,000 images of cats or dogs, and each image had a label as part of its filename. The test folder included 12,500 images with only a numeric ID. and finished the data ingestion process by writing the data into a dataframe with two columns: filename, which included the jpg files, and category, which was a 1 if the filename began with 'dog' and 0 if it began with 'cat.'

During our EDA, we found that there were an equal number of dogs and cats in the dataset, 12,500 each. We observed the sample data and saw that the images were color images of cats and dogs with varying dimensions, though the images were roughly square and ranged from about 250x250 pixels to 500x500 pixels. We prepared our data by replacing the '1' and '0' category values with 'dog' and 'cat,' respectively. We also sorted the data by category, so the cats appeared on the top and the dogs appeared on the bottom. We then created a subset of the training data by selecting the first and last 13,000 images in the dataframe (26,000 images total). This smaller dataset allowed us to train our models quicker. We used the full dataset to retrain the model that predicted the original dataset with the highest accuracy.

Converting the color images into dataframes for upload was the most difficult challenge my group faced this week. We ultimately decided to use the ImageDataGenerator module from TensorFlow (Keras) to convert the jpg files into arrays. We also used the `flow_from_dataframe()` function to reduce the RAM requirements. ImageDataGenerator allows for multiple transformations and augmentations to the data. Our generators all rescale the data by dividing each pixel by 255 (new values were between 0 and 1) and reducing the image size to 128 by 128. The generators are built directly into our models.

We trained three different models using our testing data. All three initial models were trained over 10 epochs and have the same number and order of layers and the following parameters: max_dropout of 0.3 and the optimizer 'rmsprop.' We adjusted max_neurons, which represents the max number of filters a layer will use. Our first model had max_neurons of 64. It ultimately had an accuracy of 0.725, making it our best model. Our second model had max_neurons of 128. It had an accuracy of 0.698, making it our worst model. Our third model had max_neurons of 256 and had an accuracy of 0.723, making it our second-best model.

We trained our final model using the full dataset of 25,000 images, and with max_neurons set to 64. Unfortunately, we only ran the epoch for three iterations, as our models timed out on Google Colab after six hours (nine of ten epochs) when using 10 epochs, which we weren't expecting. Due to the time to complete each epoch (~30 min), we were unable to train the model used for Kaggle prediction to the extent we would have liked before the deadline. This "fast run" model with 3 epochs took roughly 25 minutes to train. The updated model had an accuracy of 0.744 and loss of 0.504. When using the model to predict the Kaggle test data, the model received a Kaggle score of 8.75.

Obviously, our model does not work in its current state, performing as expected with the training data and poorly with the test data. Future areas for exploration include additional hyperparameter tuning, as there are numerous aspects of each model (including the layers within), where parameters can be more individually adjusted. Our initial model also overfit, so we introduced a parameter for tune max_dropouts, which prevents overfitting by randomly disconnecting a percentage of neurons in the next layer. We would like to further adjust this and the optimizers, which adjust additional attributes such as learning rate and weights. Our final code has these blocks commented out, because we wanted to primarily compare the number of neurons. We could also generate additional, altered data to better train the models, but this dataset was already too large. You can see ROC and Precision / Recall graphs for all of our models in the index.

Index:

YOUR RECENT SUBMISSION



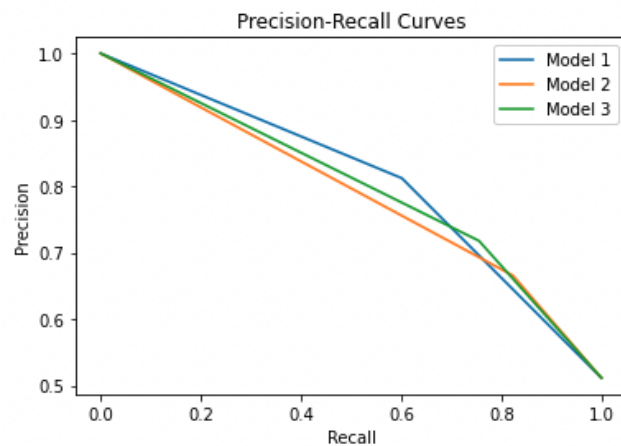
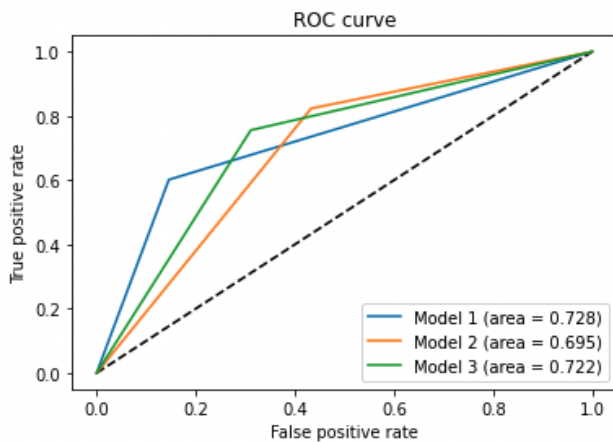
submission (1).csv

Submitted by ZachWat · Submitted just now

Score: 8.75076

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	Model	Max Neurons	Training Accuracy	Testing Accuracy
0	Model 1	64	0.887981	0.725000
1	Model 2	128	0.894231	0.698077
2	Model 3	256	0.942788	0.723077



Intro

Links

Canvas: https://canvas.northwestern.edu/courses/167719/assignments/1078610?module_item_id=2319284
(https://canvas.northwestern.edu/courses/167719/assignments/1078610?module_item_id=2319284)

Kaggle: <https://www.kaggle.com/c/dogs-vs-cats-redux-kernels-edition> (<https://www.kaggle.com/c/dogs-vs-cats-redux-kernels-edition>)

Modules

```
In [2]: #For data manipulation and visualization
from google.colab import files

import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
from matplotlib.pyplot import figure
from matplotlib.pyplot import subplots_adjust
import seaborn as sns
import random

from sklearn.model_selection import train_test_split, cross_val_score
from sklearn.ensemble import RandomForestClassifier
from sklearn.decomposition import PCA
from sklearn.metrics import accuracy_score, f1_score, classification_report, c
onfusion_matrix, precision_score, recall_score, precision_recall_curve
from sklearn.preprocessing import StandardScaler
from sklearn.cluster import MiniBatchKMeans
from sklearn import cluster

from datetime import datetime

from os import makedirs
from os import listdir
from shutil import copyfile
from random import seed
from random import random

import tensorflow as tf
import keras

from tensorflow.keras.models import Sequential
from tensorflow.keras.layers import Conv2D, MaxPooling2D, Dropout, Flatten, De
nse, Activation, BatchNormalization
from tensorflow.keras.preprocessing.image import ImageDataGenerator, img_to_ar
ray, load_img
from keras import backend as K

import os, cv2, re, random
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
from PIL import Image

import pathlib

# Disable warning
import warnings
warnings.filterwarnings('ignore')
```

Data Ingestion

Kaggle Upload

```
In [3]: from google.colab import files

uploaded = files.upload()

for fn in uploaded.keys():
    print('User uploaded file "{name}" with length {length} bytes'.format(
        name=fn, length=len(uploaded[fn])))

# Then move kaggle.json into the folder where the API expects to find it.
!mkdir -p ~/.kaggle/ && mv kaggle.json ~/.kaggle/ && chmod 600 ~/.kaggle/kaggl
e.json
```

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.

Saving kaggle.json to kaggle.json
User uploaded file "kaggle.json" with length 63 bytes

```
In [4]: %%capture
!kaggle competitions download -c dogs-vs-cats-redux-kernels-edition
```

Kaggle Data Prep

```
In [5]: !unzip 'dogs-vs-cats-redux-kernels-edition.zip'
```

Archive: dogs-vs-cats-redux-kernels-edition.zip
 inflating: sample_submission.csv
 inflating: test.zip
 inflating: train.zip

```
In [6]: !unzip /content/train.zip  
        !unzip /content/test.zip
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Streaming output truncated to the last 5000 lines.

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Writing Training Data into DF

```
In [7]: filenames = os.listdir('./train')
categories = []
for filename in filenames:
    category = filename.split('.')[0]
    if category == 'dog':
        categories.append(1)
    else:
        categories.append(0)

df = pd.DataFrame({
    'filename': filenames,
    'category': categories
})
```

```
In [8]: df
```

```
Out[8]:
```

	filename	category
0	dog.4388.jpg	1
1	dog.6069.jpg	1
2	cat.11136.jpg	0
3	dog.2509.jpg	1
4	cat.4006.jpg	0
...
24995	dog.8066.jpg	1
24996	cat.10191.jpg	0
24997	cat.11318.jpg	0
24998	dog.6821.jpg	1
24999	cat.6520.jpg	0

25000 rows × 2 columns

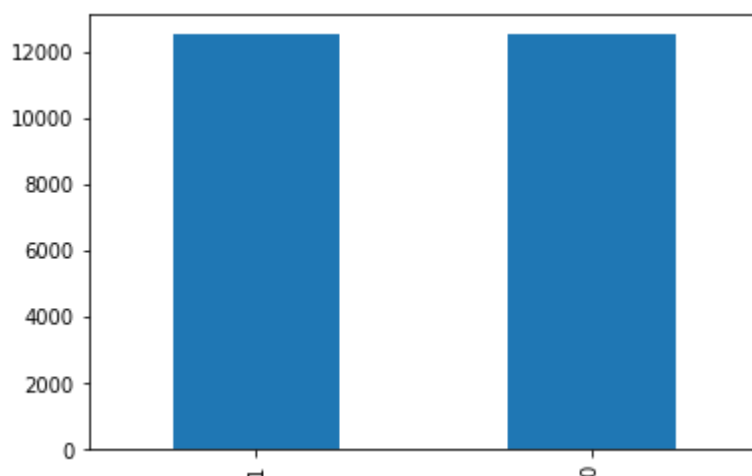
EDA

```
In [9]: df['category'] = df['category'].astype(str)
target_counts=df['category'].value_counts()
print("Number of dogs in the dataset:{}".format(target_counts['1']))
print("Number of cats in the dataset:{}".format(target_counts['0']))
```

Number of dogs in the dataset:12500
 Number of cats in the dataset:12500

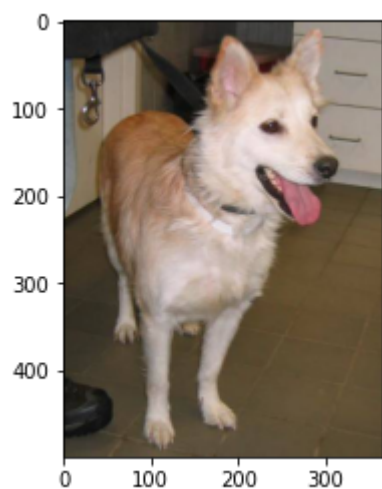

```
In [10]: df['category'].value_counts().plot.bar()
```

```
Out[10]: <matplotlib.axes._subplots.AxesSubplot at 0x7f3a489e7710>
```



```
In [11]: # see sample image  
sample = random.choice(filenamees)  
image = load_img("./train/"+sample)  
plt.imshow(image)
```

```
Out[11]: <matplotlib.image.AxesImage at 0x7f3a4843a850>
```



```
In [12]: # import required module
from PIL import Image

img = image

# get width and height
width = img.width
height = img.height

# display width and height
print("The height of the image is: ", height)
print("The width of the image is: ", width)
```

The height of the image is: 500
The width of the image is: 365

Prepare Data

```
In [13]: df.head()
```

Out[13]:

	filename	category
0	dog.4388.jpg	1
1	dog.6069.jpg	1
2	cat.11136.jpg	0
3	dog.2509.jpg	1
4	cat.4006.jpg	0

```
In [14]: df['category'] = df['category'].astype(int)
df['category'] = df['category'].replace({0: 'cat', 1: 'dog'})
df.head()
```

Out[14]:

	filename	category
0	dog.4388.jpg	dog
1	dog.6069.jpg	dog
2	cat.11136.jpg	cat
3	dog.2509.jpg	dog
4	cat.4006.jpg	cat

```
In [15]: df_sorted = df.sort_values(by=['category'])
```

In [16]: df_sorted

Out[16]:

	filename	category
24999	cat.6520.jpg	cat
10331	cat.1438.jpg	cat
10333	cat.6862.jpg	cat
10334	cat.9003.jpg	cat
19755	cat.2312.jpg	cat
...
11020	dog.437.jpg	dog
11024	dog.9324.jpg	dog
11025	dog.3919.jpg	dog
11030	dog.9504.jpg	dog
12499	dog.4497.jpg	dog

25000 rows × 2 columns

Create a subset

```
In [17]: df_cat = df_sorted.iloc[0:1300]
df_dog = df_sorted.iloc[12500:13800]
```

```
In [18]: frames = [df_cat, df_dog]

df_subset = pd.concat(frames)

df_subset
```

Out[18]:

	filename	category
24999	cat.6520.jpg	cat
10331	cat.1438.jpg	cat
10333	cat.6862.jpg	cat
10334	cat.9003.jpg	cat
19755	cat.2312.jpg	cat
...
20881	dog.10042.jpg	dog
20882	dog.1725.jpg	dog
24333	dog.4327.jpg	dog
24807	dog.5097.jpg	dog
16876	dog.12219.jpg	dog

2600 rows × 2 columns

Train-Test Splits

Full Set

```
In [19]: X_full = df_sorted['filename']
Y_full = df_sorted['category']
```

```
In [20]: X_train_full, X_test_full, y_train_full, y_test_full = train_test_split(X_full,
    Y_full, test_size=0.20, random_state=42)

train_data = {'filename': X_train_full,
              'category': y_train_full}
train_full_df = pd.concat(train_data, axis=1)
train_full_df = train_full_df.reset_index(drop=True)

validate_full_data = {'filename': X_test_full,
                     'category': y_test_full}
validate_full_df = pd.concat(validate_full_data, axis=1)
validate_full_df = validate_full_df.reset_index(drop=True)
```

Subset

```
In [21]: X = df_subset['filename']
        Y = df_subset['category']
```

```
In [22]: X_train, X_test, y_train, y_test = train_test_split(X, Y, test_size=0.20, random_state=42)

        train_data = {'filename': X_train,
                      'category': y_train}
        train_df = pd.concat(train_data, axis=1)
        train_df = train_df.reset_index(drop=True)

        validate_data = {'filename': X_test,
                         'category': y_test}
        validate_df = pd.concat(validate_data, axis=1)
        validate_df = validate_df.reset_index(drop=True)
```

```
In [23]: train_df
```

Out[23]:

	filename	category
0	cat.3211.jpg	cat
1	cat.9948.jpg	cat
2	dog.6744.jpg	dog
3	cat.5102.jpg	cat
4	dog.3174.jpg	dog
...
2075	dog.4522.jpg	dog
2076	cat.7691.jpg	cat
2077	cat.10297.jpg	cat
2078	cat.8030.jpg	cat
2079	cat.7011.jpg	cat

2080 rows × 2 columns

```
In [24]: validate_df
```

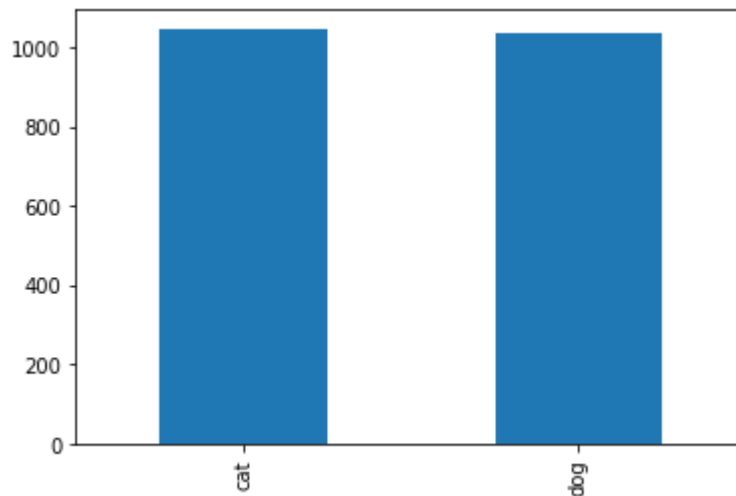
```
Out[24]:
```

	filename	category
0	dog.9433.jpg	dog
1	cat.9630.jpg	cat
2	cat.848.jpg	cat
3	dog.10043.jpg	dog
4	dog.7545.jpg	dog
...
515	dog.5407.jpg	dog
516	cat.9192.jpg	cat
517	cat.1030.jpg	cat
518	cat.4024.jpg	cat
519	dog.5579.jpg	dog

520 rows × 2 columns

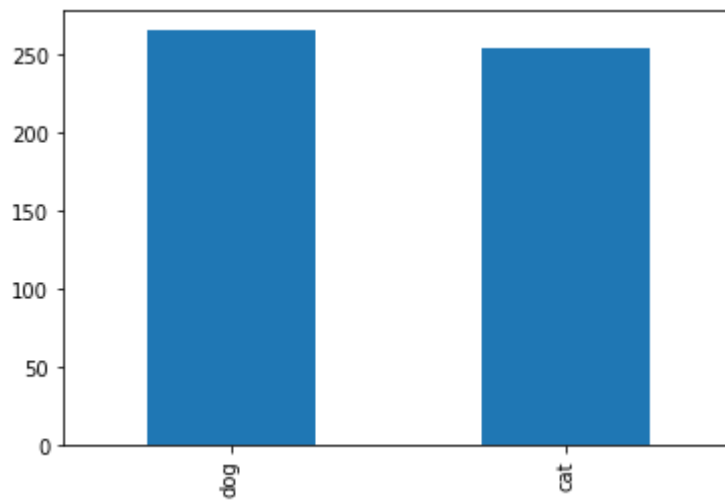
```
In [25]: train_df['category'].value_counts().plot.bar()
```

```
Out[25]: <matplotlib.axes._subplots.AxesSubplot at 0x7f3a483c8810>
```



```
In [26]: validate_df['category'].value_counts().plot.bar()
```

```
Out[26]: <matplotlib.axes._subplots.AxesSubplot at 0x7f3a46b28250>
```



Prep Data for Models

Define Constants

```
In [27]: total_train = train_df.shape[0]
total_validate = validate_df.shape[0]
batch_size=15

IMAGE_WIDTH=128
IMAGE_HEIGHT=128
IMAGE_SIZE=(IMAGE_WIDTH, IMAGE_HEIGHT)
IMAGE_CHANNELS=3
```

Training Generator

```
In [28]: train_datagen = ImageDataGenerator(
          rescale=1./255,
        )

train_generator = train_datagen.flow_from_dataframe(
    train_df,
    "./train/",
    x_col='filename',
    y_col='category',
    target_size=IMAGE_SIZE,
    class_mode='categorical',
    batch_size=batch_size
)
```

Found 2080 validated image filenames belonging to 2 classes.

Validation Generator

```
In [29]: validation_datagen = ImageDataGenerator(rescale=1./255)
validation_generator = validation_datagen.flow_from_dataframe(
    validate_df,
    "./train/",
    x_col='filename',
    y_col='category',
    target_size=IMAGE_SIZE,
    class_mode='categorical',
    batch_size=batch_size
)
```

Found 520 validated image filenames belonging to 2 classes.

Create CNN Models

Model 1

```
In [30]: # model 1 hyperparameters
max_neurons = 64
max_dropout = 0.5
optimizer = 'rmsprop'
```



```
In [31]: model1 = Sequential()

model1.add(Conv2D(max_neurons/4, (3, 3), activation='relu', input_shape=(IMAGE_WIDTH, IMAGE_HEIGHT, IMAGE_CHANNELS)))
model1.add(BatchNormalization())
model1.add(MaxPooling2D(pool_size=(2, 2)))
model1.add(Dropout(max_dropout/2))

model1.add(Conv2D(max_neurons/2, (3, 3), activation='relu'))
model1.add(BatchNormalization())
model1.add(MaxPooling2D(pool_size=(2, 2)))
model1.add(Dropout(max_dropout/2))

model1.add(Conv2D(max_neurons, (3, 3), activation='relu'))
model1.add(BatchNormalization())
model1.add(MaxPooling2D(pool_size=(2, 2)))
model1.add(Dropout(max_dropout/2))

model1.add(Flatten())
model1.add(Dense(max_neurons/2, activation='relu'))
model1.add(BatchNormalization())
model1.add(Dropout(max_dropout))
model1.add(Dense(2, activation='softmax')) # 2 because we have cat and dog classes

model1.compile(loss='categorical_crossentropy', optimizer=optimizer, metrics=['accuracy'])

model1.summary()
```

Model: "sequential"

Layer (type)	Output Shape	Param #
conv2d (Conv2D)	(None, 126, 126, 16)	448
batch_normalization (Batch Normalization)	(None, 126, 126, 16)	64
max_pooling2d (MaxPooling2D)	(None, 63, 63, 16)	0
dropout (Dropout)	(None, 63, 63, 16)	0
conv2d_1 (Conv2D)	(None, 61, 61, 32)	4640
batch_normalization_1 (Batch Normalization)	(None, 61, 61, 32)	128
max_pooling2d_1 (MaxPooling2D)	(None, 30, 30, 32)	0
dropout_1 (Dropout)	(None, 30, 30, 32)	0
conv2d_2 (Conv2D)	(None, 28, 28, 64)	18496
batch_normalization_2 (Batch Normalization)	(None, 28, 28, 64)	256
max_pooling2d_2 (MaxPooling2D)	(None, 14, 14, 64)	0
dropout_2 (Dropout)	(None, 14, 14, 64)	0
flatten (Flatten)	(None, 12544)	0
dense (Dense)	(None, 32)	401440
batch_normalization_3 (Batch Normalization)	(None, 32)	128
dropout_3 (Dropout)	(None, 32)	0
dense_1 (Dense)	(None, 2)	66
Total params: 425,666		
Trainable params: 425,378		
Non-trainable params: 288		

Model 2

```
In [32]: # model 2 hyperparameters  
max_neurons = 128  
# max_dropout = 0.4  
# optimizer = 'adam'
```

```
In [33]: model12 = Sequential()

model12.add(Conv2D(max_neurons/4, (3, 3), activation='relu', input_shape=(IMAGE_WIDTH, IMAGE_HEIGHT, IMAGE_CHANNELS)))
model12.add(BatchNormalization())
model12.add(MaxPooling2D(pool_size=(2, 2)))
model12.add(Dropout(max_dropout/2))

model12.add(Conv2D(max_neurons/2, (3, 3), activation='relu'))
model12.add(BatchNormalization())
model12.add(MaxPooling2D(pool_size=(2, 2)))
model12.add(Dropout(max_dropout/2))

model12.add(Conv2D(max_neurons, (3, 3), activation='relu'))
model12.add(BatchNormalization())
model12.add(MaxPooling2D(pool_size=(2, 2)))
model12.add(Dropout(max_dropout/2))

model12.add(Flatten())
model12.add(Dense(max_neurons/2, activation='relu'))
model12.add(BatchNormalization())
model12.add(Dropout(max_dropout))
model12.add(Dense(2, activation='softmax')) # 2 because we have cat and dog classes

model12.compile(loss='categorical_crossentropy', optimizer=optimizer, metrics=['accuracy'])

model12.summary()
```

Model: "sequential_1"

Layer (type)	Output Shape	Param #
conv2d_3 (Conv2D)	(None, 126, 126, 32)	896
batch_normalization_4 (Batch Normalization)	(None, 126, 126, 32)	128
max_pooling2d_3 (MaxPooling2D)	(None, 63, 63, 32)	0
dropout_4 (Dropout)	(None, 63, 63, 32)	0
conv2d_4 (Conv2D)	(None, 61, 61, 64)	18496
batch_normalization_5 (Batch Normalization)	(None, 61, 61, 64)	256
max_pooling2d_4 (MaxPooling2D)	(None, 30, 30, 64)	0
dropout_5 (Dropout)	(None, 30, 30, 64)	0
conv2d_5 (Conv2D)	(None, 28, 28, 128)	73856
batch_normalization_6 (Batch Normalization)	(None, 28, 28, 128)	512
max_pooling2d_5 (MaxPooling2D)	(None, 14, 14, 128)	0
dropout_6 (Dropout)	(None, 14, 14, 128)	0
flatten_1 (Flatten)	(None, 25088)	0
dense_2 (Dense)	(None, 64)	1605696
batch_normalization_7 (Batch Normalization)	(None, 64)	256
dropout_7 (Dropout)	(None, 64)	0
dense_3 (Dense)	(None, 2)	130
Total params: 1,700,226		
Trainable params: 1,699,650		
Non-trainable params: 576		

Model 3

```
In [34]: # model 3 hyperparameters  
max_neurons = 256  
# max_dropout = 0.5  
# optimizer = 'SGD'
```

```
In [35]: model3 = Sequential()

model3.add(Conv2D(max_neurons/4, (3, 3), activation='relu', input_shape=(IMAGE_WIDTH, IMAGE_HEIGHT, IMAGE_CHANNELS)))
model3.add(BatchNormalization())
model3.add(MaxPooling2D(pool_size=(2, 2)))
model3.add(Dropout(max_dropout/2))

model3.add(Conv2D(max_neurons/2, (3, 3), activation='relu'))
model3.add(BatchNormalization())
model3.add(MaxPooling2D(pool_size=(2, 2)))
model3.add(Dropout(max_dropout/2))

model3.add(Conv2D(max_neurons, (3, 3), activation='relu'))
model3.add(BatchNormalization())
model3.add(MaxPooling2D(pool_size=(2, 2)))
model3.add(Dropout(max_dropout/2))

model3.add(Flatten())
model3.add(Dense(max_neurons/2, activation='relu'))
model3.add(BatchNormalization())
model3.add(Dropout(max_dropout))
model3.add(Dense(2, activation='softmax')) # 2 because we have cat and dog classes

model3.compile(loss='categorical_crossentropy', optimizer=optimizer, metrics=['accuracy'])

model3.summary()
```

Model: "sequential_2"

Layer (type)	Output Shape	Param #
conv2d_6 (Conv2D)	(None, 126, 126, 64)	1792
batch_normalization_8 (Batch Normalization)	(None, 126, 126, 64)	256
max_pooling2d_6 (MaxPooling2D)	(None, 63, 63, 64)	0
dropout_8 (Dropout)	(None, 63, 63, 64)	0
conv2d_7 (Conv2D)	(None, 61, 61, 128)	73856
batch_normalization_9 (Batch Normalization)	(None, 61, 61, 128)	512
max_pooling2d_7 (MaxPooling2D)	(None, 30, 30, 128)	0
dropout_9 (Dropout)	(None, 30, 30, 128)	0
conv2d_8 (Conv2D)	(None, 28, 28, 256)	295168
batch_normalization_10 (Batch Normalization)	(None, 28, 28, 256)	1024
max_pooling2d_8 (MaxPooling2D)	(None, 14, 14, 256)	0
dropout_10 (Dropout)	(None, 14, 14, 256)	0
flatten_2 (Flatten)	(None, 50176)	0
dense_4 (Dense)	(None, 128)	6422656
batch_normalization_11 (Batch Normalization)	(None, 128)	512
dropout_11 (Dropout)	(None, 128)	0
dense_5 (Dense)	(None, 2)	258
Total params: 6,796,034		
Trainable params: 6,794,882		
Non-trainable params: 1,152		

Training/Testing Models

Setting up callbacks

```
In [36]: from keras.callbacks import EarlyStopping, ReduceLROnPlateau

# early stopping callback
earlystop = EarlyStopping(patience=10)
```

```
In [37]: # reduce the learning rate when the accuracy not increase for 2 steps
learning_rate_reduction = ReduceLROnPlateau(monitor='val_accuracy',
                                             patience=2,
                                             verbose=1,
                                             factor=0.5,
                                             min_lr=0.00001)
```

```
In [38]: callbacks = [earlystop, learning_rate_reduction]
```

Model 1

In [39]: epochs=10

```
history = model1.fit(
    train_generator,
    epochs=epochs,
    validation_data=validation_generator,
    validation_steps=total_validate//batch_size,
    steps_per_epoch=total_train//batch_size,
    callbacks=callbacks
)
```

Epoch 1/10

138/138 [=====] - 54s 376ms/step - loss: 0.9028 - accuracy: 0.5797 - val_loss: 2.8422 - val_accuracy: 0.5176 - lr: 0.0010

Epoch 2/10

138/138 [=====] - 52s 375ms/step - loss: 0.7133 - accuracy: 0.6383 - val_loss: 0.8333 - val_accuracy: 0.4961 - lr: 0.0010

Epoch 3/10

138/138 [=====] - ETA: 0s - loss: 0.6151 - accuracy: 0.6891

Epoch 3: ReduceLROnPlateau reducing learning rate to 0.0005000000237487257.

138/138 [=====] - 51s 366ms/step - loss: 0.6151 - accuracy: 0.6891 - val_loss: 1.2736 - val_accuracy: 0.4902 - lr: 0.0010

Epoch 4/10

138/138 [=====] - 50s 360ms/step - loss: 0.5337 - accuracy: 0.7395 - val_loss: 1.1516 - val_accuracy: 0.5471 - lr: 5.0000e-04

Epoch 5/10

138/138 [=====] - 51s 369ms/step - loss: 0.4966 - accuracy: 0.7637 - val_loss: 1.0051 - val_accuracy: 0.5824 - lr: 5.0000e-04

Epoch 6/10

138/138 [=====] - 53s 383ms/step - loss: 0.4557 - accuracy: 0.7923 - val_loss: 0.6692 - val_accuracy: 0.6843 - lr: 5.0000e-04

Epoch 7/10

138/138 [=====] - 51s 372ms/step - loss: 0.4176 - accuracy: 0.8165 - val_loss: 0.7125 - val_accuracy: 0.6863 - lr: 5.0000e-04

Epoch 8/10

138/138 [=====] - 54s 392ms/step - loss: 0.4055 - accuracy: 0.8208 - val_loss: 0.8513 - val_accuracy: 0.6529 - lr: 5.0000e-04

Epoch 9/10

138/138 [=====] - ETA: 0s - loss: 0.3692 - accuracy: 0.8339

Epoch 9: ReduceLROnPlateau reducing learning rate to 0.0002500000118743628.

138/138 [=====] - 52s 376ms/step - loss: 0.3692 - accuracy: 0.8339 - val_loss: 1.1317 - val_accuracy: 0.6275 - lr: 5.0000e-04

Epoch 10/10

138/138 [=====] - 51s 367ms/step - loss: 0.3229 - accuracy: 0.8596 - val_loss: 0.7111 - val_accuracy: 0.7275 - lr: 2.5000e-04

In [40]: train_score = model1.evaluate_generator(train_generator, verbose=0)
 print('Train loss:', train_score[0])
 print('Train accuracy', train_score[1])

Train loss: 0.30284905433654785

Train accuracy 0.8879807591438293

```
In [41]: test_score = model1.evaluate_generator(validation_generator, verbose=0)
print('Test loss:', test_score[0])
print('Test accuracy', test_score[1])
```

Test loss: 0.7133089303970337
Test accuracy 0.7250000238418579

```
In [42]: results = pd.DataFrame(columns = ['Model', 'Max Neurons', 'Training Accuracy',
'Testing Accuracy'])

#eval
Model = 'Model 1'
Max_Neurons = 64
Training_Accuracy = train_score[1]
Testing_Accuracy = test_score[1]
row = [Model, Max_Neurons, Training_Accuracy, Testing_Accuracy]
results = results.append(pd.DataFrame([row], columns=results.columns), ignore_
index=True)
results
```

Out[42]:

	Model	Max Neurons	Training Accuracy	Testing Accuracy
0	Model 1	64	0.887981	0.725

Model 2

```
In [43]: epochs=10

history = model2.fit(
    train_generator,
    epochs=epochs,
    validation_data=validation_generator,
    validation_steps=total_validate//batch_size,
    steps_per_epoch=total_train//batch_size,
    callbacks=callbacks
)
```

Epoch 1/10

138/138 [=====] - 98s 696ms/step - loss: 0.9859 - accuracy: 0.5574 - val_loss: 0.9274 - val_accuracy: 0.4902 - lr: 0.0010

Epoch 2/10

138/138 [=====] - 96s 694ms/step - loss: 0.8003 - accuracy: 0.6044 - val_loss: 2.2920 - val_accuracy: 0.4922 - lr: 0.0010

Epoch 3/10

138/138 [=====] - 95s 690ms/step - loss: 0.6795 - accuracy: 0.6475 - val_loss: 0.8520 - val_accuracy: 0.5667 - lr: 0.0010

Epoch 4/10

138/138 [=====] - 96s 695ms/step - loss: 0.5689 - accuracy: 0.7094 - val_loss: 0.9780 - val_accuracy: 0.5569 - lr: 0.0010

Epoch 5/10

138/138 [=====] - 96s 693ms/step - loss: 0.5121 - accuracy: 0.7404 - val_loss: 0.6510 - val_accuracy: 0.6608 - lr: 0.0010

Epoch 6/10

138/138 [=====] - 96s 693ms/step - loss: 0.4720 - accuracy: 0.7860 - val_loss: 0.6867 - val_accuracy: 0.6353 - lr: 0.0010

Epoch 7/10

138/138 [=====] - 96s 695ms/step - loss: 0.4134 - accuracy: 0.8266 - val_loss: 0.5812 - val_accuracy: 0.7196 - lr: 0.0010

Epoch 8/10

138/138 [=====] - 97s 703ms/step - loss: 0.3740 - accuracy: 0.8397 - val_loss: 0.5977 - val_accuracy: 0.7196 - lr: 0.0010

Epoch 9/10

138/138 [=====] - ETA: 0s - loss: 0.3301 - accuracy: 0.8639

Epoch 9: ReduceLROnPlateau reducing learning rate to 0.0005000000237487257.

138/138 [=====] - 98s 708ms/step - loss: 0.3301 - accuracy: 0.8639 - val_loss: 0.7316 - val_accuracy: 0.6804 - lr: 0.0010

Epoch 10/10

138/138 [=====] - 98s 707ms/step - loss: 0.2648 - accuracy: 0.8935 - val_loss: 0.7315 - val_accuracy: 0.7000 - lr: 5.0000e-04

```
In [44]: train_score = model2.evaluate_generator(train_generator, verbose=0)
print('Train loss:', train_score[0])
print('Train accuracy', train_score[1])
```

Train loss: 0.23876090347766876

Train accuracy 0.8942307829856873

```
In [45]: test_score = model2.evaluate_generator(validation_generator, verbose=0)
print('Test loss:', test_score[0])
print('Test accuracy', test_score[1])
```

```
Test loss: 0.7334896922111511
Test accuracy 0.6980769038200378
```

```
In [46]: #eval
Model = 'Model 2'
Max_Neurons = 128
Training_Accuracy = train_score[1]
Testing_Accuracy = test_score[1]
row = [Model, Max_Neurons, Training_Accuracy, Testing_Accuracy]
results = results.append(pd.DataFrame([row], columns=results.columns), ignore_
index=True)
results
```

Out[46]:

	Model	Max Neurons	Training Accuracy	Testing Accuracy
0	Model 1	64	0.887981	0.725000
1	Model 2	128	0.894231	0.698077

Model 3

```
In [47]: epochs=10

history = model3.fit(
    train_generator,
    epochs=epochs,
    validation_data=validation_generator,
    validation_steps=total_validate//batch_size,
    steps_per_epoch=total_train//batch_size,
    callbacks=callbacks
)
```

```
Epoch 1/10
138/138 [=====] - 247s 2s/step - loss: 1.0461 - accu
racy: 0.5850 - val_loss: 0.7671 - val_accuracy: 0.5039 - lr: 0.0010
Epoch 2/10
138/138 [=====] - 239s 2s/step - loss: 0.7859 - accu
racy: 0.6276 - val_loss: 0.7832 - val_accuracy: 0.5235 - lr: 0.0010
Epoch 3/10
138/138 [=====] - 239s 2s/step - loss: 0.6398 - accu
racy: 0.6794 - val_loss: 0.8502 - val_accuracy: 0.5627 - lr: 0.0010
Epoch 4/10
138/138 [=====] - 239s 2s/step - loss: 0.5510 - accu
racy: 0.7346 - val_loss: 0.6776 - val_accuracy: 0.6471 - lr: 0.0010
Epoch 5/10
138/138 [=====] - 236s 2s/step - loss: 0.4888 - accu
racy: 0.7685 - val_loss: 0.6469 - val_accuracy: 0.6490 - lr: 0.0010
Epoch 6/10
138/138 [=====] - 241s 2s/step - loss: 0.4228 - accu
racy: 0.8058 - val_loss: 0.6747 - val_accuracy: 0.6667 - lr: 0.0010
Epoch 7/10
138/138 [=====] - 241s 2s/step - loss: 0.3573 - accu
racy: 0.8465 - val_loss: 0.6201 - val_accuracy: 0.6961 - lr: 0.0010
Epoch 8/10
138/138 [=====] - 240s 2s/step - loss: 0.3257 - accu
racy: 0.8586 - val_loss: 0.8078 - val_accuracy: 0.6725 - lr: 0.0010
Epoch 9/10
138/138 [=====] - 241s 2s/step - loss: 0.2588 - accu
racy: 0.8925 - val_loss: 0.7065 - val_accuracy: 0.7255 - lr: 0.0010
Epoch 10/10
138/138 [=====] - 239s 2s/step - loss: 0.2169 - accu
racy: 0.9109 - val_loss: 0.7443 - val_accuracy: 0.7275 - lr: 0.0010
```

```
In [48]: train_score = model3.evaluate_generator(train_generator, verbose=0)
print('Train loss:', train_score[0])
print('Train accuracy', train_score[1])
```

```
Train loss: 0.1372830867767334
Train accuracy 0.9427884817123413
```

```
In [49]: test_score = model3.evaluate_generator(validation_generator, verbose=0)
print('Test loss:', test_score[0])
print('Test accuracy', test_score[1])
```

```
Test loss: 0.7556783556938171
Test accuracy 0.7230769395828247
```

```
In [50]: #eval
Model = 'Model 3'
Max_Neurons = 256
Training_Accuracy = train_score[1]
Testing_Accuracy = test_score[1]
row = [Model, Max_Neurons, Training_Accuracy, Testing_Accuracy]
results = results.append(pd.DataFrame([row], columns=results.columns), ignore_index=True)
results
```

Out[50]:

	Model	Max Neurons	Training Accuracy	Testing Accuracy
0	Model 1	64	0.887981	0.725000
1	Model 2	128	0.894231	0.698077
2	Model 3	256	0.942788	0.723077

ROC and Precision/Recall Graphs

```
In [51]: from sklearn.metrics import roc_curve, roc_auc_score, auc
```

```
In [52]: test_gen = ImageDataGenerator(rescale=1./255)
test_generator = test_gen.flow_from_dataframe(
    validate_df,
    "./train/",
    x_col='filename',
    y_col=None,
    class_mode=None,
    target_size=IMAGE_SIZE,
    batch_size=batch_size,
    shuffle=False
)
```

Found 520 validated image filenames.

ROC

```
In [53]: y_test = y_test.map({'dog': 1, 'cat': 0}).astype(int)
```

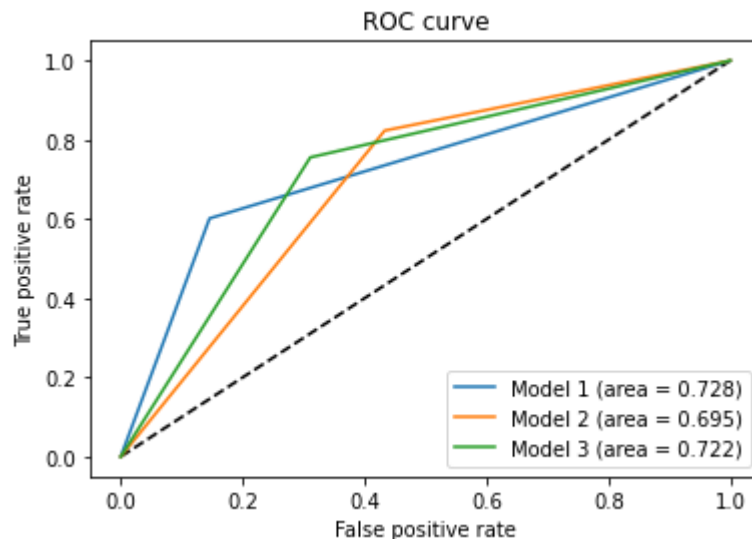
```
In [54]: y_pred1 = model1.predict_generator(test_generator)
y_pred1 = np.argmax(y_pred1, axis=-1)
y_pred1 = pd.DataFrame(y_pred1, columns = ['category'])
fpr1, tpr1, thresholds1 = roc_curve(y_test, y_pred1)

y_pred2 = model2.predict_generator(test_generator)
y_pred2 = np.argmax(y_pred2, axis=-1)
y_pred2 = pd.DataFrame(y_pred2, columns = ['category'])
fpr2, tpr2, thresholds2 = roc_curve(y_test, y_pred2)

y_pred3 = model3.predict_generator(test_generator)
y_pred3 = np.argmax(y_pred3, axis=-1)
y_pred3 = pd.DataFrame(y_pred3, columns = ['category'])
fpr3, tpr3, thresholds3 = roc_curve(y_test, y_pred3)
```

```
In [55]: auc1 = auc(fpr1, tpr1)
auc2 = auc(fpr2, tpr2)
auc3 = auc(fpr3, tpr3)
```

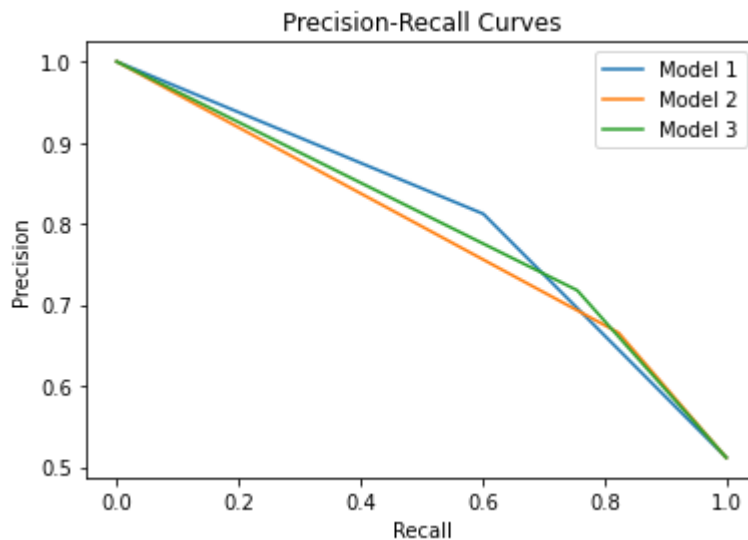
```
In [56]: plt.figure(1)
plt.plot([0, 1], [0, 1], 'k--')
plt.plot(fpr1, tpr1, label='Model 1 (area = {:.3f})'.format(auc1))
plt.plot(fpr2, tpr2, label='Model 2 (area = {:.3f})'.format(auc2))
plt.plot(fpr3, tpr3, label='Model 3 (area = {:.3f})'.format(auc3))
plt.xlabel('False positive rate')
plt.ylabel('True positive rate')
plt.title('ROC curve')
plt.legend(loc='best')
plt.show()
```



Precision Recall


```
In [57]: precision1, recall1, thresholds1 = precision_recall_curve(y_test, y_pred1)
precision2, recall2, thresholds2 = precision_recall_curve(y_test, y_pred2)
precision3, recall3, thresholds3 = precision_recall_curve(y_test, y_pred3)
```

```
In [58]: plt.figure(1)
plt.plot(recall1, precision1, label='Model 1')
plt.plot(recall2, precision2, label='Model 2')
plt.plot(recall3, precision3, label='Model 3')
plt.title(f'Precision-Recall Curves')
plt.legend(loc='best')
plt.xlabel('Recall')
plt.ylabel('Precision')
plt.show()
```



Training the Best Model w/ All Data

Prep Data for Models

Define Constants

```
In [59]: total_train = train_full_df.shape[0]
total_validate = validate_full_df.shape[0]
batch_size=15

IMAGE_WIDTH=128
IMAGE_HEIGHT=128
IMAGE_SIZE=(IMAGE_WIDTH, IMAGE_HEIGHT)
IMAGE_CHANNELS=3
```

```
In [60]: # model 4 hyperparameters  
max_neurons = 64  
# max_dropout = 0.5  
# optimizer = 'SGD'
```

```
In [61]: model4 = Sequential()

model4.add(Conv2D(max_neurons/4, (3, 3), activation='relu', input_shape=(IMAGE_WIDTH, IMAGE_HEIGHT, IMAGE_CHANNELS)))
model4.add(BatchNormalization())
model4.add(MaxPooling2D(pool_size=(2, 2)))
model4.add(Dropout(max_dropout/2))

model4.add(Conv2D(max_neurons/2, (3, 3), activation='relu'))
model4.add(BatchNormalization())
model4.add(MaxPooling2D(pool_size=(2, 2)))
model4.add(Dropout(max_dropout/2))

model4.add(Conv2D(max_neurons, (3, 3), activation='relu'))
model4.add(BatchNormalization())
model4.add(MaxPooling2D(pool_size=(2, 2)))
model4.add(Dropout(max_dropout/2))

model4.add(Flatten())
model4.add(Dense(max_neurons/2, activation='relu'))
model4.add(BatchNormalization())
model4.add(Dropout(max_dropout))
model4.add(Dense(2, activation='softmax')) # 2 because we have cat and dog classes

model4.compile(loss='categorical_crossentropy', optimizer=optimizer, metrics=['accuracy'])

model4.summary()
```

Model: "sequential_3"

Layer (type)	Output Shape	Param #
conv2d_9 (Conv2D)	(None, 126, 126, 16)	448
batch_normalization_12 (Batch Normalization)	(None, 126, 126, 16)	64
max_pooling2d_9 (MaxPooling2D)	(None, 63, 63, 16)	0
dropout_12 (Dropout)	(None, 63, 63, 16)	0
conv2d_10 (Conv2D)	(None, 61, 61, 32)	4640
batch_normalization_13 (Batch Normalization)	(None, 61, 61, 32)	128
max_pooling2d_10 (MaxPooling2D)	(None, 30, 30, 32)	0
dropout_13 (Dropout)	(None, 30, 30, 32)	0
conv2d_11 (Conv2D)	(None, 28, 28, 64)	18496
batch_normalization_14 (Batch Normalization)	(None, 28, 28, 64)	256
max_pooling2d_11 (MaxPooling2D)	(None, 14, 14, 64)	0
dropout_14 (Dropout)	(None, 14, 14, 64)	0
flatten_3 (Flatten)	(None, 12544)	0
dense_6 (Dense)	(None, 32)	401440
batch_normalization_15 (Batch Normalization)	(None, 32)	128
dropout_15 (Dropout)	(None, 32)	0
dense_7 (Dense)	(None, 2)	66
Total params: 425,666		
Trainable params: 425,378		
Non-trainable params: 288		

Training Generator

```
In [62]: train_datagen = ImageDataGenerator(
        rescale=1./255,
    )

    train_generator_full = train_datagen.flow_from_dataframe(
        train_full_df,
        "./train/",
        x_col='filename',
        y_col='category',
        target_size=IMAGE_SIZE,
        class_mode='categorical',
        batch_size=batch_size
    )
```

Found 20000 validated image filenames belonging to 2 classes.

Validation Generator

```
In [63]: validation_generator_full = validation_datagen.flow_from_dataframe(
        validate_full_df,
        "./train/",
        x_col='filename',
        y_col='category',
        target_size=IMAGE_SIZE,
        class_mode='categorical',
        batch_size=batch_size
    )
```

Found 5000 validated image filenames belonging to 2 classes.

Train/Test the Model

```
In [65]: epochs=3

history = model4.fit(
    train_generator_full,
    epochs=epochs,
    validation_data=validation_generator_full,
    validation_steps=total_validate//batch_size,
    steps_per_epoch=total_train//batch_size,
    callbacks=callbacks
)
```

```
Epoch 1/3
1333/1333 [=====] - 515s 386ms/step - loss: 0.5099 -
accuracy: 0.7529 - val_loss: 0.5376 - val_accuracy: 0.7449 - lr: 0.0010
Epoch 2/3
1333/1333 [=====] - 503s 377ms/step - loss: 0.4583 -
accuracy: 0.7914 - val_loss: 0.4632 - val_accuracy: 0.7784 - lr: 0.0010
Epoch 3/3
1333/1333 [=====] - 510s 383ms/step - loss: 0.4238 -
accuracy: 0.8100 - val_loss: 0.5042 - val_accuracy: 0.7439 - lr: 0.0010
```

```
In [67]: test_score_full = model4.evaluate_generator(validation_generator_full, verbose
=0)
print('Test loss:', test_score_full[0])
print('Test accuracy', test_score_full[1])
```

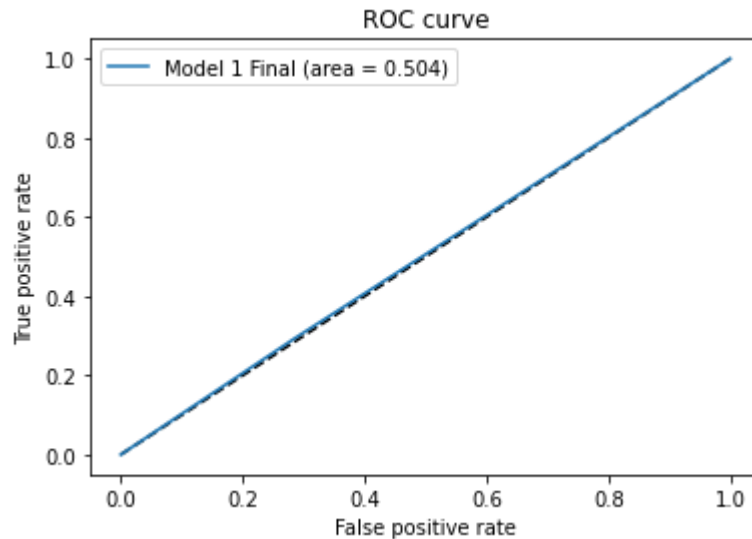
```
Test loss: 0.504469633102417
Test accuracy 0.7437999844551086
```

```
In [68]: y_test_full = y_test_full.map({'dog': 1, 'cat': 0}).astype(int)
```

```
In [69]: y_pred_full = model4.predict_generator(validation_generator_full)
y_pred_full = np.argmax(y_pred_full, axis=-1)
y_pred_full = pd.DataFrame(y_pred_full, columns = ['category'])
fpr, tpr, thresholds = roc_curve(y_test_full, y_pred_full)
```

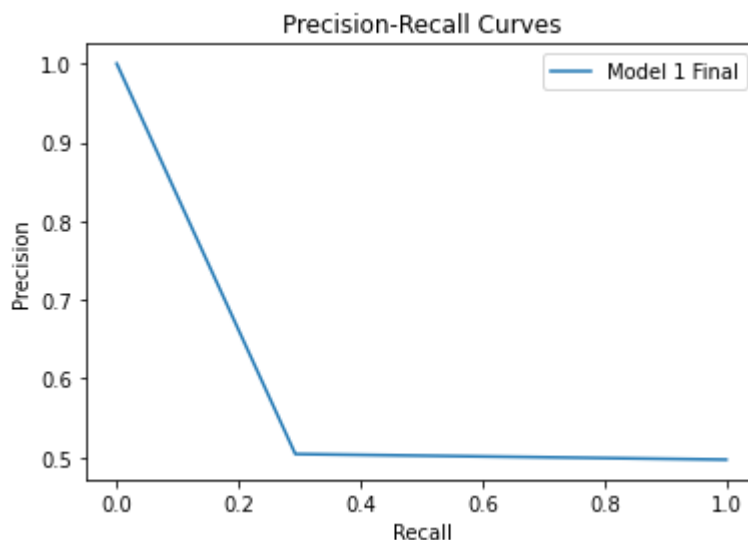
```
In [70]: auc = auc(fpr, tpr)
```

```
In [71]: plt.figure(1)
plt.plot([0, 1], [0, 1], 'k--')
plt.plot(fpr, tpr, label='Model 1 Final (area = {:.3f})'.format(auc))
plt.xlabel('False positive rate')
plt.ylabel('True positive rate')
plt.title('ROC curve')
plt.legend(loc='best')
plt.show()
```



```
In [72]: precision, recall, thresholds = precision_recall_curve(y_test_full, y_pred_full)
```

```
In [73]: plt.figure(1)
plt.plot(recall, precision, label='Model 1 Final')
plt.title('Precision-Recall Curves')
plt.legend(loc='best')
plt.xlabel('Recall')
plt.ylabel('Precision')
plt.show()
```



Predictions for Kaggle

Prep test image data

```
In [74]: # prepare test data
test_filenames = os.listdir("./test/")
test_df = pd.DataFrame({
    'filename': test_filenames
})
nb_samples = len(test_df)
```

```
In [75]: # create testing image generator
test_gen = ImageDataGenerator(rescale=1./255)
test_generator = test_gen.flow_from_dataframe(
    test_df,
    "./test/",
    x_col='filename',
    y_col=None,
    class_mode=None,
    target_size=IMAGE_SIZE,
    batch_size=1,
    shuffle=False
)
```

Found 12500 validated image filenames.

Model predictions

```
In [76]: predict = model4.predict_generator(test_generator, steps=nb_samples)
```

Kaggle Submission

```
In [77]: # For categorical classification the prediction will come with probability of each
category. So we will pick the category that have the highest probability with
numpy average max
test_df['category'] = np.argmax(predict, axis=-1)
```

```
In [78]: # convert the predict category back into our generator classes
label_map = dict((v,k) for k,v in train_generator.class_indices.items())
test_df['category'] = test_df['category'].replace(label_map)
```

```
In [79]: # map the result back to dog is 1 and cat is 0
test_df['category'] = test_df['category'].replace({ 'dog': 1, 'cat': 0 })
```



```
In [80]: # create Kaggle submission csv
submission_df = test_df.copy()
submission_df['id'] = submission_df['filename'].str.split('.').str[0]
submission_df['label'] = submission_df['category']
submission_df.drop(['filename', 'category'], axis=1, inplace=True)
submission_df.to_csv('submission.csv', index=False)
```

```
In [81]: files.download('submission.csv')
```