

## Challenge 1: Classification

In this challenge, you're given a food classification dataset which has 101 classes. You need to analyze and preprocess the dataset as well as build deep learning models for performing food classification.

Three models are to be trained for this task, mainly light, medium, and heavy model.

Examples:

Light model - mobilenetv2

Medium model - Resnet50

Heavy model - VGG19

The above given models are examples. You are free to choose any deep learning model to train.

**Main Objective:** You are supposed to use both TensorFlow and PyTorch for this task. You need to train one model for each framework. (You can use one of the frameworks again for the third model)

## Summary

Create a table for your train and test accuracy as well as speed for each model (mention the framework used for training)

## List of Submitted Files through Google Drive Folder for this Assignment

Please refer the link to the mentioned Google Drive folder in email for following files/attachments.

1. Colab notebook: *Build\_a\_food\_image\_classifier\_Subodh\_Submission.ipynb*
2. Models:
  - a. *my\_model\_trained\_mobilenet.hdf5*
  - b. *my\_model\_resnet50.pt*
  - c. *my\_model\_trained\_inception.hdf5*
3. Video for demo of web application built & hosted for this assignment: *Food-101-Streamlit.mp4*

## A Simple Web Application for Image Classification using Food-101 dataset.

I have **built & hosted** a web application for this assignment. I have used all 3 models for classifying images of food items that I have trained & tested using the given dataset, which can be found below in this notebook.

Link to Youtube video: <https://youtu.be/5aIQyPT33Aw>

In [1]:

```
from IPython.display import YouTubeVideo
YouTubeVideo(id='5aIQyPT33Aw', width=800, height=500)
```

Out[1]:

# Analyze the dataset

## Objectives

1. Upload the dataset provided (Google Drive link).
2. Extract the dataset.
3. Re-arrange dataset into training and testing folders.
4. List number of samples in training and testing folders.
5. Plot sample images from training and testing datasets.

In [54]:

```
# Import necessary libraries
import os
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
import matplotlib as mpl
import missingno as msno
import datetime
import tensorflow as tf
import tensorflow
import collections
from collections import defaultdict
from shutil import copy
from shutil import copytree, rmtree
from tensorflow.keras.preprocessing.image import ImageDataGenerator
import tensorflow.keras.backend as K
from tensorflow.keras import regularizers
from tensorflow.keras.applications.inception_v3 import InceptionV3
from tensorflow.keras.models import Sequential, Model
from tensorflow.keras.layers import Dense, Dropout, Activation, Flatten, BatchNormalization
from tensorflow.keras.layers import Convolution2D, MaxPooling2D, ZeroPadding2D, GlobalAveragePooling2D, AveragePooling2D
from tensorflow.keras.preprocessing.image import ImageDataGenerator
from tensorflow.keras.callbacks import ModelCheckpoint, CSVLogger, LearningRateScheduler, ReduceLROnPlateau, EarlyStopping
from tensorflow.keras.optimizers import Adam, SGD
from tensorflow.keras.regularizers import l2
from tensorflow import keras
from tensorflow.keras import models
from keras.applications import MobileNetV2
import cv2
import math
from tensorflow.keras.initializers import he_uniform, glorot_uniform
import joblib
import pickle
import time
from IPython.display import Image
```

In [2]:

```
print(tf.__version__)
```

```
PYTHON (3.6.2) [version]
```

2.4.1

In [3]:

```
# checking for GPU
device_name = tf.test.gpu_device_name()
if device_name != '/device:GPU:0':
    raise SystemError('GPU device not found')
print('Found GPU at: {}'.format(device_name))
```

Found GPU at: /device:GPU:0

**Upload the dataset provided (Google Drive link).**

In [4]:

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

Mounted at /content/gdrive

In [5]:

```
%cd /content/gdrive/MyDrive
```

/content/gdrive/MyDrive

**Extract the dataset.**

In [6]:

```
# Extract the dataset
!unzip food-101.zip
```

**Streaming output truncated to the last 5000 lines.**

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inflating: food-101/meta/train.json
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```

In [6]:

```
# change the current working directory
%cd /content/gdrive/MyDrive/food-101
```

```
/content/gdrive/MyDrive/food-101
```

In [7]:

```
# check the present working directory
!pwd
```

```
/content/gdrive/MyDrive/food-101
```

In [9]:

```
!ls
```

```
images meta README.txt
```

In [10]:

```
print("Classes of food items:\n\n")
os.listdir('/content/gdrive/MyDrive/food-101/images')
```

Classes of food items:

Out[10]:

```
['apple_pie',
 'baby_back_ribs',
 'baklava',
 'beef_carpaccio',
 'beef_tartare',
 'beet_salad',
 'beignets',
 'bibimbap',
 'bread_pudding',
 'breakfast_burrito',
 'bruschetta',
 'caesar_salad',
 'cannoli',
 'caprese_salad',
 'carrot_cake',
 'ceviche',
 'cheesecake',
 'cheese_plate',
 'chicken_curry',
 'chicken_quesadilla',
 'chicken_wings',
 'chocolate_cake',
 'chocolate_mousse',
 'churros',
 'clam_chowder',
 'club_sandwich',
 'crab_cakes',
 'creme_brulee',
 'croque_madame',
 'cup_cakes',
 'deviled_eggs',
 'donuts',
 'dumplings',
 'edamame',
 'eggs_benedict',
 'escargots',
 'falafel',
 'filet_mignon',
 'fish_and_chips',
 'foie_gras',
 'french_fries',
 'french_onion_soup',
 'french_toast',
 'fried_calamari',
 'fried_rice',
 'frozen_yogurt',
 'garlic_bread',
 'gnocchi',
 'greek_salad',
 'grilled_cheese_sandwich',
 'grilled_salmon',
 'guacamole',
 'gyoza',
 'hamburger',
 'hot_and_sour_soup',
 'hot_dog',
 'huevos_rancheros',
 'hummus',
 'ice_cream',
 'lasagna',
 'lobster_bisque',
 'lobster_roll_sandwich',
 'macaroni_and_cheese',
 'macarons',
 'miso_soup',
 'mussels',
 'nachos',
 'omelette',
 'onion_rings',
 'ovsters']
```

```
'eggplant',
'pad_thai',
'paella',
'pancakes',
'panna_cotta',
'peking_duck',
'pho',
'pizza',
'pork_chop',
'poutine',
'prime_rib',
'pulled_pork_sandwich',
'ramen',
'ravioli',
'red_velvet_cake',
'risotto',
'samosa',
'sashimi',
'scallops',
'seaweed_salad',
'shrimp_and_grits',
'spaghetti_bolognese',
'spaghetti_carbonara',
'spring_rolls',
'steak',
'strawberry_shortcake',
'sushi',
'tacos',
'takoyaki',
'tiramisu',
'tuna_tartare',
'waffles']
```

In [7]:

```
print("Total classes: ", len(os.listdir('/content/gdrive/MyDrive/food-101/images')))
```

Total classes: 101

Thus, this is a multi-class classification problem with a total of 10 classes.

### Re-arranging dataset into folders.

In [6]:

```
# Function to re-arrange the dataset
def rearrange_data(filepath, source, destination):
    ''' This function prepares train & test data & puts it into respective folders '''

    print("\nPreparing the required data...")
    classes = defaultdict(list)
    with open(filepath, 'r') as fp:
        paths = [read.strip() for read in fp.readlines()]
        print("\nLooking into food items...")
        for path in paths:
            food_item = path.split('/')
            classes[food_item[0]].append(food_item[1] + '.jpg')

    print("\nCopying the required data into folders...")
    for food_item in classes.keys():
        if not os.path.exists(os.path.join(destination, food_item)):
            os.makedirs(os.path.join(destination, food_item))
        for item in classes[food_item]:
            copy(os.path.join(source, food_item, item),
                 os.path.join(destination, food_item, item))

    print("\nDone!")
```

In [9]:

```
%cd /content/gdrive/MyDrive/food-101
```

```
/content/gdrive/MyDrive/food-101
```

In [14]:

```
# create training data
print("Creating our train data...")
rearrange_data('/content/gdrive/MyDrive/food-101/meta/train.txt',
               '/content/gdrive/MyDrive/food-101/images', 'train')
```

Creating our train data...

Preparing the required data...

Looking into food items...

Copying the required data into folders...

Done!

In [9]:

```
%cd /content/gdrive/MyDrive/food-101/train

print("\nTotal number of classes of images in the train folder: ")
train_samples = os.listdir()
train_files = len(train_samples)
print(train_files)
```

```
/content/gdrive/MyDrive/food-101/train
```

Total number of classes of images in the train folder:  
101

In [15]:

```
print("Total number of samples in the train folder:")
!find /content/gdrive/MyDrive/food-101/train -type d -or -type f -printf '.' | wc -c
```

Total number of samples in the train folder:  
75750

In [76]:

```
%cd /content/gdrive/MyDrive/food-101
```

```
/content/gdrive/My Drive/food-101
```

In [77]:

```
# create testing data
print("Creating our test data...")
rearrange_data('/content/gdrive/MyDrive/food-101/meta/test.txt',
               '/content/gdrive/MyDrive/food-101/images', 'test_data')
```

Creating our test data...

Preparing the required data...

Looking into food items...

Copying the required data into folders...

Done!

In [78]:

```
%cd /content/gdrive/My Drive/food-101/test_data

print("\nTotal number of classes of images in the test folder:")

test_samples = os.listdir()
test_files = len(test_samples)
print(test_files)

/content/gdrive/My Drive/food-101/test_data
```

Total number of classes of images in the test folder:  
101

In [15]:

```
print("Total number of samples in the test folder:")
!find /content/gdrive/MyDrive/food-101/test_data -type d -or -type f -printf '.' | wc -c
```

Total number of samples in the test folder:  
25250

### Plot sample images from training and testing datasets.

In [18]:

```
def plot_sample_images(flag):
    '''This function plots random images from train & test folders'''
    rows = 5
    cols = 4
    fig, ax = plt.subplots(rows, cols, figsize=(20, 20))

    # for plotting images in train data
    if flag == 1:
        fig.suptitle("Sample images from train data", y=1.1, fontsize=34) # Adding y=1.05, fontsize=24
    helped me fix the suptitle overlapping with axes issue
    dir = "/content/gdrive/My Drive/food-101/train"
    # for plotting images in train data
    if flag == 0:
        fig.suptitle("Sample images from test data", y=1.1, fontsize=34)
        dir = "/content/gdrive/My Drive/food-101/test_data"
    sorted_food_items = sorted(os.listdir(dir))
    food_id = 0
    for i in range(rows):
        for j in range(cols):
            try:
                selected_food_items = sorted_food_items[food_id]
                food_id += 1
            except:
                break
            if selected_food_items == '.DS_Store':
                continue

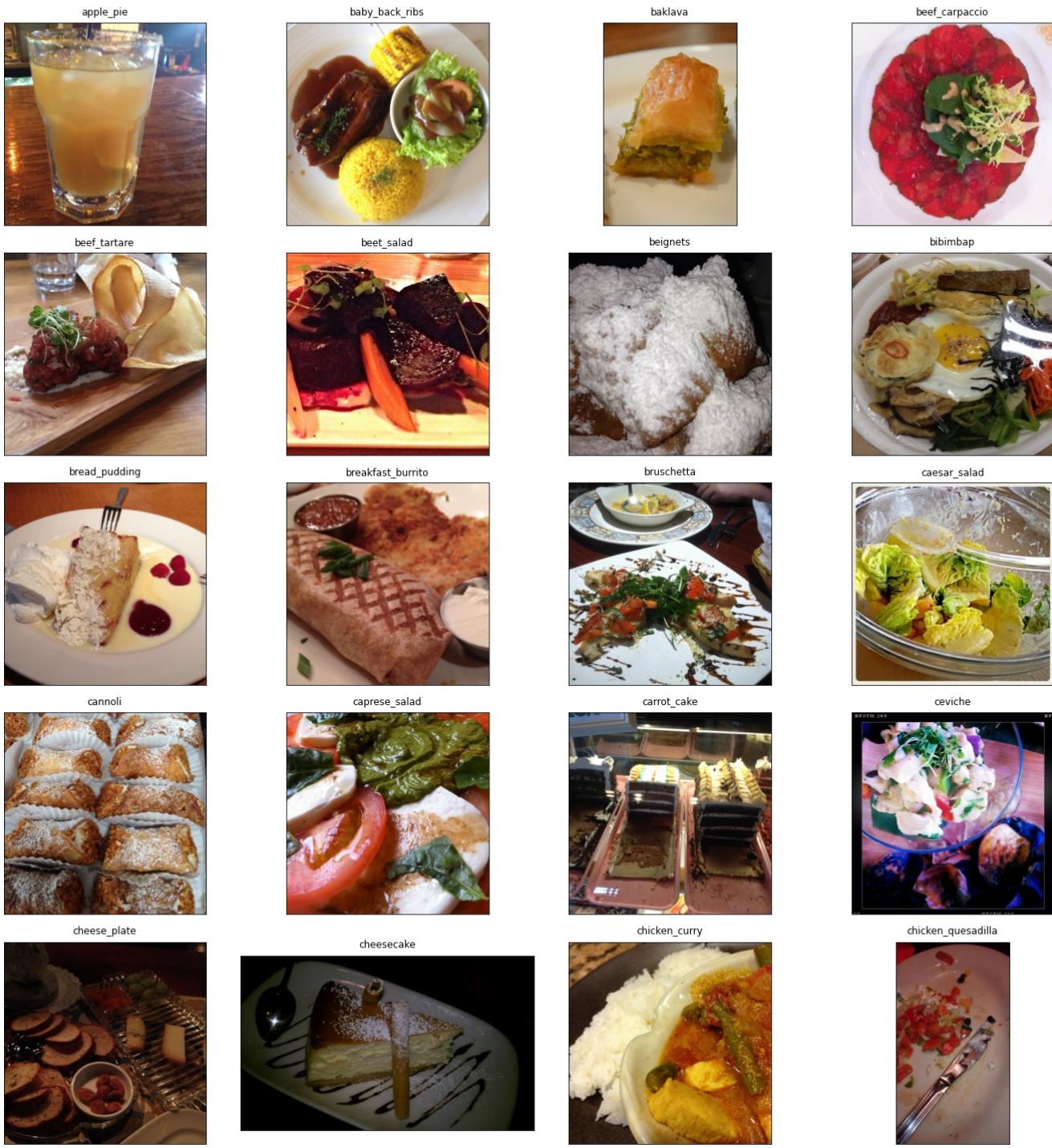
            selected_images = os.listdir(os.path.join(dir, selected_food_items))
            random_images = np.random.choice(selected_images)
            img = plt.imread(os.path.join(dir, selected_food_items, random_images))
            ax[i][j].imshow(img)
            ax[i][j].set_title(selected_food_items, pad=10)

    plt.setp(ax, xticks=[], yticks[])
    plt.tight_layout()
```

In [22]:

```
# plotting sample images from train data
plot_sample_images(1)
```

Sample images from train data



In [23]:

```
# plotting sample images from test data
plot_sample_images(0)
```

## Sample images from test data





In [17]:

```
%cd /content/gdrive/My Drive/food-101/
```

```
/content/gdrive/My Drive/food-101
```

### Create sample data.

As my colab is crashing frequently while using all the given data & also, training models using the whole data will take days, I will be using partial dataset for this case study. Thus, here I am sampling/creating new small train & test datasets from the given data & will be training and testing my models on these selected few classes of images. Thus, taking into account the resources & time at hand, I will be proceeding with food items belonging to a subset of classes.

The same concept can be further extended to build models using all the given data & classifying images from all 101 classes of food items.

In [79]:

```
def create_sample_data(list_food_items, source, destination):
    '''This method creates a sample subset of data from train & test datasets'''

    print("\nPreparing...")
    if os.path.exists(destination):
        rmtree(destination)
    os.makedirs(destination)
    for item in list_food_items:
        copytree(os.path.join(source, item), os.path.join(destination, item))
    print("\nDone!")
```

In [80]:

```
list_food_items = ['apple_pie', 'omelette', 'pizza']
source_train = 'train'
destination_train = 'train_new'
source_test = 'test_data'
destination_test = 'test_new'

print("Creating train data folder with new classes")
create_sample_data(list_food_items, source_train, destination_train)

print("\nCreating test data folder with new classes")
create_sample_data(list_food_items, source_test, destination_test)
```

Creating train data folder with new classes

Preparing...

Done!

Creating test data folder with new classes

Preparing...

Done!

In [19]:

```
print("Total number of samples in the train_new folder:")
!find /content/gdrive/MyDrive/food-101/train_new -type d -or -type f -printf '.' | wc -c

print("\nTotal number of samples in the test_new folder:")
!find /content/gdrive/MyDrive/food-101/test_new -type d -or -type f -printf '.' | wc -c
```

Total number of samples in the train\_new folder:  
2250

Total number of samples in the test\_new folder:  
750

## Pre-process Images

### Objectives

1. Implement preprocessing codes for each model.
2. Augment the dataset.
3. Preview the preprocessed dataset.

### Preprocessing steps for light model

In [ ]:

```
K.clear_session()
n_classes = 3
img_width, img_height = 299, 299
train_data_dir = '/content/gdrive/My Drive/food-101/train_new'
validation_data_dir = '/content/gdrive/My Drive/food-101/test_new'
nb_train_samples = 2250      # 75750
nb_validation_samples = 750    # 25250
batch_size = 16

# Image Augmentation
train_datagen = ImageDataGenerator(
            rotation_range=40,
            width_shift_range=0.2,
            height_shift_range=0.2,
            rescale=1./255,
            shear_range=0.)
```

```

        shear_range=0.2,
        zoom_range=[.8, 1],
        horizontal_flip=True,
        channel_shift_range=30,
        fill_mode='nearest')

test_datagen = ImageDataGenerator(rescale=1./255)

train_generator = train_datagen.flow_from_directory(
    train_data_dir,
    target_size=(img_height, img_width),
    batch_size=batch_size,
    class_mode='categorical')

validation_generator = test_datagen.flow_from_directory(
    validation_data_dir,
    target_size=(img_height, img_width),
    batch_size=batch_size,
    class_mode='categorical')

```

Found 2250 images belonging to 3 classes.

Found 750 images belonging to 3 classes.

## Preprocessing steps for medium model

In [ ]:

```

from tqdm import tqdm
from PIL import Image
import torch
import torchvision
from torch.utils.tensorboard import SummaryWriter
from torchvision.models.resnet import resnet50

```

In [ ]:

```
!pip install torch-lr-finder
```

```

Collecting torch-lr-finder
  Downloading https://files.pythonhosted.org/packages/ea/51/1a869067989a0fdaf18e49f0ee3aebfcb6347052524
5aac7dc390cfc676a/torch_lr_finder-0.2.1-py3-none-any.whl
Requirement already satisfied: tqdm in /usr/local/lib/python3.7/dist-packages (from torch-lr-finder) (4
.41.1)
Requirement already satisfied: torch>=0.4.1 in /usr/local/lib/python3.7/dist-packages (from torch-lr-fi
nder) (1.7.0+cu101)
Requirement already satisfied: numpy in /usr/local/lib/python3.7/dist-packages (from torch-lr-finder) (1
.19.5)
Requirement already satisfied: packaging in /usr/local/lib/python3.7/dist-packages (from torch-lr-finde
r) (20.9)
Requirement already satisfied: matplotlib in /usr/local/lib/python3.7/dist-packages (from torch-lr-find
er) (3.2.2)
Requirement already satisfied: future in /usr/local/lib/python3.7/dist-packages (from torch>=0.4.1->tor
ch-lr-finder) (0.16.0)
Requirement already satisfied: typing-extensions in /usr/local/lib/python3.7/dist-packages (from torch>
=0.4.1->torch-lr-finder) (3.7.4.3)
Requirement already satisfied: dataclasses in /usr/local/lib/python3.7/dist-packages (from torch>=0.4.1
->torch-lr-finder) (0.6)
Requirement already satisfied: pyparsing>=2.0.2 in /usr/local/lib/python3.7/dist-packages (from packagi
ng->torch-lr-finder) (2.4.7)
Requirement already satisfied: cycler>=0.10 in /usr/local/lib/python3.7/dist-packages (from matplotlib-
>torch-lr-finder) (0.10.0)
Requirement already satisfied: kiwisolver>=1.0.1 in /usr/local/lib/python3.7/dist-packages (from matplo
tlib->torch-lr-finder) (1.3.1)
Requirement already satisfied: python-dateutil>=2.1 in /usr/local/lib/python3.7/dist-packages (from mat
plotlib->torch-lr-finder) (2.8.1)
Requirement already satisfied: six in /usr/local/lib/python3.7/dist-packages (from cycler>=0.10->matplo
tlib->torch-lr-finder) (1.15.0)
Installing collected packages: torch-lr-finder
Successfully installed torch-lr-finder-0.2.1

```

In [ ]:

```
from torch_lr_finder import LRFinder
```

In [ ]:

```
train_transforms = torchvision.transforms.Compose([
    torchvision.transforms.ColorJitter(brightness=0.1, contrast=0.1, saturation=0.1),
    torchvision.transforms.RandomAffine(15),
    torchvision.transforms.RandomHorizontalFlip(),
    torchvision.transforms.RandomRotation(15),
    torchvision.transforms.Resize((224, 224)),
    torchvision.transforms.ToTensor(),
    torchvision.transforms.Normalize((0.485, 0.456, 0.406), (0.229, 0.224, 0.225))
])
test_transforms = torchvision.transforms.Compose([
    torchvision.transforms.Resize((224, 224)),
    torchvision.transforms.ToTensor(),
    torchvision.transforms.Normalize(mean=(0.485, 0.456, 0.406), std=(0.229, 0.224, 0.225)),
])
```

In [ ]:

```
train_dataset = torchvision.datasets.ImageFolder('/content/gdrive/MyDrive/food-101/train_new', transform=train_transforms)
test_dataset = torchvision.datasets.ImageFolder('/content/gdrive/MyDrive/food-101/test_new', transform=test_transforms)
```

In [ ]:

```
batch_size = 64
train_loader = torch.utils.data.DataLoader(train_dataset, batch_size, shuffle=True,
                                            num_workers=4, pin_memory=True)
test_loader = torch.utils.data.DataLoader(test_dataset, batch_size, shuffle=False,
                                            num_workers=4, pin_memory=True)
```

## Preprocessing steps for heavier model

In [ ]:

```
K.clear_session()
n_classes = 3
img_width, img_height = 299, 299
train_data_dir = '/content/gdrive/My Drive/food-101/train_new'
validation_data_dir = '/content/gdrive/My Drive/food-101/test_new'
nb_train_samples = 2250      # 75750
nb_validation_samples = 750      # 25250
batch_size = 16

# Image Augmentation
train_datagen = ImageDataGenerator(
    rotation_range=40,
    width_shift_range=0.2,
    height_shift_range=0.2,
    rescale=1./255,
    shear_range=0.2,
    zoom_range=[.8, 1],
    horizontal_flip=True,
    channel_shift_range=30,
    fill_mode='nearest')

test_datagen = ImageDataGenerator(rescale=1./255)

train_generator = train_datagen.flow_from_directory(
    train_data_dir,
    target_size=(img_height, img_width),
    batch_size=batch_size,
    class_mode='categorical')

validation_generator = test_datagen.flow_from_directory(
    validation_data_dir,
    target_size=(img_height, img_width),
```

```
batch_size=batch_size,  
class_mode='categorical')
```

Found 2250 images belonging to 3 classes.  
Found 750 images belonging to 3 classes.

## Training different models

### Objectives

1. Obtain 90% accuracy in all the models trained.
2. You're free to use any techniques for training such as transfer learning, knowledge transfer, etc.
3. The models should not overfit the training dataset.
4. Measure the performance in terms of accuracy and speed of each model.
5. Visualize the training and testing performance using TensorBoard.

#### Optional:

1. Apply weight quantization to increase the speed of the models.

## Train Light model

In [27]:

```
model_mn = MobileNetV2(weights='imagenet', include_top=False)  
model_mn.trainable = False  
x = model_mn.output  
x = GlobalAveragePooling2D()(x)  
x = Dropout(0.2)(x)  
x = Dense(256, activation='relu')(x)  
x = BatchNormalization()(x)  
x = Dropout(0.1)(x)  
predictions_mn = Dense(n_classes, activation='softmax')(x)
```

WARNING:tensorflow: `input\_shape` is undefined or non-square, or `rows` is not in [96, 128, 160, 192, 224]. Weights for input shape (224, 224) will be loaded as the default.

In [28]:

```
model_mn = Model(inputs=model_mn.input, outputs=predictions_mn)  
model_mn.compile(optimizer=Adam(), loss='categorical_crossentropy',  
                  metrics=['accuracy'])  
checkpoint = ModelCheckpoint(filepath='best_model_mobilenet.hdf5', verbose=1,  
                             monitor='val_accuracy', save_best_only=True)  
csv_logger = CSVLogger('history_mobilenet.log')  
earlystop = EarlyStopping(monitor='val_accuracy', mode='max', patience=2, verbose=1)  
log_dir="content/gdrive/MyDrive/food-101/logs_model_mobilenet\\fit\\" + datetime.datetime.now().strftime("%Y%m%d-%H%M%S")  
tensorboard_callback = tf.keras.callbacks.TensorBoard(log_dir=log_dir, histogram_freq=1,  
                                                    write_graph=True, write_grads=True)  
  
def schedule(epoch):  
    if epoch < 5:  
        return .0005  
    elif epoch < 18:  
        return .00001  
    else:  
        return .000002  
lr_scheduler = LearningRateScheduler(schedule)
```

WARNING:tensorflow: `write\_grads` will be ignored in TensorFlow 2.0 for the `TensorBoard` Callback.

In [29]:

```
model_mn.summary()
```

Model: "model"

Layer (type)	Output Shape	Param #	Connected to
input_3 (InputLayer)	[None, None, None, 0]		
Conv1 (Conv2D)	(None, None, None, 3 864	input_3[0][0]	
bn_Conv1 (BatchNormalization)	(None, None, None, 3 128	Conv1[0][0]	
Conv1_relu (ReLU)	(None, None, None, 3 0	bn_Conv1[0][0]	
expanded_conv_depthwise (DepthwiseConv2D)	(None, None, None, 3 288	Conv1_relu[0][0]	
expanded_conv_depthwise_BN (BatchNormalization)	(None, None, None, 3 128	expanded_conv_depthwise[0][0]	
expanded_conv_depthwise_relu (ReLU)	(None, None, None, 3 0	expanded_conv_depthwise_BN[0][0]	
expanded_conv_project (Conv2D)	(None, None, None, 1 512	expanded_conv_depthwise_relu[0][0]	
expanded_conv_project_BN (BatchNormalization)	(None, None, None, 1 64	expanded_conv_project[0][0]	
block_1_expand (Conv2D)	(None, None, None, 9 1536	expanded_conv_project_BN[0][0]	
block_1_expand_BN (BatchNormalization)	(None, None, None, 9 384	block_1_expand[0][0]	
block_1_expand_relu (ReLU)	(None, None, None, 9 0	block_1_expand_BN[0][0]	
block_1_pad (ZeroPadding2D)	(None, None, None, 9 0	block_1_expand_relu[0][0]	
block_1_depthwise (DepthwiseConv2D)	(None, None, None, 9 864	block_1_pad[0][0]	
block_1_depthwise_BN (BatchNormalization)	(None, None, None, 9 384	block_1_depthwise[0][0]	
block_1_depthwise_relu (ReLU)	(None, None, None, 9 0	block_1_depthwise_BN[0][0]	
block_1_project (Conv2D)	(None, None, None, 2 2304	block_1_depthwise_relu[0][0]	
block_1_project_BN (BatchNormalization)	(None, None, None, 2 96	block_1_project[0][0]	
block_2_expand (Conv2D)	(None, None, None, 1 3456	block_1_project_BN[0][0]	
block_2_expand_BN (BatchNormalization)	(None, None, None, 1 576	block_2_expand[0][0]	
block_2_expand_relu (ReLU)	(None, None, None, 1 0	block_2_expand_BN[0][0]	
block_2_depthwise (DepthwiseConv2D)	(None, None, None, 1 1296	block_2_expand_relu[0][0]	
block_2_depthwise_BN (BatchNormalization)	(None, None, None, 1 576	block_2_depthwise[0][0]	
block_2_depthwise_relu (ReLU)	(None, None, None, 1 0	block_2_depthwise_BN[0][0]	
block_2_project (Conv2D)	(None, None, None, 2 3456	block_2_depthwise_relu[0][0]	
block_2_project_BN (BatchNormalization)	(None, None, None, 2 96	block_2_project[0][0]	
block_2_add (Add)	(None, None, None, 2 0	block_1_project_BN[0][0] block_2_project_BN[0][0]	
block_3_expand (Conv2D)	(None, None, None, 1 3456	block_2_add[0][0]	
block_3_expand_BN (BatchNormalization)	(None, None, None, 1 576	block_3_expand[0][0]	
block_3_expand_relu (ReLU)	(None, None, None, 1 0	block_3_expand_BN[0][0]	
block_3_pad (ZeroPadding2D)	(None, None, None, 1 0	block_3_expand_relu[0][0]	
block_3_depthwise (DepthwiseConv2D)	(None, None, None, 1 1296	block_3_pad[0][0]	
block_3_depthwise_BN (BatchNormalization)	(None, None, None, 1 576	block_3_depthwise[0][0]	
block_3_depthwise_relu (ReLU)	(None, None, None, 1 0	block_3_depthwise_BN[0][0]	
block_3_project (Conv2D)	(None, None, None, 3 4608	block_3_depthwise_relu[0][0]	

block_3_project_BN (BatchNormal (None, None, None, 3 128		block_3_project[0][0]
block_4_expand (Conv2D) (None, None, None, 1 6144		block_3_project_BN[0][0]
block_4_expand_BN (BatchNormali (None, None, None, 1 768		block_4_expand[0][0]
block_4_expand_relu (ReLU) (None, None, None, 1 0		block_4_expand_BN[0][0]
block_4_depthwise (DepthwiseCon (None, None, None, 1 1728		block_4_expand_relu[0][0]
block_4_depthwise_BN (BatchNorm (None, None, None, 1 768		block_4_depthwise[0][0]
block_4_depthwise_relu (ReLU) (None, None, None, 1 0		block_4_depthwise_BN[0][0]
block_4_project (Conv2D) (None, None, None, 3 6144		block_4_depthwise_relu[0][0]
block_4_project_BN (BatchNormal (None, None, None, 3 128		block_4_project[0][0]
block_4_add (Add) (None, None, None, 3 0		block_3_project_BN[0][0] block_4_project_BN[0][0]
block_5_expand (Conv2D) (None, None, None, 1 6144		block_4_add[0][0]
block_5_expand_BN (BatchNormali (None, None, None, 1 768		block_5_expand[0][0]
block_5_expand_relu (ReLU) (None, None, None, 1 0		block_5_expand_BN[0][0]
block_5_depthwise (DepthwiseCon (None, None, None, 1 1728		block_5_expand_relu[0][0]
block_5_depthwise_BN (BatchNorm (None, None, None, 1 768		block_5_depthwise[0][0]
block_5_depthwise_relu (ReLU) (None, None, None, 1 0		block_5_depthwise_BN[0][0]
block_5_project (Conv2D) (None, None, None, 3 6144		block_5_depthwise_relu[0][0]
block_5_project_BN (BatchNormal (None, None, None, 3 128		block_5_project[0][0]
block_5_add (Add) (None, None, None, 3 0		block_4_add[0][0] block_5_project_BN[0][0]
block_6_expand (Conv2D) (None, None, None, 1 6144		block_5_add[0][0]
block_6_expand_BN (BatchNormali (None, None, None, 1 768		block_6_expand[0][0]
block_6_expand_relu (ReLU) (None, None, None, 1 0		block_6_expand_BN[0][0]
block_6_pad (ZeroPadding2D) (None, None, None, 1 0		block_6_expand_relu[0][0]
block_6_depthwise (DepthwiseCon (None, None, None, 1 1728		block_6_pad[0][0]
block_6_depthwise_BN (BatchNorm (None, None, None, 1 768		block_6_depthwise[0][0]
block_6_depthwise_relu (ReLU) (None, None, None, 1 0		block_6_depthwise_BN[0][0]
block_6_project (Conv2D) (None, None, None, 6 12288		block_6_depthwise_relu[0][0]
block_6_project_BN (BatchNormal (None, None, None, 6 256		block_6_project[0][0]
block_7_expand (Conv2D) (None, None, None, 3 24576		block_6_project_BN[0][0]
block_7_expand_BN (BatchNormali (None, None, None, 3 1536		block_7_expand[0][0]
block_7_expand_relu (ReLU) (None, None, None, 3 0		block_7_expand_BN[0][0]
block_7_depthwise (DepthwiseCon (None, None, None, 3 3456		block_7_expand_relu[0][0]
block_7_depthwise_BN (BatchNorm (None, None, None, 3 1536		block_7_depthwise[0][0]
block_7_depthwise_relu (ReLU) (None, None, None, 3 0		block_7_depthwise_BN[0][0]
block_7_project (Conv2D) (None, None, None, 6 24576		block_7_depthwise_relu[0][0]
block_7_project_BN (BatchNormal (None, None, None, 6 256		block_7_project[0][0]
block_7_add (Add) (None, None, None, 6 0		block_6_project_BN[0][0] block_7_project_BN[0][0]

block_8_expand (Conv2D)	(None, None, None, 3 24576	block_7_add[0] [0]
block_8_expand_BN (BatchNormali	(None, None, None, 3 1536	block_8_expand[0] [0]
block_8_expand_relu (ReLU)	(None, None, None, 3 0	block_8_expand_BN[0] [0]
block_8_depthwise (DepthwiseCon	(None, None, None, 3 3456	block_8_expand_relu[0] [0]
block_8_depthwise_BN (BatchNorm	(None, None, None, 3 1536	block_8_depthwise[0] [0]
block_8_depthwise_relu (ReLU)	(None, None, None, 3 0	block_8_depthwise_BN[0] [0]
block_8_project (Conv2D)	(None, None, None, 6 24576	block_8_depthwise_relu[0] [0]
block_8_project_BN (BatchNormal	(None, None, None, 6 256	block_8_project[0] [0]
block_8_add (Add)	(None, None, None, 6 0	block_7_add[0] [0] block_8_project_BN[0] [0]
block_9_expand (Conv2D)	(None, None, None, 3 24576	block_8_add[0] [0]
block_9_expand_BN (BatchNormali	(None, None, None, 3 1536	block_9_expand[0] [0]
block_9_expand_relu (ReLU)	(None, None, None, 3 0	block_9_expand_BN[0] [0]
block_9_depthwise (DepthwiseCon	(None, None, None, 3 3456	block_9_expand_relu[0] [0]
block_9_depthwise_BN (BatchNorm	(None, None, None, 3 1536	block_9_depthwise[0] [0]
block_9_depthwise_relu (ReLU)	(None, None, None, 3 0	block_9_depthwise_BN[0] [0]
block_9_project (Conv2D)	(None, None, None, 6 24576	block_9_depthwise_relu[0] [0]
block_9_project_BN (BatchNormal	(None, None, None, 6 256	block_9_project[0] [0]
block_9_add (Add)	(None, None, None, 6 0	block_8_add[0] [0] block_9_project_BN[0] [0]
block_10_expand (Conv2D)	(None, None, None, 3 24576	block_9_add[0] [0]
block_10_expand_BN (BatchNormal	(None, None, None, 3 1536	block_10_expand[0] [0]
block_10_expand_relu (ReLU)	(None, None, None, 3 0	block_10_expand_BN[0] [0]
block_10_depthwise (DepthwiseCo	(None, None, None, 3 3456	block_10_expand_relu[0] [0]
block_10_depthwise_BN (BatchNor	(None, None, None, 3 1536	block_10_depthwise[0] [0]
block_10_depthwise_relu (ReLU)	(None, None, None, 3 0	block_10_depthwise_BN[0] [0]
block_10_project (Conv2D)	(None, None, None, 9 36864	block_10_depthwise_relu[0] [0]
block_10_project_BN (BatchNorma	(None, None, None, 9 384	block_10_project[0] [0]
block_11_expand (Conv2D)	(None, None, None, 5 55296	block_10_project_BN[0] [0]
block_11_expand_BN (BatchNormal	(None, None, None, 5 2304	block_11_expand[0] [0]
block_11_expand_relu (ReLU)	(None, None, None, 5 0	block_11_expand_BN[0] [0]
block_11_depthwise (DepthwiseCo	(None, None, None, 5 5184	block_11_expand_relu[0] [0]
block_11_depthwise_BN (BatchNor	(None, None, None, 5 2304	block_11_depthwise[0] [0]
block_11_depthwise_relu (ReLU)	(None, None, None, 5 0	block_11_depthwise_BN[0] [0]
block_11_project (Conv2D)	(None, None, None, 9 55296	block_11_depthwise_relu[0] [0]
block_11_project_BN (BatchNorma	(None, None, None, 9 384	block_11_project[0] [0]
block_11_add (Add)	(None, None, None, 9 0	block_10_project_BN[0] [0] block_11_project_BN[0] [0]
block_12_expand (Conv2D)	(None, None, None, 5 55296	block_11_add[0] [0]
block_12_expand_BN (BatchNormal	(None, None, None, 5 2304	block_12_expand[0] [0]

block_12_expand_relu (ReLU)	(None, None, None, 5 0	block_12_expand_BN[0] [0]
block_12_depthwise (DepthwiseCo	(None, None, None, 5 5184	block_12_expand_relu[0] [0]
block_12_depthwise_BN (BatchNor	(None, None, None, 5 2304	block_12_depthwise[0] [0]
block_12_depthwise_relu (ReLU)	(None, None, None, 5 0	block_12_depthwise_BN[0] [0]
block_12_project (Conv2D)	(None, None, None, 9 55296	block_12_depthwise_relu[0] [0]
block_12_project_BN (BatchNorma	(None, None, None, 9 384	block_12_project[0] [0]
block_12_add (Add)	(None, None, None, 9 0	block_11_add[0] [0] block_12_project_BN[0] [0]
block_13_expand (Conv2D)	(None, None, None, 5 55296	block_12_add[0] [0]
block_13_expand_BN (BatchNormal	(None, None, None, 5 2304	block_13_expand[0] [0]
block_13_expand_relu (ReLU)	(None, None, None, 5 0	block_13_expand_BN[0] [0]
block_13_pad (ZeroPadding2D)	(None, None, None, 5 0	block_13_expand_relu[0] [0]
block_13_depthwise (DepthwiseCo	(None, None, None, 5 5184	block_13_pad[0] [0]
block_13_depthwise_BN (BatchNor	(None, None, None, 5 2304	block_13_depthwise[0] [0]
block_13_depthwise_relu (ReLU)	(None, None, None, 5 0	block_13_depthwise_BN[0] [0]
block_13_project (Conv2D)	(None, None, None, 1 92160	block_13_depthwise_relu[0] [0]
block_13_project_BN (BatchNorma	(None, None, None, 1 640	block_13_project[0] [0]
block_14_expand (Conv2D)	(None, None, None, 9 153600	block_13_project_BN[0] [0]
block_14_expand_BN (BatchNormal	(None, None, None, 9 3840	block_14_expand[0] [0]
block_14_expand_relu (ReLU)	(None, None, None, 9 0	block_14_expand_BN[0] [0]
block_14_depthwise (DepthwiseCo	(None, None, None, 9 8640	block_14_expand_relu[0] [0]
block_14_depthwise_BN (BatchNor	(None, None, None, 9 3840	block_14_depthwise[0] [0]
block_14_depthwise_relu (ReLU)	(None, None, None, 9 0	block_14_depthwise_BN[0] [0]
block_14_project (Conv2D)	(None, None, None, 1 153600	block_14_depthwise_relu[0] [0]
block_14_project_BN (BatchNorma	(None, None, None, 1 640	block_14_project[0] [0]
block_14_add (Add)	(None, None, None, 1 0	block_13_project_BN[0] [0] block_14_project_BN[0] [0]
block_15_expand (Conv2D)	(None, None, None, 9 153600	block_14_add[0] [0]
block_15_expand_BN (BatchNormal	(None, None, None, 9 3840	block_15_expand[0] [0]
block_15_expand_relu (ReLU)	(None, None, None, 9 0	block_15_expand_BN[0] [0]
block_15_depthwise (DepthwiseCo	(None, None, None, 9 8640	block_15_expand_relu[0] [0]
block_15_depthwise_BN (BatchNor	(None, None, None, 9 3840	block_15_depthwise[0] [0]
block_15_depthwise_relu (ReLU)	(None, None, None, 9 0	block_15_depthwise_BN[0] [0]
block_15_project (Conv2D)	(None, None, None, 1 153600	block_15_depthwise_relu[0] [0]
block_15_project_BN (BatchNorma	(None, None, None, 1 640	block_15_project[0] [0]
block_15_add (Add)	(None, None, None, 1 0	block_14_add[0] [0] block_15_project_BN[0] [0]
block_16_expand (Conv2D)	(None, None, None, 9 153600	block_15_add[0] [0]
block_16_expand_BN (BatchNormal	(None, None, None, 9 3840	block_16_expand[0] [0]
block_16_expand_relu (ReLU)	(None, None, None, 9 0	block_16_expand_BN[0] [0]

block_16_depthwise (DepthwiseConv2D) (None, None, None, 9)	8640	block_16_expand_relu[0] [0]
block_16_depthwise_BN (BatchNormalization) (None, None, None, 9)	3840	block_16_depthwise[0] [0]
block_16_depthwise_relu (ReLU) (None, None, None, 9)	0	block_16_depthwise_BN[0] [0]
block_16_project (Conv2D) (None, None, None, 3)	307200	block_16_depthwise_relu[0] [0]
block_16_project_BN (BatchNormalization) (None, None, None, 3)	1280	block_16_project[0] [0]
Conv_1 (Conv2D) (None, None, None, 1)	409600	block_16_project_BN[0] [0]
Conv_1_bn (BatchNormalization) (None, None, None, 1)	5120	Conv_1[0] [0]
out_relu (ReLU) (None, None, None, 1)	0	Conv_1_bn[0] [0]
global_average_pooling2d_2 (GlobalAveragePooling2D) (None, 1280)	0	out_relu[0] [0]
dropout_3 (Dropout) (None, 1280)	0	global_average_pooling2d_2[0] [0]
dense_2 (Dense) (None, 256)	327936	dropout_3[0] [0]
batch_normalization_1 (BatchNormalization) (None, 256)	1024	dense_2[0] [0]
dropout_4 (Dropout) (None, 256)	0	batch_normalization_1[0] [0]
dense_3 (Dense) (None, 3)	771	dropout_4[0] [0]

Total params: 2,587,715

Trainable params: 329,219

Non-trainable params: 2,258,496

In [30]:

```
history = model_mn.fit(train_generator,
                        steps_per_epoch=nb_train_samples // batch_size,
                        validation_data=validation_generator,
                        validation_steps=nb_validation_samples // batch_size,
                        epochs=20, verbose=1,
                        callbacks=[csv_logger, checkpoint, earlystop, tensorboard_callback])
```

Epoch 1/20

140/140 [=====] - 1157s 8s/step - loss: 0.8408 - accuracy: 0.6836 - val\_loss: 0.3773 - val\_accuracy: 0.8397

Epoch 00001: val\_accuracy improved from -inf to 0.83967, saving model to best\_model\_mobilenet.hdf5

Epoch 2/20

140/140 [=====] - 54s 388ms/step - loss: 0.4907 - accuracy: 0.8248 - val\_loss: 0.2770 - val\_accuracy: 0.9035

Epoch 00002: val\_accuracy improved from 0.83967 to 0.90353, saving model to best\_model\_mobilenet.hdf5

Epoch 3/20

140/140 [=====] - 54s 389ms/step - loss: 0.4640 - accuracy: 0.8263 - val\_loss: 0.3019 - val\_accuracy: 0.8886

Epoch 00003: val\_accuracy did not improve from 0.90353

Epoch 4/20

140/140 [=====] - 54s 387ms/step - loss: 0.4284 - accuracy: 0.8396 - val\_loss: 0.2750 - val\_accuracy: 0.8954

Epoch 00004: val\_accuracy did not improve from 0.90353

Epoch 00004: early stopping

In [31]:

```
print("Saving the model...")
model_mn.save('my_model_trained_mobilenet.hdf5')
print("\nDone!")
```

Saving the model...

Done!

In [39]:

```
import pickle
import resource
import sys

print(resource.getrlimit(resource.RLIMIT_STACK))
print(sys.getrecursionlimit())

max_rec = 0x100000

# May segfault without this line. 0x100 is a guess at the size of each stack frame.
resource.setrlimit(resource.RLIMIT_STACK, [0x100 * max_rec, resource.RLIM_INFINITY])
sys.setrecursionlimit(max_rec)

print("\n")
print(resource.getrlimit(resource.RLIMIT_STACK))
print(sys.getrecursionlimit())
```

(8388608, -1)  
1000

(268435456, -1)  
1048576

In [ ]:

```
from keras.models import load_model

model_mn = load_model('my_model_trained_mobilenet.h5')
```

In [33]:

```
print(log_dir)
```

content/gdrive/MyDrive/food-101/logs\_model\_mobilenet\fit\20210226-065811

In [62]:

```
%load_ext tensorboard
```

In [64]:

```
%tensorboard --inspect --logdir content/gdrive/MyDrive/food-101/logs_model_mobilenet\\fit\\20210226-065811
```

ERROR: Failed to launch TensorBoard (exited with 0).

Contents of stderr:

```
2021-02-26 07:59:08.682151: I tensorflow/stream_executor/platform/default/dso_loader.cc:49] Successfully opened dynamic library libcudart.so.10.1
```

Contents of stdout:

```
=====
Processing event files... (this can take a few minutes)
=====
```

Found event files in:

```
content/gdrive/MyDrive/food-101/logs_model_mobilenet\fit\20210226-065811/train
content/gdrive/MyDrive/food-101/logs_model_mobilenet\fit\20210226-065811/validation
```

These tags are in content/gdrive/MyDrive/food-101/logs\_model\_mobilenet\fit\20210226-065811/train:

```
audio -
histograms
Conv1/kernel_0
Conv_1/kernel_0
Conv_1_bn/beta_0
Conv_1_bn/gamma_0
Conv_1_bn/moving_mean_0
Conv_1_bn/moving_variance_0
```

conv\_+\_sum/moving\_variance\_0  
batch\_normalization\_1/beta\_0  
batch\_normalization\_1/gamma\_0  
batch\_normalization\_1/moving\_mean\_0  
batch\_normalization\_1/moving\_variance\_0  
block\_10\_depthwise/depthwise\_kernel\_0  
block\_10\_depthwise\_BN/beta\_0  
block\_10\_depthwise\_BN/gamma\_0  
block\_10\_depthwise\_BN/moving\_mean\_0  
block\_10\_depthwise\_BN/moving\_variance\_0  
block\_10\_expand/kernel\_0  
block\_10\_expand\_BN/beta\_0  
block\_10\_expand\_BN/gamma\_0  
block\_10\_expand\_BN/moving\_mean\_0  
block\_10\_expand\_BN/moving\_variance\_0  
block\_10\_project/kernel\_0  
block\_10\_project\_BN/beta\_0  
block\_10\_project\_BN/gamma\_0  
block\_10\_project\_BN/moving\_mean\_0  
block\_10\_project\_BN/moving\_variance\_0  
block\_11\_depthwise/depthwise\_kernel\_0  
block\_11\_depthwise\_BN/beta\_0  
block\_11\_depthwise\_BN/gamma\_0  
block\_11\_depthwise\_BN/moving\_mean\_0  
block\_11\_depthwise\_BN/moving\_variance\_0  
block\_11\_expand/kernel\_0  
block\_11\_expand\_BN/beta\_0  
block\_11\_expand\_BN/gamma\_0  
block\_11\_expand\_BN/moving\_mean\_0  
block\_11\_expand\_BN/moving\_variance\_0  
block\_11\_project/kernel\_0  
block\_11\_project\_BN/beta\_0  
block\_11\_project\_BN/gamma\_0  
block\_11\_project\_BN/moving\_mean\_0  
block\_11\_project\_BN/moving\_variance\_0  
block\_12\_depthwise/depthwise\_kernel\_0  
block\_12\_depthwise\_BN/beta\_0  
block\_12\_depthwise\_BN/gamma\_0  
block\_12\_depthwise\_BN/moving\_mean\_0  
block\_12\_depthwise\_BN/moving\_variance\_0  
block\_12\_expand/kernel\_0  
block\_12\_expand\_BN/beta\_0  
block\_12\_expand\_BN/gamma\_0  
block\_12\_expand\_BN/moving\_mean\_0  
block\_12\_expand\_BN/moving\_variance\_0  
block\_12\_project/kernel\_0  
block\_12\_project\_BN/beta\_0  
block\_12\_project\_BN/gamma\_0  
block\_12\_project\_BN/moving\_mean\_0  
block\_12\_project\_BN/moving\_variance\_0  
block\_13\_depthwise/depthwise\_kernel\_0  
block\_13\_depthwise\_BN/beta\_0  
block\_13\_depthwise\_BN/gamma\_0  
block\_13\_depthwise\_BN/moving\_mean\_0  
block\_13\_depthwise\_BN/moving\_variance\_0  
block\_13\_expand/kernel\_0  
block\_13\_expand\_BN/beta\_0  
block\_13\_expand\_BN/gamma\_0  
block\_13\_expand\_BN/moving\_mean\_0  
block\_13\_expand\_BN/moving\_variance\_0  
block\_13\_project/kernel\_0  
block\_13\_project\_BN/beta\_0  
block\_13\_project\_BN/gamma\_0  
block\_13\_project\_BN/moving\_mean\_0  
block\_13\_project\_BN/moving\_variance\_0  
block\_14\_depthwise/depthwise\_kernel\_0  
block\_14\_depthwise\_BN/beta\_0  
block\_14\_depthwise\_BN/gamma\_0  
block\_14\_depthwise\_BN/moving\_mean\_0  
block\_14\_depthwise\_BN/moving\_variance\_0  
block\_14\_expand/kernel\_0  
block\_14\_expand\_BN/beta\_0  
block\_14\_expand\_BN/gamma\_0  
block\_14\_expand\_BN/moving\_mean\_0  
block\_14\_expand\_BN/moving\_variance\_0  
block\_14\_project/kernel\_0  
block\_14\_project\_BN/beta\_0  
block\_14\_project\_BN/gamma\_0

block\_14\_project\_BN/moving\_mean\_0  
block\_14\_project\_BN/moving\_variance\_0  
block\_15\_depthwise/depthwise\_kernel\_0  
block\_15\_depthwise\_BN/beta\_0  
block\_15\_depthwise\_BN/gamma\_0  
block\_15\_depthwise\_BN/moving\_mean\_0  
block\_15\_depthwise\_BN/moving\_variance\_0  
block\_15\_expand/kernel\_0  
block\_15\_expand\_BN/beta\_0  
block\_15\_expand\_BN/gamma\_0  
block\_15\_expand\_BN/moving\_mean\_0  
block\_15\_expand\_BN/moving\_variance\_0  
block\_15\_project/kernel\_0  
block\_15\_project\_BN/beta\_0  
block\_15\_project\_BN/gamma\_0  
block\_15\_project\_BN/moving\_mean\_0  
block\_15\_project\_BN/moving\_variance\_0  
block\_16\_depthwise/depthwise\_kernel\_0  
block\_16\_depthwise\_BN/beta\_0  
block\_16\_depthwise\_BN/gamma\_0  
block\_16\_depthwise\_BN/moving\_mean\_0  
block\_16\_depthwise\_BN/moving\_variance\_0  
block\_16\_expand/kernel\_0  
block\_16\_expand\_BN/beta\_0  
block\_16\_expand\_BN/gamma\_0  
block\_16\_expand\_BN/moving\_mean\_0  
block\_16\_expand\_BN/moving\_variance\_0  
block\_16\_project/kernel\_0  
block\_16\_project\_BN/beta\_0  
block\_16\_project\_BN/gamma\_0  
block\_16\_project\_BN/moving\_mean\_0  
block\_16\_project\_BN/moving\_variance\_0  
block\_1\_depthwise/depthwise\_kernel\_0  
block\_1\_depthwise\_BN/beta\_0  
block\_1\_depthwise\_BN/gamma\_0  
block\_1\_depthwise\_BN/moving\_mean\_0  
block\_1\_depthwise\_BN/moving\_variance\_0  
block\_1\_expand/kernel\_0  
block\_1\_expand\_BN/beta\_0  
block\_1\_expand\_BN/gamma\_0  
block\_1\_expand\_BN/moving\_mean\_0  
block\_1\_expand\_BN/moving\_variance\_0  
block\_1\_project/kernel\_0  
block\_1\_project\_BN/beta\_0  
block\_1\_project\_BN/gamma\_0  
block\_1\_project\_BN/moving\_mean\_0  
block\_1\_project\_BN/moving\_variance\_0  
block\_2\_depthwise/depthwise\_kernel\_0  
block\_2\_depthwise\_BN/beta\_0  
block\_2\_depthwise\_BN/gamma\_0  
block\_2\_depthwise\_BN/moving\_mean\_0  
block\_2\_depthwise\_BN/moving\_variance\_0  
block\_2\_expand/kernel\_0  
block\_2\_expand\_BN/beta\_0  
block\_2\_expand\_BN/gamma\_0  
block\_2\_expand\_BN/moving\_mean\_0  
block\_2\_expand\_BN/moving\_variance\_0  
block\_2\_project/kernel\_0  
block\_2\_project\_BN/beta\_0  
block\_2\_project\_BN/gamma\_0  
block\_2\_project\_BN/moving\_mean\_0  
block\_2\_project\_BN/moving\_variance\_0  
block\_3\_depthwise/depthwise\_kernel\_0  
block\_3\_depthwise\_BN/beta\_0  
block\_3\_depthwise\_BN/gamma\_0  
block\_3\_depthwise\_BN/moving\_mean\_0  
block\_3\_depthwise\_BN/moving\_variance\_0  
block\_3\_expand/kernel\_0  
block\_3\_expand\_BN/beta\_0  
block\_3\_expand\_BN/gamma\_0  
block\_3\_expand\_BN/moving\_mean\_0  
block\_3\_expand\_BN/moving\_variance\_0  
block\_3\_project/kernel\_0  
block\_3\_project\_BN/beta\_0  
block\_3\_project\_BN/gamma\_0  
block\_3\_project\_BN/moving\_mean\_0  
block\_3\_project\_BN/moving\_variance\_0

block\_3\_project\_BN/moving\_variance\_0  
block\_4\_depthwise/depthwise\_kernel\_0  
block\_4\_depthwise\_BN/beta\_0  
block\_4\_depthwise\_BN/gamma\_0  
block\_4\_depthwise\_BN/moving\_mean\_0  
block\_4\_depthwise\_BN/moving\_variance\_0  
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block\_4\_expand\_BN/gamma\_0  
block\_4\_expand\_BN/moving\_mean\_0  
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block\_4\_project\_BN/gamma\_0  
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block\_5\_depthwise\_BN/moving\_variance\_0  
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block\_6\_depthwise\_BN/moving\_variance\_0  
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block\_6\_expand\_BN/gamma\_0  
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block\_6\_expand\_BN/moving\_variance\_0  
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block\_6\_project\_BN/gamma\_0  
block\_6\_project\_BN/moving\_mean\_0  
block\_6\_project\_BN/moving\_variance\_0  
block\_7\_depthwise/depthwise\_kernel\_0  
block\_7\_depthwise\_BN/beta\_0  
block\_7\_depthwise\_BN/gamma\_0  
block\_7\_depthwise\_BN/moving\_mean\_0  
block\_7\_depthwise\_BN/moving\_variance\_0  
block\_7\_expand/kernel\_0  
block\_7\_expand\_BN/beta\_0  
block\_7\_expand\_BN/gamma\_0  
block\_7\_expand\_BN/moving\_mean\_0  
block\_7\_expand\_BN/moving\_variance\_0  
block\_7\_project/kernel\_0  
block\_7\_project\_BN/beta\_0  
block\_7\_project\_BN/gamma\_0  
block\_7\_project\_BN/moving\_mean\_0  
block\_7\_project\_BN/moving\_variance\_0  
block\_8\_depthwise/depthwise\_kernel\_0  
block\_8\_depthwise\_BN/beta\_0  
block\_8\_depthwise\_BN/gamma\_0  
block\_8\_depthwise\_BN/moving\_mean\_0  
block\_8\_depthwise\_BN/moving\_variance\_0  
block\_8\_expand/kernel\_0  
block\_8\_expand\_BN/beta\_0  
block\_8\_expand\_BN/gamma\_0  
block\_8\_expand\_BN/moving\_mean\_0  
block\_8\_expand\_BN/moving\_variance\_0  
block\_8\_project/kernel\_0  
block\_8\_project\_BN/beta\_0  
block\_8\_project\_BN/gamma\_0  
block\_8\_project\_BN/moving\_mean\_0  
block\_8\_project\_BN/moving\_variance\_0  
block\_9\_depthwise/depthwise\_kernel\_0

```
block_9_depthwise_BN/beta_0
block_9_depthwise_BN/gamma_0
block_9_depthwise_BN/moving_mean_0
block_9_depthwise_BN/moving_variance_0
block_9_expand/kernel_0
block_9_expand_BN/beta_0
block_9_expand_BN/gamma_0
block_9_expand_BN/moving_mean_0
block_9_expand_BN/moving_variance_0
block_9_project/kernel_0
block_9_project_BN/beta_0
block_9_project_BN/gamma_0
block_9_project_BN/moving_mean_0
block_9_project_BN/moving_variance_0
bn_Conv1/beta_0
bn_Conv1/gamma_0
bn_Conv1/moving_mean_0
bn_Conv1/moving_variance_0
dense_2/bias_0
dense_2/kernel_0
dense_3/bias_0
dense_3/kernel_0
expanded_conv_depthwise_depthwise_kernel_0
expanded_conv_depthwise_BN/beta_0
expanded_conv_depthwise_BN/gamma_0
expanded_conv_depthwise_BN/moving_mean_0
expanded_conv_depthwise_BN/moving_variance_0
expanded_conv_project/kernel_0
expanded_conv_project_BN/beta_0
expanded_conv_project_BN/gamma_0
expanded_conv_project_BN/moving_mean_0
expanded_conv_project_BN/moving_variance_0
images -
scalars
epoch_accuracy
epoch_loss
tensor
batch_2
keras
```

---

```
Event statistics for content/gdrive/MyDrive/food-101/logs_model_mobilenet\fit\20210226-065811/train:
audio -
graph
first_step      0
last_step       0
max_step        0
min_step        0
num_steps       1
outoforder_steps []
histograms
first_step      0
last_step       3
max_step        3
min_step        0
num_steps       4
outoforder_steps []
images -
scalars
first_step      0
last_step       3
max_step        3
min_step        0
num_steps       4
outoforder_steps []
sessionlog:checkpoint -
sessionlog:start -
sessionlog:stop -
tensor
first_step      0
last_step       2
max_step        2
min_step        0
num_steps       2
outoforder_steps []
=====
```

```
These tags are in content/gdrive/MyDrive/food-101/logs_model_mobilenet\fit\20210226-065811/validation:  
audio -  
histograms -  
images -  
scalars  
    epoch_accuracy  
    epoch_loss  
tensor -  
=====
```

```
Event statistics for content/gdrive/MyDrive/food-101/logs_model_mobilenet\fit\20210226-065811/validation:  
n:  
audio -  
graph -  
histograms -  
images -  
scalars  
    first_step      0  
    last_step       3  
    max_step        3  
    min_step        0  
    num_steps       4  
    outoforder_steps []  
sessionlog:checkpoint -  
sessionlog:start -  
sessionlog:stop -  
tensor -  
=====
```

In [65]:

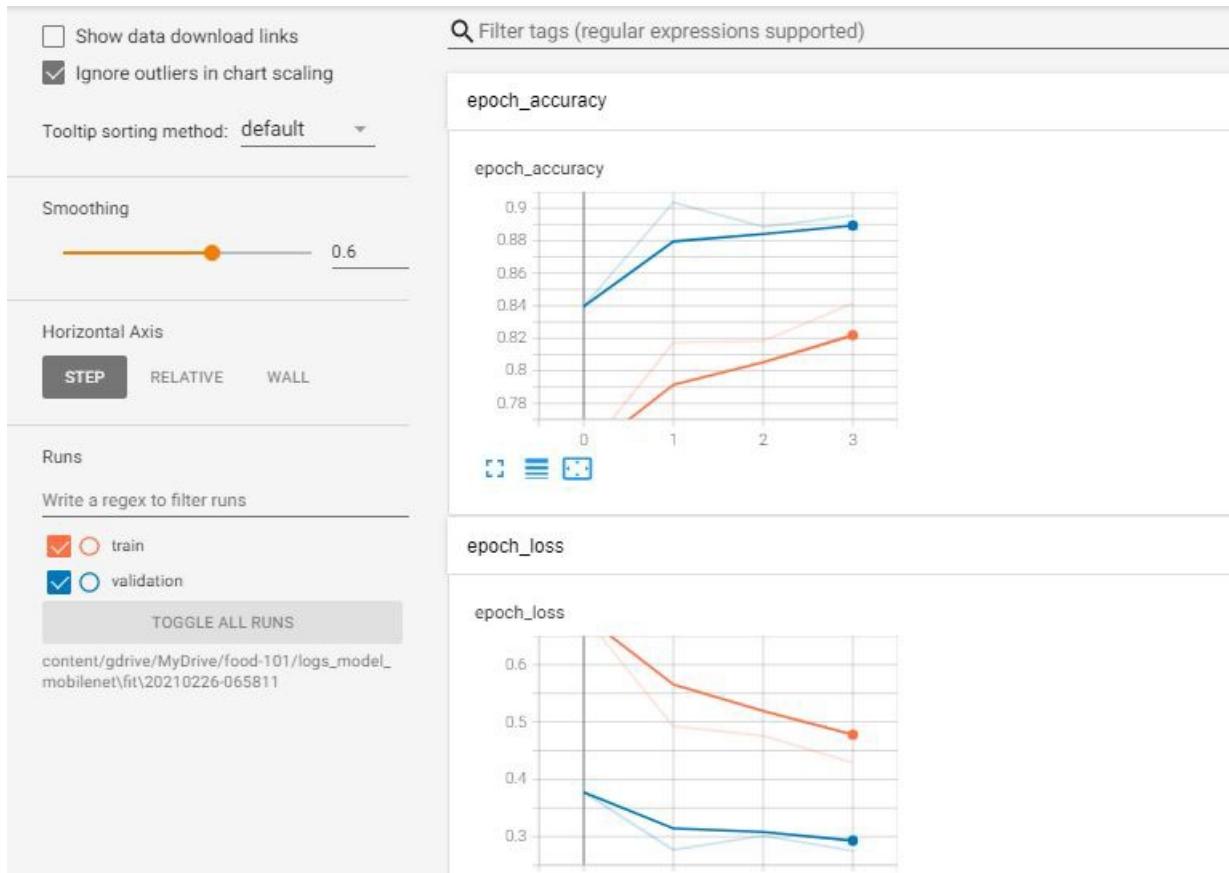
```
%tensorboard --logdir content/gdrive/MyDrive/food-101/logs_model_mobilenet\fit\20210226-065811
```

## Tensorboard images

In [65]:

```
Image('/content/20210226-065811_1.png')
```

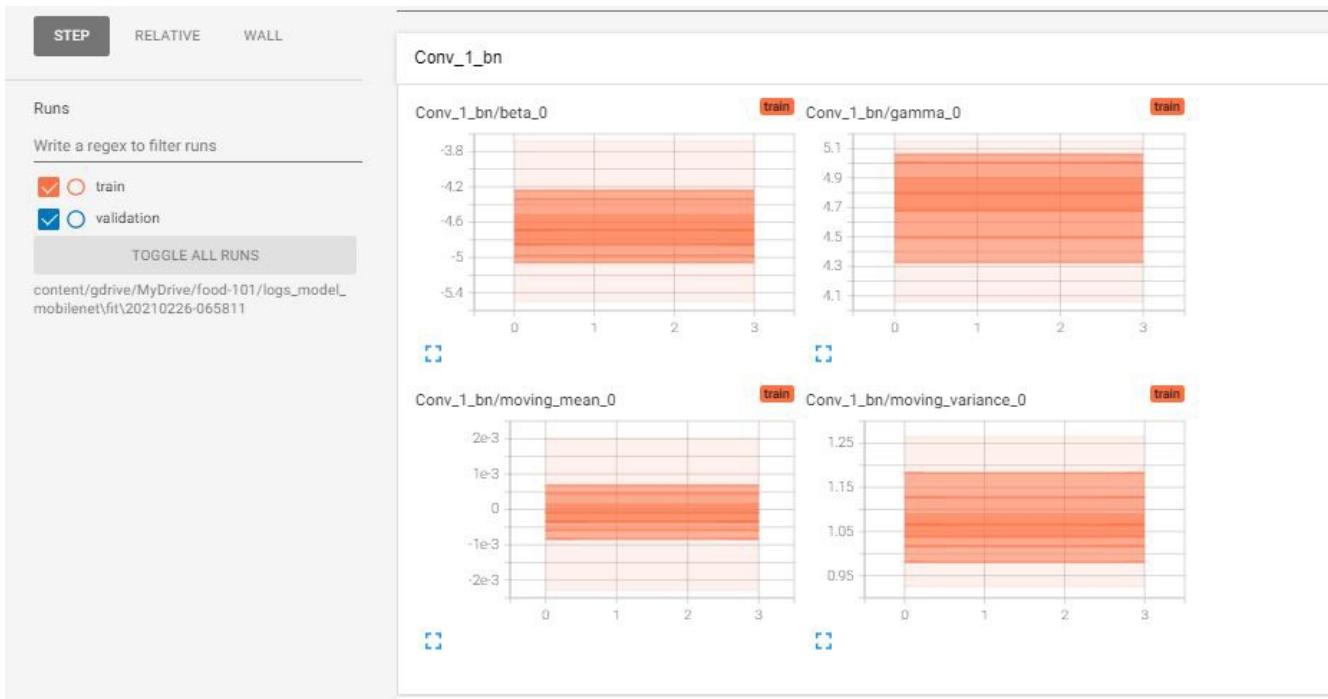
Out[65]:



In [66]:

```
Image('/content/20210226-065811_2.png')
```

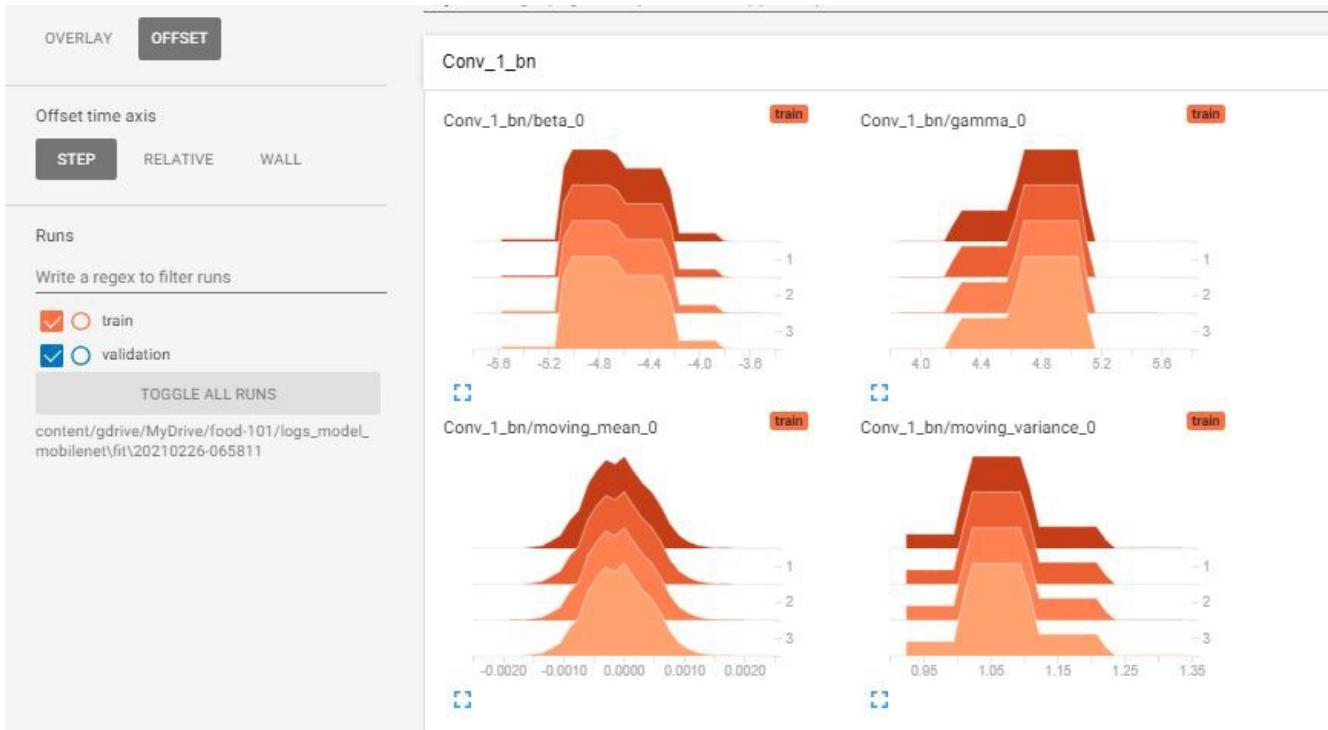
Out[66]:



In [67]:

```
Image('/content/20210226-065811_3.png')
```

Out[67]:



## Summary & Observations:

1. For this model, we can observe that the gap between train & test worms is least for our chosen model weights. Thus, we are not overfitting the data.
  2. By looking at the epoch loss & epoch accuracy plots above, we can observe that the loss & weights are optimal, i.e. least loss & highest accuracy.
  3. I have used Transfer Learning for this model & used the MobileNetV2 model.
  4. Techniques such as regularization & dropouts have been used in order to avoid overfit on the train data.
  5. I have used a batch normalization layer in order to ensure that the distribution of data doesn't change while it is passed from start to end layers.
  6. Activation used is ReLU for Dense layers & softmax activation for the output layer as it is a multiclass classification problem.
  7. I have used adaptive moment estimation in the form of Adam optimizer.
  8. For this model in my case:

Total params: 2,587,715

Trainable params: 329,219

Non-trainable params: 2,258,496

## Train Medium model

In [25]:

```
def visualize_images(dataloader):
    mean = np.array([0.485, 0.456, 0.406])
    std = np.array([0.229, 0.224, 0.225])
    figure, ax = plt.subplots(nrows=4, ncols=4, figsize=(16, 16))
    classes = list(dataloader.dataset.class_to_idx.keys())
    img_no = 0
    rows = 4
    cols = 4
    for images, labels in dataloader:
        for i in range(rows):
            for j in range(cols):
                img = np.array(images[img_no]).transpose(1, 2, 0)
                lbl = labels[img_no]

                ax[i, j].imshow((img*std)+mean)
                ax[i, j].set_title(classes[lbl])
                ax[i, j].set_axis_off()
                img_no += 1
    break
```

In [26]:

```
print("-----Sample Images from the train dataset-----\n")  
visualize images(train loader)
```

Clipping input data to the valid range for imshow with RGB data ([0..1] for floats or [0..255] for integers).  
Clipping input data to the valid range for imshow with RGB data ([0..1] for floats or [0..255] for integers).  
Clipping input data to the valid range for imshow with RGB data ([0..1] for floats or [0..255] for integers).  
Clipping input data to the valid range for imshow with RGB data ([0..1] for floats or [0..255] for integers).  
Clipping input data to the valid range for imshow with RGB data ([0..1] for floats or [0..255] for integers).  
Clipping input data to the valid range for imshow with RGB data ([0..1] for floats or [0..255] for integers).  
Clipping input data to the valid range for imshow with RGB data ([0..1] for floats or [0..255] for integers).



In [27]:

```
print("-----Sample Images from the test dataset-----")
visualize_images(test_loader)
```

-----Sample Images from the test dataset-----

Clipping input data to the valid range for imshow with RGB data ([0..1] for floats or [0..255] for integers).  
Clipping input data to the valid range for imshow with RGB data ([0..1] for floats or [0..255] for integers).



apple\_pie



apple\_pie



apple\_pie



apple\_pie



apple\_pie



## apple\_pie



apple\_pie



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apple\_pie



## apple\_pie



### apple\_pie



apple\_pie



apple\_pie



apple\_pie



apple\_pie



## apple\_pie

In [28]:

```
model_resnet = resnet50(pretrained=True)
```

Downloading: "https://download.pytorch.org/models/resnet50-19c8e357.pth" to /root/.cache/torch/hub/checkpoints/resnet50-19c8e357.pth

In [31]:

```
print("ResNet Model:\n")
model_resnet
```

ResNet Model:

Out[31]:

```
ResNet(
  (conv1): Conv2d(3, 64, kernel_size=(7, 7), stride=(2, 2), padding=(3, 3), bias=False)
  (bn1): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
  (relu): ReLU(inplace=True)
  (maxpool): MaxPool2d(kernel_size=3, stride=2, padding=1, dilation=1, ceil_mode=False)
  (layer1): Sequential(
    (0): Bottleneck(
      (conv1): Conv2d(64, 64, kernel_size=(1, 1), stride=(1, 1), bias=False)
      (bn1): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
      (conv2): Conv2d(64, 64, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
      (bn2): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
      (conv3): Conv2d(64, 256, kernel_size=(1, 1), stride=(1, 1), bias=False)
      (bn3): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
      (relu): ReLU(inplace=True)
      (downsample): Sequential(
        (0): Conv2d(64, 256, kernel_size=(1, 1), stride=(1, 1), bias=False)
        (1): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
      )
    )
    (1): Bottleneck(
      (conv1): Conv2d(256, 64, kernel_size=(1, 1), stride=(1, 1), bias=False)
      (bn1): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
      (conv2): Conv2d(64, 64, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
      (bn2): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
      (conv3): Conv2d(64, 256, kernel_size=(1, 1), stride=(1, 1), bias=False)
      (bn3): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
      (relu): ReLU(inplace=True)
    )
    (2): Bottleneck(
      (conv1): Conv2d(256, 64, kernel_size=(1, 1), stride=(1, 1), bias=False)
      (bn1): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
      (conv2): Conv2d(64, 64, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
      (bn2): BatchNorm2d(64, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
      (conv3): Conv2d(64, 256, kernel_size=(1, 1), stride=(1, 1), bias=False)
      (bn3): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
      (relu): ReLU(inplace=True)
    )
  )
  (layer2): Sequential(
    (0): Bottleneck(
      (conv1): Conv2d(256, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
      (bn1): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
      (conv2): Conv2d(128, 128, kernel_size=(3, 3), stride=(2, 2), padding=(1, 1), bias=False)
      (bn2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
      (conv3): Conv2d(128, 512, kernel_size=(1, 1), stride=(1, 1), bias=False)
      (bn3): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
      (relu): ReLU(inplace=True)
      (downsample): Sequential(
        (0): Conv2d(256, 512, kernel_size=(1, 1), stride=(2, 2), bias=False)
        (1): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
      )
    )
    (1): Bottleneck(
      (conv1): Conv2d(512, 128, kernel_size=(1, 1), stride=(1, 1), bias=False)
      (bn1): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
      (conv2): Conv2d(128, 128, kernel_size=(3, 3), stride=(2, 2), padding=(1, 1), bias=False)
      (bn2): BatchNorm2d(128, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
      (conv3): Conv2d(128, 512, kernel_size=(1, 1), stride=(1, 1), bias=False)
      (bn3): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
      (relu): ReLU(inplace=True)
    )
  )
)
```



```

        (bn1): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
        (conv2): Conv2d(256, 256, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
        (bn2): BatchNorm2d(256, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
        (conv3): Conv2d(256, 1024, kernel_size=(1, 1), stride=(1, 1), bias=False)
        (bn3): BatchNorm2d(1024, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
        (relu): ReLU(inplace=True)
    )
)
(layer4): Sequential(
    (0): Bottleneck(
        (conv1): Conv2d(1024, 512, kernel_size=(1, 1), stride=(1, 1), bias=False)
        (bn1): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
        (conv2): Conv2d(512, 512, kernel_size=(3, 3), stride=(2, 2), padding=(1, 1), bias=False)
        (bn2): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
        (conv3): Conv2d(512, 2048, kernel_size=(1, 1), stride=(1, 1), bias=False)
        (bn3): BatchNorm2d(2048, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
        (relu): ReLU(inplace=True)
        (downsample): Sequential(
            (0): Conv2d(1024, 2048, kernel_size=(1, 1), stride=(2, 2), bias=False)
            (1): BatchNorm2d(2048, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
        )
    )
    (1): Bottleneck(
        (conv1): Conv2d(2048, 512, kernel_size=(1, 1), stride=(1, 1), bias=False)
        (bn1): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
        (conv2): Conv2d(512, 512, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
        (bn2): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
        (conv3): Conv2d(512, 2048, kernel_size=(1, 1), stride=(1, 1), bias=False)
        (bn3): BatchNorm2d(2048, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
        (relu): ReLU(inplace=True)
    )
    (2): Bottleneck(
        (conv1): Conv2d(2048, 512, kernel_size=(1, 1), stride=(1, 1), bias=False)
        (bn1): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
        (conv2): Conv2d(512, 512, kernel_size=(3, 3), stride=(1, 1), padding=(1, 1), bias=False)
        (bn2): BatchNorm2d(512, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
        (conv3): Conv2d(512, 2048, kernel_size=(1, 1), stride=(1, 1), bias=False)
        (bn3): BatchNorm2d(2048, eps=1e-05, momentum=0.1, affine=True, track_running_stats=True)
        (relu): ReLU(inplace=True)
    )
)
(avgpool): AdaptiveAvgPool2d(output_size=(1, 1))
(fc): Linear(in_features=2048, out_features=1000, bias=True)
)

```

In [32]:

```

for i, param in enumerate(model_resnet.parameters()):
    if i < 95:
        param.requires_grad=False

```

In [44]:

```

model_resnet.fc = torch.nn.Sequential(
    torch.nn.Dropout(0.5),
    torch.nn.Linear(2048, 101)
)

```

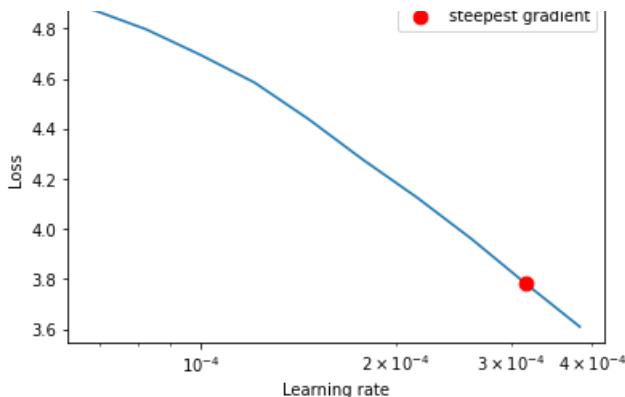
In [45]:

```

criterion = torch.nn.CrossEntropyLoss()
optimizer = torch.optim.Adam(model_resnet.parameters(), lr=0.00001)
lr_finder = LRFinder(model_resnet, optimizer, criterion, device="cuda")
lr_finder.range_test(train_loader, end_lr=0.001, num_iter=25)
lr_finder.plot()
lr_finder.reset()

```

Learning rate search finished. See the graph with {finder\_name}.plot()  
LR suggestion: steepest gradient  
Suggested LR: 3.16E-04



In [46]:

```
%reload_ext tensorboard
%tensorboard --logdir runs
```

Reusing TensorBoard on port 6006 (pid 990), started 0:06:51 ago. (Use '!kill 990' to kill it.)

In [47]:

```
cuda = True
epochs = 10

model_name = '/content/gdrive/MyDrive/food-101/my_model_resnet50.pt'
optimizer = torch.optim.Adam(model_resnet.parameters(), lr=4e-5, weight_decay=0.001)
criterion = torch.nn.CrossEntropyLoss()
scheduler = torch.optim.lr_scheduler.ReduceLROnPlateau(optimizer, 'min', factor=0.1,
                                                       patience=1, verbose=True)

writer = SummaryWriter() # For Tensorboard
early_stop_count = 0
ES_patience = 4
best = 0.0
if cuda:
    model_resnet.cuda()
```

In [48]:

```
# training the model
for epoch in range(epochs):

    # Training
    model_resnet.train()
    correct = 0
    train_loss = 0.0
    tbar = tqdm(train_loader, desc='Training', position=0, leave=True)
    for i, (inp, lbl) in enumerate(tbar):
        optimizer.zero_grad()
        if cuda:
            inp, lbl = inp.cuda(), lbl.cuda()
        out = model_resnet(inp)
        loss = criterion(out, lbl)
        train_loss += loss
        out = out.argmax(dim=1)
        correct += (out == lbl).sum().item()
        loss.backward()
        optimizer.step()
        tbar.set_description(f"Epoch: {epoch+1}, loss: {loss.item():.5f}, acc: {100.0*correct/((i+1)*train_loader.batch_size):.4f}%")
    train_acc = 100.0*correct/len(train_loader.dataset)
    train_loss /= (len(train_loader.dataset)/batch_size)

    # Validation
    model_resnet.eval()
    with torch.no_grad():
        correct = 0
        val_loss = 0.0
```

```

vbar = tqdm(test_loader, desc='Validation', position=0, leave=True)
for i,(inp, lbl) in enumerate(vbar):
    if cuda:
        inp, lbl = inp.cuda(), lbl.cuda()
    out = model_resnet(inp)
    val_loss += criterion(out, lbl)
    out = out.argmax(dim=1)
    correct += (out == lbl).sum().item()
val_acc = 100.0*correct/len(test_loader.dataset)
val_loss /= (len(test_loader.dataset)/batch_size)
print(f'\nEpoch: {epoch+1}/{epochs}')
print(f'Train loss: {train_loss}, Train Accuracy: {train_acc}')
print(f'Validation loss: {val_loss}, Validation Accuracy: {val_acc}\n')

scheduler.step(val_loss)

# Write to tensorboard
writer.add_scalar("Loss/train", train_loss, epoch)
writer.add_scalar("Loss/val", val_loss, epoch)
writer.add_scalar("Accuracy/train", train_acc, epoch)
writer.add_scalar("Accuracy/val", val_acc, epoch)

if val_acc > best:
    best = val_acc
    torch.save(model_resnet, model_name)
    early_stop_count = 0
    print('Validation Accuracy Improved, model saved.\n')
else:
    early_stop_count += 1

if early_stop_count == ES_patience:
    print('Early Stopping Initiated...')
    print(f'Best Validation Accuracy achieved: {best:.2f}% at epoch:{epoch-ES_patience}')
    print(f'Model saved as {model_name}')
    break
writer.flush()

```

Epoch: 1, loss: 1.29310, acc: 69.1406%: 100%|██████████| 36/36 [00:34<00:00, 1.03it/s]  
Validation: 100%|██████████| 12/12 [00:05<00:00, 2.14it/s]

Epoch: 1/10  
Train loss: 2.1920347213745117, Train Accuracy: 70.8  
Validation loss: 0.4951874911785126, Validation Accuracy: 93.066666666666666

Training: 0% | 0/36 [00:00<?, ?it/s]

Validation Accuracy Improved, model saved.

Epoch: 2, loss: 0.31598, acc: 91.1024%: 100%|██████████| 36/36 [00:35<00:00, 1.02it/s]  
Validation: 100%|██████████| 12/12 [00:05<00:00, 2.20it/s]

Epoch: 2/10  
Train loss: 0.3653574585914612, Train Accuracy: 93.28888888888889  
Validation loss: 0.29021602869033813, Validation Accuracy: 93.733333333333333

Training: 0% | 0/36 [00:00<?, ?it/s]

Validation Accuracy Improved, model saved.

Epoch: 3, loss: 0.80983, acc: 93.2292%: 100%|██████████| 36/36 [00:35<00:00, 1.02it/s]  
Validation: 100%|██████████| 12/12 [00:05<00:00, 2.14it/s]

Epoch: 3/10  
Train loss: 0.21648025512695312, Train Accuracy: 95.466666666666667  
Validation loss: 0.2608344554901123, Validation Accuracy: 94.666666666666667

```
Training: 0% | 0/36 [00:00<?, ?it/s]
```

Validation Accuracy Improved, model saved.

```
Epoch: 4, loss: 0.02337, acc: 93.9236%: 100%|██████| 36/36 [00:35<00:00, 1.01it/s]
Validation: 100%|██████| 12/12 [00:05<00:00, 2.17it/s]
Training: 0% | 0/36 [00:00<?, ?it/s]
```

Epoch: 4/10  
Train loss: 0.16161885857582092, Train Accuracy: 96.177777777777778  
Validation loss: 0.22274167835712433, Validation Accuracy: 93.733333333333333

```
Epoch: 5, loss: 0.27645, acc: 95.3559%: 100%|██████| 36/36 [00:35<00:00, 1.02it/s]
Validation: 100%|██████| 12/12 [00:05<00:00, 2.18it/s]
Training: 0% | 0/36 [00:00<?, ?it/s]
```

Epoch: 5/10  
Train loss: 0.11509983986616135, Train Accuracy: 97.644444444444445  
Validation loss: 0.19555804133415222, Validation Accuracy: 94.533333333333333

```
Epoch: 6, loss: 0.31979, acc: 95.6597%: 100%|██████| 36/36 [00:35<00:00, 1.02it/s]
Validation: 100%|██████| 12/12 [00:05<00:00, 2.16it/s]
Training: 0% | 0/36 [00:00<?, ?it/s]
```

Epoch: 6/10  
Train loss: 0.09025876969099045, Train Accuracy: 97.955555555555555  
Validation loss: 0.21319760382175446, Validation Accuracy: 94.666666666666667

```
Epoch: 7, loss: 0.51352, acc: 96.2674%: 100%|██████| 36/36 [00:35<00:00, 1.01it/s]
Validation: 100%|██████| 12/12 [00:05<00:00, 2.14it/s]
```

Epoch: 7/10  
Train loss: 0.07129400223493576, Train Accuracy: 98.577777777777778  
Validation loss: 0.2093384563922882, Validation Accuracy: 94.4

Epoch 7: reducing learning rate of group 0 to 4.0000e-06.  
Early Stopping Initiated...  
Best Validation Accuracy achieved: 94.67% at epoch:2  
Model saved as /content/gdrive/MyDrive/food-101/my\_model\_resnet50.pt

## Tensorboard images

### Accuracy plots for model on Train & Test data

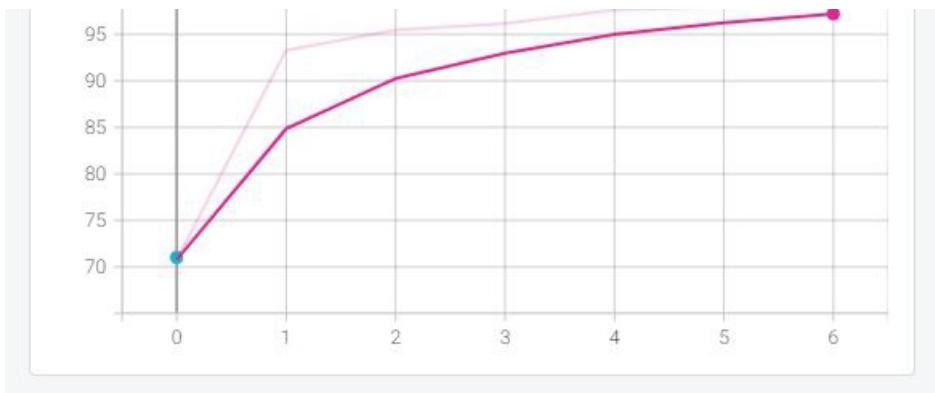
In [68]:

```
Image('/content/pt_1.png')
```

Out[68]:

Accuracy 2 cards

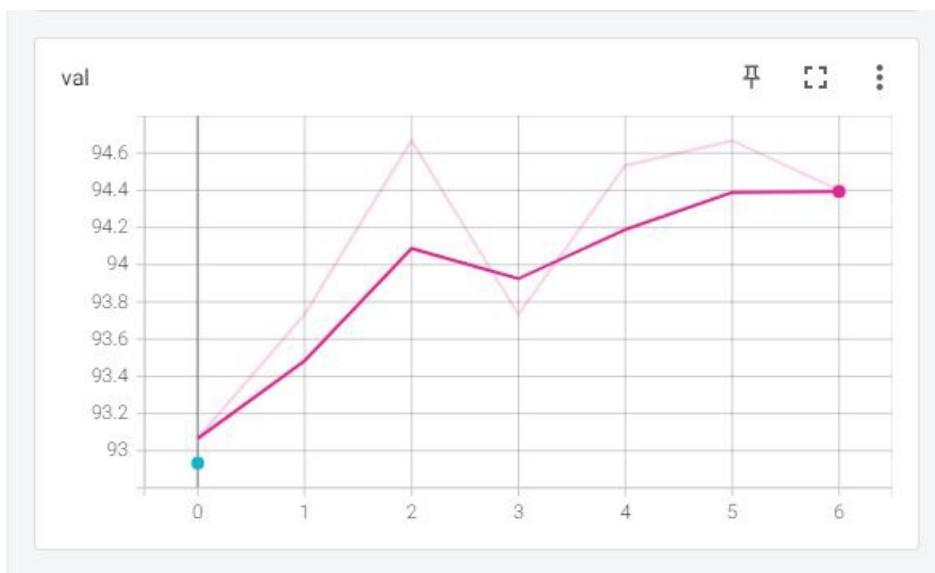




In [69]:

```
Image('/content/pt_2.png')
```

Out[69]:

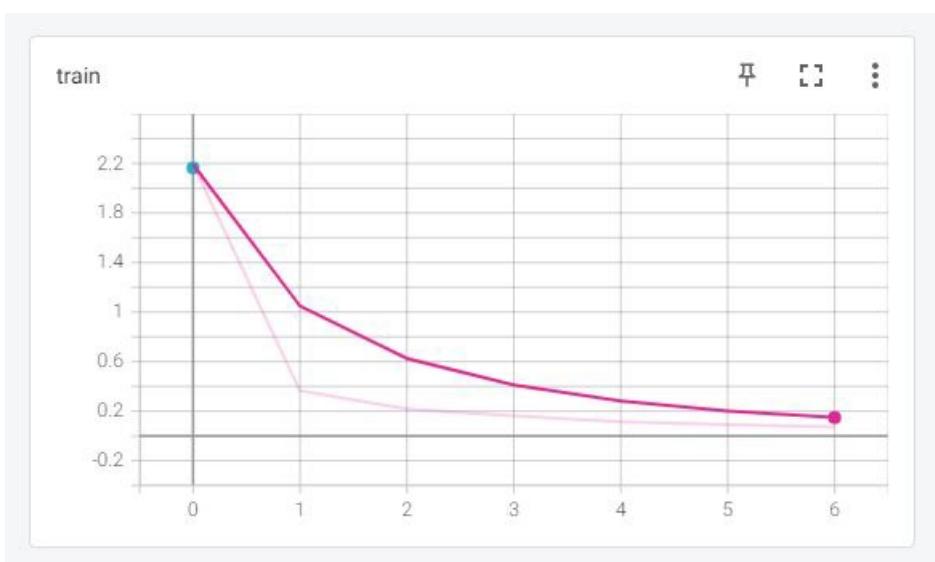


### Loss plots for model on Train & Test data

In [70]:

```
Image('/content/pt_3.png')
```

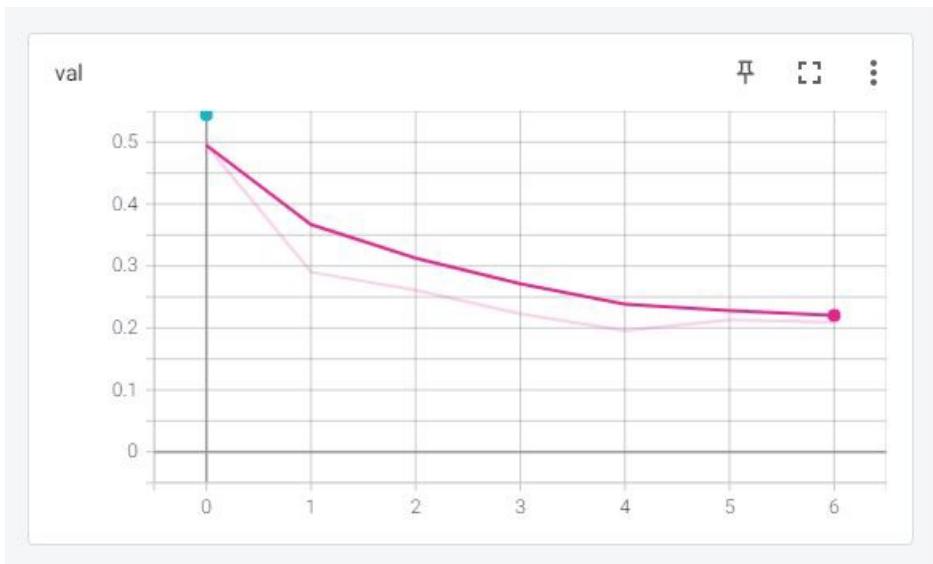
Out[70]:



In [71]:

```
Image('/content/pt_4.png')
```

Out[71]:



## Summary & Observations:

1. For this model, we can observe that the gap between train & test worms is least for our chosen model weights. Thus, we are not overfitting the data.
2. By looking at the epoch loss & epoch accuracy plots above, we can observe that the loss & weights are optimal, i.e. least loss & highest accuracy.
3. I have used Transfer Learning for this model & used the ResNet50 model.
4. Techniques such as regularization & dropouts have been used in order to avoid overfit on the train data.
5. I have used a batch normalization layer in order to ensure that the distribution of data doesn't change while it is passed from start to end layers.
6. Activation used is ReLU for Dense layers & softmax activation for the output layer as it is a multiclass classification problem.
7. I have used adaptive moment estimation in the form of Adam optimizer.

## Train heavy model

In [67]:

```
inception = InceptionV3(weights='imagenet', include_top=False)
x = inception.output
x = GlobalAveragePooling2D()(x)
x = Dense(128, activation='relu')(x)
x = Dropout(0.2)(x)
x = Flatten()
predictions = Dense(n_classes, kernel_regularizer=regularizers.l2(0.005), activation='softmax')(x)
```

Downloading data from https://storage.googleapis.com/tensorflow/keras-applications/inception\_v3/inception\_v3\_weights\_tf\_dim\_ordering\_tf\_kernels\_notop.h5  
87916544/87910968 [=====] - 1s/step

In [68]:

```
model_inc = Model(inputs=inception.input, outputs=predictions)
model_inc.compile(optimizer=SGD(lr=.0001, momentum=.9), loss='categorical_crossentropy',
                  metrics=['accuracy'])
checkpoint = ModelCheckpoint(filepath='best_model_inception.hdf5', verbose=1,
                           monitor='val_accuracy', save_best_only=True)
csv_logger = CSVLogger('history_inception.log')
earlystop = EarlyStopping(monitor='val_accuracy', mode='max', patience=2, verbose=1)
log_dir="content/gdrive/MyDrive/food-101/logs_model_inception\\fit\\"
log_dir=log_dir+datetime.datetime.now().strftime("%Y%m%d-%H%M%S")
```

```

tensorboard_callback = tf.keras.callbacks.TensorBoard(log_dir=log_dir, histogram_freq=1,
                                                     write_graph=True, write_grads=True)

def schedule(epoch):
    if epoch < 5:
        return .0005
    elif epoch < 18:
        return .00001
    else:
        return .000002
lr_scheduler = LearningRateScheduler(schedule)

```

WARNING:tensorflow: `write\_grads` will be ignored in TensorFlow 2.0 for the `TensorBoard` Callback.

In [69]:

```
model_inc.summary()
```

Model: "model"

Layer (type)	Output Shape	Param #	Connected to
input_1 (InputLayer)	[ (None, None, None, 0		
conv2d (Conv2D)	(None, None, None, 3 864		input_1[0] [0]
batch_normalization (BatchNorma	(None, None, None, 3 96		conv2d[0] [0]
activation (Activation)	(None, None, None, 3 0		batch_normalization[0] [0]
conv2d_1 (Conv2D)	(None, None, None, 3 9216		activation[0] [0]
batch_normalization_1 (BatchNor	(None, None, None, 3 96		conv2d_1[0] [0]
activation_1 (Activation)	(None, None, None, 3 0		batch_normalization_1[0] [0]
conv2d_2 (Conv2D)	(None, None, None, 6 18432		activation_1[0] [0]
batch_normalization_2 (BatchNor	(None, None, None, 6 192		conv2d_2[0] [0]
activation_2 (Activation)	(None, None, None, 6 0		batch_normalization_2[0] [0]
max_pooling2d (MaxPooling2D)	(None, None, None, 6 0		activation_2[0] [0]
conv2d_3 (Conv2D)	(None, None, None, 8 5120		max_pooling2d[0] [0]
batch_normalization_3 (BatchNor	(None, None, None, 8 240		conv2d_3[0] [0]
activation_3 (Activation)	(None, None, None, 8 0		batch_normalization_3[0] [0]
conv2d_4 (Conv2D)	(None, None, None, 1 138240		activation_3[0] [0]
batch_normalization_4 (BatchNor	(None, None, None, 1 576		conv2d_4[0] [0]
activation_4 (Activation)	(None, None, None, 1 0		batch_normalization_4[0] [0]
max_pooling2d_1 (MaxPooling2D)	(None, None, None, 1 0		activation_4[0] [0]
conv2d_8 (Conv2D)	(None, None, None, 6 12288		max_pooling2d_1[0] [0]
batch_normalization_8 (BatchNor	(None, None, None, 6 192		conv2d_8[0] [0]
activation_8 (Activation)	(None, None, None, 6 0		batch_normalization_8[0] [0]
conv2d_6 (Conv2D)	(None, None, None, 4 9216		max_pooling2d_1[0] [0]
conv2d_9 (Conv2D)	(None, None, None, 9 55296		activation_8[0] [0]
batch_normalization_6 (BatchNor	(None, None, None, 4 144		conv2d_6[0] [0]
batch_normalization_9 (BatchNor	(None, None, None, 9 288		conv2d_9[0] [0]
activation_6 (Activation)	(None, None, None, 4 0		batch_normalization_6[0] [0]

activation_9 (Activation)	(None, None, None, 9 0	batch_normalization_9[0] [0]
average_pooling2d (AveragePooli	(None, None, None, 1 0	max_pooling2d_1[0] [0]
conv2d_5 (Conv2D)	(None, None, None, 6 12288	max_pooling2d_1[0] [0]
conv2d_7 (Conv2D)	(None, None, None, 6 76800	activation_6[0] [0]
conv2d_10 (Conv2D)	(None, None, None, 9 82944	activation_9[0] [0]
conv2d_11 (Conv2D)	(None, None, None, 3 6144	average_pooling2d[0] [0]
batch_normalization_5 (BatchNor	(None, None, None, 6 192	conv2d_5[0] [0]
batch_normalization_7 (BatchNor	(None, None, None, 6 192	conv2d_7[0] [0]
batch_normalization_10 (BatchNo	(None, None, None, 9 288	conv2d_10[0] [0]
batch_normalization_11 (BatchNo	(None, None, None, 3 96	conv2d_11[0] [0]
activation_5 (Activation)	(None, None, None, 6 0	batch_normalization_5[0] [0]
activation_7 (Activation)	(None, None, None, 6 0	batch_normalization_7[0] [0]
activation_10 (Activation)	(None, None, None, 9 0	batch_normalization_10[0] [0]
activation_11 (Activation)	(None, None, None, 3 0	batch_normalization_11[0] [0]
mixed0 (Concatenate)	(None, None, None, 2 0	activation_5[0] [0] activation_7[0] [0] activation_10[0] [0] activation_11[0] [0]
conv2d_15 (Conv2D)	(None, None, None, 6 16384	mixed0[0] [0]
batch_normalization_15 (BatchNo	(None, None, None, 6 192	conv2d_15[0] [0]
activation_15 (Activation)	(None, None, None, 6 0	batch_normalization_15[0] [0]
conv2d_13 (Conv2D)	(None, None, None, 4 12288	mixed0[0] [0]
conv2d_16 (Conv2D)	(None, None, None, 9 55296	activation_15[0] [0]
batch_normalization_13 (BatchNo	(None, None, None, 4 144	conv2d_13[0] [0]
batch_normalization_16 (BatchNo	(None, None, None, 9 288	conv2d_16[0] [0]
activation_13 (Activation)	(None, None, None, 4 0	batch_normalization_13[0] [0]
activation_16 (Activation)	(None, None, None, 9 0	batch_normalization_16[0] [0]
average_pooling2d_1 (AveragePoo	(None, None, None, 2 0	mixed0[0] [0]
conv2d_12 (Conv2D)	(None, None, None, 6 16384	mixed0[0] [0]
conv2d_14 (Conv2D)	(None, None, None, 6 76800	activation_13[0] [0]
conv2d_17 (Conv2D)	(None, None, None, 9 82944	activation_16[0] [0]
conv2d_18 (Conv2D)	(None, None, None, 6 16384	average_pooling2d_1[0] [0]
batch_normalization_12 (BatchNo	(None, None, None, 6 192	conv2d_12[0] [0]
batch_normalization_14 (BatchNo	(None, None, None, 6 192	conv2d_14[0] [0]
batch_normalization_17 (BatchNo	(None, None, None, 9 288	conv2d_17[0] [0]
batch_normalization_18 (BatchNo	(None, None, None, 6 192	conv2d_18[0] [0]
activation_12 (Activation)	(None, None, None, 6 0	batch_normalization_12[0] [0]
activation_14 (Activation)	(None, None, None, 6 0	batch_normalization_14[0] [0]
activation_17 (Activation)	(None, None, None, 9 0	batch_normalization_17[0] [0]
activation_18 (Activation)	(None, None, None, 6 0	batch_normalization_18[0] [0]

mixed1 (Concatenate)	(None, None, None, 2 0	activation_12[0] [0] activation_14[0] [0] activation_17[0] [0] activation_18[0] [0]
conv2d_22 (Conv2D)	(None, None, None, 6 18432	mixed1[0] [0]
batch_normalization_22 (BatchNo	(None, None, None, 6 192	conv2d_22[0] [0]
activation_22 (Activation)	(None, None, None, 6 0	batch_normalization_22[0] [0]
conv2d_20 (Conv2D)	(None, None, None, 4 13824	mixed1[0] [0]
conv2d_23 (Conv2D)	(None, None, None, 9 55296	activation_22[0] [0]
batch_normalization_20 (BatchNo	(None, None, None, 4 144	conv2d_20[0] [0]
batch_normalization_23 (BatchNo	(None, None, None, 9 288	conv2d_23[0] [0]
activation_20 (Activation)	(None, None, None, 4 0	batch_normalization_20[0] [0]
activation_23 (Activation)	(None, None, None, 9 0	batch_normalization_23[0] [0]
average_pooling2d_2 (AveragePoo	(None, None, None, 2 0	mixed1[0] [0]
conv2d_19 (Conv2D)	(None, None, None, 6 18432	mixed1[0] [0]
conv2d_21 (Conv2D)	(None, None, None, 6 76800	activation_20[0] [0]
conv2d_24 (Conv2D)	(None, None, None, 9 82944	activation_23[0] [0]
conv2d_25 (Conv2D)	(None, None, None, 6 18432	average_pooling2d_2[0] [0]
batch_normalization_19 (BatchNo	(None, None, None, 6 192	conv2d_19[0] [0]
batch_normalization_21 (BatchNo	(None, None, None, 6 192	conv2d_21[0] [0]
batch_normalization_24 (BatchNo	(None, None, None, 9 288	conv2d_24[0] [0]
batch_normalization_25 (BatchNo	(None, None, None, 6 192	conv2d_25[0] [0]
activation_19 (Activation)	(None, None, None, 6 0	batch_normalization_19[0] [0]
activation_21 (Activation)	(None, None, None, 6 0	batch_normalization_21[0] [0]
activation_24 (Activation)	(None, None, None, 9 0	batch_normalization_24[0] [0]
activation_25 (Activation)	(None, None, None, 6 0	batch_normalization_25[0] [0]
mixed2 (Concatenate)	(None, None, None, 2 0	activation_19[0] [0] activation_21[0] [0] activation_24[0] [0] activation_25[0] [0]
conv2d_27 (Conv2D)	(None, None, None, 6 18432	mixed2[0] [0]
batch_normalization_27 (BatchNo	(None, None, None, 6 192	conv2d_27[0] [0]
activation_27 (Activation)	(None, None, None, 6 0	batch_normalization_27[0] [0]
conv2d_28 (Conv2D)	(None, None, None, 9 55296	activation_27[0] [0]
batch_normalization_28 (BatchNo	(None, None, None, 9 288	conv2d_28[0] [0]
activation_28 (Activation)	(None, None, None, 9 0	batch_normalization_28[0] [0]
conv2d_26 (Conv2D)	(None, None, None, 3 995328	mixed2[0] [0]
conv2d_29 (Conv2D)	(None, None, None, 9 82944	activation_28[0] [0]
batch_normalization_26 (BatchNo	(None, None, None, 3 1152	conv2d_26[0] [0]
batch_normalization_29 (BatchNo	(None, None, None, 9 288	conv2d_29[0] [0]
activation_26 (Activation)	(None, None, None, 3 0	batch_normalization_26[0] [0]
activation_29 (Activation)	(None, None, None, 9 0	batch_normalization_29[0] [0]

activation_25 (Activation)	(None, None, None, 1)	batch_normalization_25 [0]
max_pooling2d_2 (MaxPooling2D)	(None, None, None, 2)	mixed2[0][0]
mixed3 (Concatenate)	(None, None, None, 7)	activation_26[0][0] activation_29[0][0] max_pooling2d_2[0][0]
conv2d_34 (Conv2D)	(None, None, None, 1)	98304 mixed3[0][0]
batch_normalization_34 (BatchNo)	(None, None, None, 1)	384 conv2d_34[0][0]
activation_34 (Activation)	(None, None, None, 1)	0 batch_normalization_34[0][0]
conv2d_35 (Conv2D)	(None, None, None, 1)	114688 activation_34[0][0]
batch_normalization_35 (BatchNo)	(None, None, None, 1)	384 conv2d_35[0][0]
activation_35 (Activation)	(None, None, None, 1)	0 batch_normalization_35[0][0]
conv2d_31 (Conv2D)	(None, None, None, 1)	98304 mixed3[0][0]
conv2d_36 (Conv2D)	(None, None, None, 1)	114688 activation_35[0][0]
batch_normalization_31 (BatchNo)	(None, None, None, 1)	384 conv2d_31[0][0]
batch_normalization_36 (BatchNo)	(None, None, None, 1)	384 conv2d_36[0][0]
activation_31 (Activation)	(None, None, None, 1)	0 batch_normalization_31[0][0]
activation_36 (Activation)	(None, None, None, 1)	0 batch_normalization_36[0][0]
conv2d_32 (Conv2D)	(None, None, None, 1)	114688 activation_31[0][0]
conv2d_37 (Conv2D)	(None, None, None, 1)	114688 activation_36[0][0]
batch_normalization_32 (BatchNo)	(None, None, None, 1)	384 conv2d_32[0][0]
batch_normalization_37 (BatchNo)	(None, None, None, 1)	384 conv2d_37[0][0]
activation_32 (Activation)	(None, None, None, 1)	0 batch_normalization_32[0][0]
activation_37 (Activation)	(None, None, None, 1)	0 batch_normalization_37[0][0]
average_pooling2d_3 (AveragePoo)	(None, None, None, 7)	0 mixed3[0][0]
conv2d_30 (Conv2D)	(None, None, None, 1)	147456 mixed3[0][0]
conv2d_33 (Conv2D)	(None, None, None, 1)	172032 activation_32[0][0]
conv2d_38 (Conv2D)	(None, None, None, 1)	172032 activation_37[0][0]
conv2d_39 (Conv2D)	(None, None, None, 1)	147456 average_pooling2d_3[0][0]
batch_normalization_30 (BatchNo)	(None, None, None, 1)	576 conv2d_30[0][0]
batch_normalization_33 (BatchNo)	(None, None, None, 1)	576 conv2d_33[0][0]
batch_normalization_38 (BatchNo)	(None, None, None, 1)	576 conv2d_38[0][0]
batch_normalization_39 (BatchNo)	(None, None, None, 1)	576 conv2d_39[0][0]
activation_30 (Activation)	(None, None, None, 1)	0 batch_normalization_30[0][0]
activation_33 (Activation)	(None, None, None, 1)	0 batch_normalization_33[0][0]
activation_38 (Activation)	(None, None, None, 1)	0 batch_normalization_38[0][0]
activation_39 (Activation)	(None, None, None, 1)	0 batch_normalization_39[0][0]
mixed4 (Concatenate)	(None, None, None, 7)	0 activation_30[0][0] activation_33[0][0] activation_38[0][0] activation_39[0][0]
conv2d_44 (Conv2D)	(None, None, None, 1)	122880 mixed4[0][0]
batch_normalization_44 (BatchNo)	(None, None, None, 1)	480 conv2d_44[0][0]

batch_normalization_44 (BatchNo	(None, None, None, 1 400	conv2d_44 [0] [0]
activation_44 (Activation)	(None, None, None, 1 0	batch_normalization_44[0] [0]
conv2d_45 (Conv2D)	(None, None, None, 1 179200	activation_44[0] [0]
batch_normalization_45 (BatchNo	(None, None, None, 1 480	conv2d_45[0] [0]
activation_45 (Activation)	(None, None, None, 1 0	batch_normalization_45[0] [0]
conv2d_41 (Conv2D)	(None, None, None, 1 122880	mixed4[0] [0]
conv2d_46 (Conv2D)	(None, None, None, 1 179200	activation_45[0] [0]
batch_normalization_41 (BatchNo	(None, None, None, 1 480	conv2d_41[0] [0]
batch_normalization_46 (BatchNo	(None, None, None, 1 480	conv2d_46[0] [0]
activation_41 (Activation)	(None, None, None, 1 0	batch_normalization_41[0] [0]
activation_46 (Activation)	(None, None, None, 1 0	batch_normalization_46[0] [0]
conv2d_42 (Conv2D)	(None, None, None, 1 179200	activation_41[0] [0]
conv2d_47 (Conv2D)	(None, None, None, 1 179200	activation_46[0] [0]
batch_normalization_42 (BatchNo	(None, None, None, 1 480	conv2d_42[0] [0]
batch_normalization_47 (BatchNo	(None, None, None, 1 480	conv2d_47[0] [0]
activation_42 (Activation)	(None, None, None, 1 0	batch_normalization_42[0] [0]
activation_47 (Activation)	(None, None, None, 1 0	batch_normalization_47[0] [0]
average_pooling2d_4 (AveragePoo	(None, None, None, 7 0	mixed4[0] [0]
conv2d_40 (Conv2D)	(None, None, None, 1 147456	mixed4[0] [0]
conv2d_43 (Conv2D)	(None, None, None, 1 215040	activation_42[0] [0]
conv2d_48 (Conv2D)	(None, None, None, 1 215040	activation_47[0] [0]
conv2d_49 (Conv2D)	(None, None, None, 1 147456	average_pooling2d_4[0] [0]
batch_normalization_40 (BatchNo	(None, None, None, 1 576	conv2d_40[0] [0]
batch_normalization_43 (BatchNo	(None, None, None, 1 576	conv2d_43[0] [0]
batch_normalization_48 (BatchNo	(None, None, None, 1 576	conv2d_48[0] [0]
batch_normalization_49 (BatchNo	(None, None, None, 1 576	conv2d_49[0] [0]
activation_40 (Activation)	(None, None, None, 1 0	batch_normalization_40[0] [0]
activation_43 (Activation)	(None, None, None, 1 0	batch_normalization_43[0] [0]
activation_48 (Activation)	(None, None, None, 1 0	batch_normalization_48[0] [0]
activation_49 (Activation)	(None, None, None, 1 0	batch_normalization_49[0] [0]
mixed5 (Concatenate)	(None, None, None, 7 0	activation_40[0] [0] activation_43[0] [0] activation_48[0] [0] activation_49[0] [0]
conv2d_54 (Conv2D)	(None, None, None, 1 122880	mixed5[0] [0]
batch_normalization_54 (BatchNo	(None, None, None, 1 480	conv2d_54[0] [0]
activation_54 (Activation)	(None, None, None, 1 0	batch_normalization_54[0] [0]
conv2d_55 (Conv2D)	(None, None, None, 1 179200	activation_54[0] [0]
batch_normalization_55 (BatchNo	(None, None, None, 1 480	conv2d_55[0] [0]
activation_55 (Activation)	(None, None, None, 1 0	batch_normalization_55[0] [0]
conv2d_51 (Conv2D)	(None, None, None, 1 122880	mixed5[0] [0]

conv2d_51 (Conv2D)	(None, None, None, 1 122000	mixed5[0][0]
batch_normalization_51 (BatchNo	(None, None, None, 1 480	conv2d_51[0][0]
batch_normalization_56 (BatchNo	(None, None, None, 1 480	conv2d_56[0][0]
activation_51 (Activation)	(None, None, None, 1 0	batch_normalization_51[0][0]
activation_56 (Activation)	(None, None, None, 1 0	batch_normalization_56[0][0]
conv2d_52 (Conv2D)	(None, None, None, 1 179200	activation_51[0][0]
conv2d_57 (Conv2D)	(None, None, None, 1 179200	activation_56[0][0]
batch_normalization_52 (BatchNo	(None, None, None, 1 480	conv2d_52[0][0]
batch_normalization_57 (BatchNo	(None, None, None, 1 480	conv2d_57[0][0]
activation_52 (Activation)	(None, None, None, 1 0	batch_normalization_52[0][0]
activation_57 (Activation)	(None, None, None, 1 0	batch_normalization_57[0][0]
average_pooling2d_5 (AveragePoo	(None, None, None, 7 0	mixed5[0][0]
conv2d_50 (Conv2D)	(None, None, None, 1 147456	mixed5[0][0]
conv2d_53 (Conv2D)	(None, None, None, 1 215040	activation_52[0][0]
conv2d_58 (Conv2D)	(None, None, None, 1 215040	activation_57[0][0]
conv2d_59 (Conv2D)	(None, None, None, 1 147456	average_pooling2d_5[0][0]
batch_normalization_50 (BatchNo	(None, None, None, 1 576	conv2d_50[0][0]
batch_normalization_53 (BatchNo	(None, None, None, 1 576	conv2d_53[0][0]
batch_normalization_58 (BatchNo	(None, None, None, 1 576	conv2d_58[0][0]
batch_normalization_59 (BatchNo	(None, None, None, 1 576	conv2d_59[0][0]
activation_50 (Activation)	(None, None, None, 1 0	batch_normalization_50[0][0]
activation_53 (Activation)	(None, None, None, 1 0	batch_normalization_53[0][0]
activation_58 (Activation)	(None, None, None, 1 0	batch_normalization_58[0][0]
activation_59 (Activation)	(None, None, None, 1 0	batch_normalization_59[0][0]
mixed6 (Concatenate)	(None, None, None, 7 0	activation_50[0][0] activation_53[0][0] activation_58[0][0] activation_59[0][0]
conv2d_64 (Conv2D)	(None, None, None, 1 147456	mixed6[0][0]
batch_normalization_64 (BatchNo	(None, None, None, 1 576	conv2d_64[0][0]
activation_64 (Activation)	(None, None, None, 1 0	batch_normalization_64[0][0]
conv2d_65 (Conv2D)	(None, None, None, 1 258048	activation_64[0][0]
batch_normalization_65 (BatchNo	(None, None, None, 1 576	conv2d_65[0][0]
activation_65 (Activation)	(None, None, None, 1 0	batch_normalization_65[0][0]
conv2d_61 (Conv2D)	(None, None, None, 1 147456	mixed6[0][0]
conv2d_66 (Conv2D)	(None, None, None, 1 258048	activation_65[0][0]
batch_normalization_61 (BatchNo	(None, None, None, 1 576	conv2d_61[0][0]
batch_normalization_66 (BatchNo	(None, None, None, 1 576	conv2d_66[0][0]
activation_61 (Activation)	(None, None, None, 1 0	batch_normalization_61[0][0]

activation_60 (Activation)	(None, None, None, 1 0	batch_normalization_60[0][0]
conv2d_62 (Conv2D)	(None, None, None, 1 258048	activation_61[0][0]
conv2d_67 (Conv2D)	(None, None, None, 1 258048	activation_66[0][0]
batch_normalization_62 (BatchNo	(None, None, None, 1 576	conv2d_62[0][0]
batch_normalization_67 (BatchNo	(None, None, None, 1 576	conv2d_67[0][0]
activation_62 (Activation)	(None, None, None, 1 0	batch_normalization_62[0][0]
activation_67 (Activation)	(None, None, None, 1 0	batch_normalization_67[0][0]
average_pooling2d_6 (AveragePoo	(None, None, None, 7 0	mixed6[0][0]
conv2d_60 (Conv2D)	(None, None, None, 1 147456	mixed6[0][0]
conv2d_63 (Conv2D)	(None, None, None, 1 258048	activation_62[0][0]
conv2d_68 (Conv2D)	(None, None, None, 1 258048	activation_67[0][0]
conv2d_69 (Conv2D)	(None, None, None, 1 147456	average_pooling2d_6[0][0]
batch_normalization_60 (BatchNo	(None, None, None, 1 576	conv2d_60[0][0]
batch_normalization_63 (BatchNo	(None, None, None, 1 576	conv2d_63[0][0]
batch_normalization_68 (BatchNo	(None, None, None, 1 576	conv2d_68[0][0]
batch_normalization_69 (BatchNo	(None, None, None, 1 576	conv2d_69[0][0]
activation_60 (Activation)	(None, None, None, 1 0	batch_normalization_60[0][0]
activation_63 (Activation)	(None, None, None, 1 0	batch_normalization_63[0][0]
activation_68 (Activation)	(None, None, None, 1 0	batch_normalization_68[0][0]
activation_69 (Activation)	(None, None, None, 1 0	batch_normalization_69[0][0]
mixed7 (Concatenate)	(None, None, None, 7 0	activation_60[0][0] activation_63[0][0] activation_68[0][0] activation_69[0][0]
conv2d_72 (Conv2D)	(None, None, None, 1 147456	mixed7[0][0]
batch_normalization_72 (BatchNo	(None, None, None, 1 576	conv2d_72[0][0]
activation_72 (Activation)	(None, None, None, 1 0	batch_normalization_72[0][0]
conv2d_73 (Conv2D)	(None, None, None, 1 258048	activation_72[0][0]
batch_normalization_73 (BatchNo	(None, None, None, 1 576	conv2d_73[0][0]
activation_73 (Activation)	(None, None, None, 1 0	batch_normalization_73[0][0]
conv2d_70 (Conv2D)	(None, None, None, 1 147456	mixed7[0][0]
conv2d_74 (Conv2D)	(None, None, None, 1 258048	activation_73[0][0]
batch_normalization_70 (BatchNo	(None, None, None, 1 576	conv2d_70[0][0]
batch_normalization_74 (BatchNo	(None, None, None, 1 576	conv2d_74[0][0]
activation_70 (Activation)	(None, None, None, 1 0	batch_normalization_70[0][0]
activation_74 (Activation)	(None, None, None, 1 0	batch_normalization_74[0][0]
conv2d_71 (Conv2D)	(None, None, None, 3 552960	activation_70[0][0]
conv2d_75 (Conv2D)	(None, None, None, 1 331776	activation_74[0][0]
batch_normalization_71 (BatchNo	(None, None, None, 3 960	conv2d_71[0][0]
batch_normalization_75 (BatchNo	(None, None, None, 1 576	conv2d_75[0][0]

activation_1 (Activation)	(None, None, None, 3 0	batch_normalization_1[0][0]
activation_75 (Activation)	(None, None, None, 1 0	batch_normalization_75[0][0]
max_pooling2d_3 (MaxPooling2D)	(None, None, None, 7 0	mixed7[0][0]
mixed8 (Concatenate)	(None, None, None, 1 0	activation_71[0][0] activation_75[0][0] max_pooling2d_3[0][0]
conv2d_80 (Conv2D)	(None, None, None, 4 573440	mixed8[0][0]
batch_normalization_80 (BatchNo	(None, None, None, 4 1344	conv2d_80[0][0]
activation_80 (Activation)	(None, None, None, 4 0	batch_normalization_80[0][0]
conv2d_77 (Conv2D)	(None, None, None, 3 491520	mixed8[0][0]
conv2d_81 (Conv2D)	(None, None, None, 3 1548288	activation_80[0][0]
batch_normalization_77 (BatchNo	(None, None, None, 3 1152	conv2d_77[0][0]
batch_normalization_81 (BatchNo	(None, None, None, 3 1152	conv2d_81[0][0]
activation_77 (Activation)	(None, None, None, 3 0	batch_normalization_77[0][0]
activation_81 (Activation)	(None, None, None, 3 0	batch_normalization_81[0][0]
conv2d_78 (Conv2D)	(None, None, None, 3 442368	activation_77[0][0]
conv2d_79 (Conv2D)	(None, None, None, 3 442368	activation_77[0][0]
conv2d_82 (Conv2D)	(None, None, None, 3 442368	activation_81[0][0]
conv2d_83 (Conv2D)	(None, None, None, 3 442368	activation_81[0][0]
average_pooling2d_7 (AveragePoo	(None, None, None, 1 0	mixed8[0][0]
conv2d_76 (Conv2D)	(None, None, None, 3 409600	mixed8[0][0]
batch_normalization_78 (BatchNo	(None, None, None, 3 1152	conv2d_78[0][0]
batch_normalization_79 (BatchNo	(None, None, None, 3 1152	conv2d_79[0][0]
batch_normalization_82 (BatchNo	(None, None, None, 3 1152	conv2d_82[0][0]
batch_normalization_83 (BatchNo	(None, None, None, 3 1152	conv2d_83[0][0]
conv2d_84 (Conv2D)	(None, None, None, 1 245760	average_pooling2d_7[0][0]
batch_normalization_76 (BatchNo	(None, None, None, 3 960	conv2d_76[0][0]
activation_78 (Activation)	(None, None, None, 3 0	batch_normalization_78[0][0]
activation_79 (Activation)	(None, None, None, 3 0	batch_normalization_79[0][0]
activation_82 (Activation)	(None, None, None, 3 0	batch_normalization_82[0][0]
activation_83 (Activation)	(None, None, None, 3 0	batch_normalization_83[0][0]
batch_normalization_84 (BatchNo	(None, None, None, 1 576	conv2d_84[0][0]
activation_76 (Activation)	(None, None, None, 3 0	batch_normalization_76[0][0]
mixed9_0 (Concatenate)	(None, None, None, 7 0	activation_78[0][0] activation_79[0][0]
concatenate (Concatenate)	(None, None, None, 7 0	activation_82[0][0] activation_83[0][0]
activation_84 (Activation)	(None, None, None, 1 0	batch_normalization_84[0][0]
mixed9 (Concatenate)	(None, None, None, 2 0	activation_76[0][0] mixed9_0[0][0] concatenate[0][0] activation_84[0][0]

conv2d_89 (Conv2D)	(None, None, None, 4	917504	mixed9[0][0]
batch_normalization_89 (BatchNo	(None, None, None, 4	1344	conv2d_89[0][0]
activation_89 (Activation)	(None, None, None, 4	0	batch_normalization_89[0][0]
conv2d_86 (Conv2D)	(None, None, None, 3	786432	mixed9[0][0]
conv2d_90 (Conv2D)	(None, None, None, 3	1548288	activation_89[0][0]
batch_normalization_86 (BatchNo	(None, None, None, 3	1152	conv2d_86[0][0]
batch_normalization_90 (BatchNo	(None, None, None, 3	1152	conv2d_90[0][0]
activation_86 (Activation)	(None, None, None, 3	0	batch_normalization_86[0][0]
activation_90 (Activation)	(None, None, None, 3	0	batch_normalization_90[0][0]
conv2d_87 (Conv2D)	(None, None, None, 3	442368	activation_86[0][0]
conv2d_88 (Conv2D)	(None, None, None, 3	442368	activation_86[0][0]
conv2d_91 (Conv2D)	(None, None, None, 3	442368	activation_90[0][0]
conv2d_92 (Conv2D)	(None, None, None, 3	442368	activation_90[0][0]
average_pooling2d_8 (AveragePoo	(None, None, None, 2	0	mixed9[0][0]
conv2d_85 (Conv2D)	(None, None, None, 3	655360	mixed9[0][0]
batch_normalization_87 (BatchNo	(None, None, None, 3	1152	conv2d_87[0][0]
batch_normalization_88 (BatchNo	(None, None, None, 3	1152	conv2d_88[0][0]
batch_normalization_91 (BatchNo	(None, None, None, 3	1152	conv2d_91[0][0]
batch_normalization_92 (BatchNo	(None, None, None, 3	1152	conv2d_92[0][0]
conv2d_93 (Conv2D)	(None, None, None, 1	393216	average_pooling2d_8[0][0]
batch_normalization_85 (BatchNo	(None, None, None, 3	960	conv2d_85[0][0]
activation_87 (Activation)	(None, None, None, 3	0	batch_normalization_87[0][0]
activation_88 (Activation)	(None, None, None, 3	0	batch_normalization_88[0][0]
activation_91 (Activation)	(None, None, None, 3	0	batch_normalization_91[0][0]
activation_92 (Activation)	(None, None, None, 3	0	batch_normalization_92[0][0]
batch_normalization_93 (BatchNo	(None, None, None, 1	576	conv2d_93[0][0]
activation_85 (Activation)	(None, None, None, 3	0	batch_normalization_85[0][0]
mixed9_1 (Concatenate)	(None, None, None, 7	0	activation_87[0][0] activation_88[0][0]
concatenate_1 (Concatenate)	(None, None, None, 7	0	activation_91[0][0] activation_92[0][0]
activation_93 (Activation)	(None, None, None, 1	0	batch_normalization_93[0][0]
mixed10 (Concatenate)	(None, None, None, 2	0	activation_85[0][0] mixed9_1[0][0] concatenate_1[0][0] activation_93[0][0]
global_average_pooling2d (Globa	(None, 2048)	0	mixed10[0][0]
dense (Dense)	(None, 128)	262272	global_average_pooling2d[0][0]
dropout (Dropout)	(None, 128)	0	dense[0][0]
flatten (Flatten)	(None, 128)	0	dropout[0][0]
dense_1 (Dense)	(None, 3)	387	flatten[0][0]

```
Total params: 22,065,443
Trainable params: 22,031,011
Non-trainable params: 34,432
```

---

In [70]:

```
history = model_inc.fit(train_generator,
                        steps_per_epoch=nb_train_samples // batch_size,
                        validation_data=validation_generator,
                        validation_steps=nb_validation_samples // batch_size,
                        epochs=20, verbose=1,
                        callbacks=[csv_logger, checkpoint, earlystop, tensorboard_callback])

model_inc.save('my_model_trained_inception.hdf5')

Epoch 1/20
140/140 [=====] - 71s 460ms/step - loss: 1.1924 - accuracy: 0.3622 - val_loss: 0.9148 - val_accuracy: 0.6345

Epoch 00001: val_accuracy improved from -inf to 0.63451, saving model to best_model_inception.hdf5
Epoch 2/20
140/140 [=====] - 62s 444ms/step - loss: 0.9315 - accuracy: 0.6057 - val_loss: 0.7149 - val_accuracy: 0.8261

Epoch 00002: val_accuracy improved from 0.63451 to 0.82609, saving model to best_model_inception.hdf5
Epoch 3/20
140/140 [=====] - 62s 440ms/step - loss: 0.7795 - accuracy: 0.7135 - val_loss: 0.5818 - val_accuracy: 0.8587

Epoch 00003: val_accuracy improved from 0.82609 to 0.85870, saving model to best_model_inception.hdf5
Epoch 4/20
140/140 [=====] - 62s 440ms/step - loss: 0.6418 - accuracy: 0.7985 - val_loss: 0.4754 - val_accuracy: 0.8832

Epoch 00004: val_accuracy improved from 0.85870 to 0.88315, saving model to best_model_inception.hdf5
Epoch 5/20
140/140 [=====] - 62s 442ms/step - loss: 0.6106 - accuracy: 0.7902 - val_loss: 0.4062 - val_accuracy: 0.8886

Epoch 00005: val_accuracy improved from 0.88315 to 0.88859, saving model to best_model_inception.hdf5
Epoch 6/20
140/140 [=====] - 62s 444ms/step - loss: 0.5360 - accuracy: 0.8182 - val_loss: 0.3487 - val_accuracy: 0.9130

Epoch 00006: val_accuracy improved from 0.88859 to 0.91304, saving model to best_model_inception.hdf5
Epoch 7/20
140/140 [=====] - 62s 441ms/step - loss: 0.4894 - accuracy: 0.8356 - val_loss: 0.3111 - val_accuracy: 0.9130

Epoch 00007: val_accuracy did not improve from 0.91304
Epoch 8/20
140/140 [=====] - 62s 444ms/step - loss: 0.4286 - accuracy: 0.8598 - val_loss: 0.2853 - val_accuracy: 0.9198

Epoch 00008: val_accuracy improved from 0.91304 to 0.91984, saving model to best_model_inception.hdf5
Epoch 9/20
140/140 [=====] - 62s 441ms/step - loss: 0.4174 - accuracy: 0.8540 - val_loss: 0.2600 - val_accuracy: 0.9348

Epoch 00009: val_accuracy improved from 0.91984 to 0.93478, saving model to best_model_inception.hdf5
Epoch 10/20
140/140 [=====] - 63s 447ms/step - loss: 0.3777 - accuracy: 0.8706 - val_loss: 0.2497 - val_accuracy: 0.9253

Epoch 00010: val_accuracy did not improve from 0.93478
Epoch 11/20
140/140 [=====] - 62s 441ms/step - loss: 0.3681 - accuracy: 0.8687 - val_loss: 0.2329 - val_accuracy: 0.9361

Epoch 00011: val_accuracy improved from 0.93478 to 0.93614, saving model to best_model_inception.hdf5
Epoch 12/20
140/140 [=====] - 62s 446ms/step - loss: 0.3619 - accuracy: 0.8727 - val_loss: 0.2222 - val_accuracy: 0.9348
```

Epoch 00012: val\_accuracy did not improve from 0.93614

```
Epoch 00012: val_accuracy did not improve from 0.93614
Epoch 13/20
140/140 [=====] - 62s 443ms/step - loss: 0.3059 - accuracy: 0.9039 - val_loss: 0.2155 - val_accuracy: 0.9361

Epoch 00013: val_accuracy did not improve from 0.93614
Epoch 00013: early stopping
```

In [ ]:

```
from keras.models import load_model

model_mn = load_model('my_model_trained_inception.h5')
```

In [71]:

```
print(log_dir)
```

```
content/gdrive/MyDrive/food-101/logs_model_inception\fit\20210226-080231
```

In [72]:

```
%load_ext tensorboard
```

The tensorboard extension is already loaded. To reload it, use:

```
%reload_ext tensorboard
```

In [74]:

```
%tensorboard --inspect --logdir content/gdrive/MyDrive/food-101/logs_model_inception\\fit\\20210226-080231
```

```
ERROR: Failed to launch TensorBoard (exited with 0).
```

Contents of stderr:

```
2021-02-26 08:23:56.544153: I tensorflow/stream_executor/platform/default/dso_loader.cc:49] Successfull y opened dynamic library libcudart.so.10.1
```

Contents of stdout:

```
=====
```

```
Processing event files... (this can take a few minutes)
```

```
=====
```

Found event files in:

```
content/gdrive/MyDrive/food-101/logs_model_inception\fit\20210226-080231/train
content/gdrive/MyDrive/food-101/logs_model_inception\fit\20210226-080231/validation
```

These tags are in content/gdrive/MyDrive/food-101/logs\_model\_inception\fit\20210226-080231/train:

audio -

histograms

```
batch_normalization/beta_0
batch_normalization/moving_mean_0
batch_normalization/moving_variance_0
batch_normalization_1/beta_0
batch_normalization_1/moving_mean_0
batch_normalization_1/moving_variance_0
batch_normalization_10/beta_0
batch_normalization_10/moving_mean_0
batch_normalization_10/moving_variance_0
batch_normalization_11/beta_0
batch_normalization_11/moving_mean_0
batch_normalization_11/moving_variance_0
batch_normalization_12/beta_0
batch_normalization_12/moving_mean_0
batch_normalization_12/moving_variance_0
batch_normalization_13/beta_0
batch_normalization_13/moving_mean_0
batch_normalization_13/moving_variance_0
batch_normalization_14/beta_0
batch_normalization_14/moving_mean_0
batch_normalization_14/moving_variance_0
batch_normalization_15/beta_0
batch_normalization_15/moving_mean_0
```







batch\_normalization\_85/moving\_mean\_0  
batch\_normalization\_85/moving\_variance\_0  
batch\_normalization\_86/beta\_0  
batch\_normalization\_86/moving\_mean\_0  
batch\_normalization\_86/moving\_variance\_0  
batch\_normalization\_87/beta\_0  
batch\_normalization\_87/moving\_mean\_0  
batch\_normalization\_87/moving\_variance\_0  
batch\_normalization\_88/beta\_0  
batch\_normalization\_88/moving\_mean\_0  
batch\_normalization\_88/moving\_variance\_0  
batch\_normalization\_89/beta\_0  
batch\_normalization\_89/moving\_mean\_0  
batch\_normalization\_89/moving\_variance\_0  
batch\_normalization\_9/beta\_0  
batch\_normalization\_9/moving\_mean\_0  
batch\_normalization\_9/moving\_variance\_0  
batch\_normalization\_90/beta\_0  
batch\_normalization\_90/moving\_mean\_0  
batch\_normalization\_90/moving\_variance\_0  
batch\_normalization\_91/beta\_0  
batch\_normalization\_91/moving\_mean\_0  
batch\_normalization\_91/moving\_variance\_0  
batch\_normalization\_92/beta\_0  
batch\_normalization\_92/moving\_mean\_0  
batch\_normalization\_92/moving\_variance\_0  
batch\_normalization\_93/beta\_0  
batch\_normalization\_93/moving\_mean\_0  
batch\_normalization\_93/moving\_variance\_0  
conv2d/kernel\_0  
conv2d\_1/kernel\_0  
conv2d\_10/kernel\_0  
conv2d\_11/kernel\_0  
conv2d\_12/kernel\_0  
conv2d\_13/kernel\_0  
conv2d\_14/kernel\_0  
conv2d\_15/kernel\_0  
conv2d\_16/kernel\_0  
conv2d\_17/kernel\_0  
conv2d\_18/kernel\_0  
conv2d\_19/kernel\_0  
conv2d\_2/kernel\_0  
conv2d\_20/kernel\_0  
conv2d\_21/kernel\_0  
conv2d\_22/kernel\_0  
conv2d\_23/kernel\_0  
conv2d\_24/kernel\_0  
conv2d\_25/kernel\_0  
conv2d\_26/kernel\_0  
conv2d\_27/kernel\_0  
conv2d\_28/kernel\_0  
conv2d\_29/kernel\_0  
conv2d\_3/kernel\_0  
conv2d\_30/kernel\_0  
conv2d\_31/kernel\_0  
conv2d\_32/kernel\_0  
conv2d\_33/kernel\_0  
conv2d\_34/kernel\_0  
conv2d\_35/kernel\_0  
conv2d\_36/kernel\_0  
conv2d\_37/kernel\_0  
conv2d\_38/kernel\_0  
conv2d\_39/kernel\_0  
conv2d\_4/kernel\_0  
conv2d\_40/kernel\_0  
conv2d\_41/kernel\_0  
conv2d\_42/kernel\_0  
conv2d\_43/kernel\_0  
conv2d\_44/kernel\_0  
conv2d\_45/kernel\_0  
conv2d\_46/kernel\_0  
conv2d\_47/kernel\_0  
conv2d\_48/kernel\_0  
conv2d\_49/kernel\_0  
conv2d\_5/kernel\_0  
conv2d\_50/kernel\_0  
conv2d\_51/kernel\_0  
conv2d\_52/kernel\_0

```
conv2d_02/kernel_0
conv2d_53/kernel_0
conv2d_54/kernel_0
conv2d_55/kernel_0
conv2d_56/kernel_0
conv2d_57/kernel_0
conv2d_58/kernel_0
conv2d_59/kernel_0
conv2d_6/kernel_0
conv2d_60/kernel_0
conv2d_61/kernel_0
conv2d_62/kernel_0
conv2d_63/kernel_0
conv2d_64/kernel_0
conv2d_65/kernel_0
conv2d_66/kernel_0
conv2d_67/kernel_0
conv2d_68/kernel_0
conv2d_69/kernel_0
conv2d_7/kernel_0
conv2d_70/kernel_0
conv2d_71/kernel_0
conv2d_72/kernel_0
conv2d_73/kernel_0
conv2d_74/kernel_0
conv2d_75/kernel_0
conv2d_76/kernel_0
conv2d_77/kernel_0
conv2d_78/kernel_0
conv2d_79/kernel_0
conv2d_8/kernel_0
conv2d_80/kernel_0
conv2d_81/kernel_0
conv2d_82/kernel_0
conv2d_83/kernel_0
conv2d_84/kernel_0
conv2d_85/kernel_0
conv2d_86/kernel_0
conv2d_87/kernel_0
conv2d_88/kernel_0
conv2d_89/kernel_0
conv2d_9/kernel_0
conv2d_90/kernel_0
conv2d_91/kernel_0
conv2d_92/kernel_0
conv2d_93/kernel_0
dense/bias_0
dense/kernel_0
dense_1/bias_0
dense_1/kernel_0
images -
scalars
```

```
    epoch_accuracy
    epoch_loss
```

```
tensor
```

```
    batch_2
    keras
```

---

```
Event statistics for content/gdrive/MyDrive/food-101/logs_model_inception\fit\20210226-080231/train:
audio -
graph
  first_step      0
  last_step       0
  max_step        0
  min_step        0
  num_steps       1
  outoforder_steps []
histograms
  first_step      0
  last_step       12
  max_step        12
  min_step        0
  num_steps       13
  outoforder_steps []
images -
scalars
  first_step      0
```

```
    first_step      0
    last_step       2
    max_step        2
    min_step        0
    num_steps       2
    outoforder_steps []
sessionlog:checkpoint -
sessionlog:start -
sessionlog:stop -
tensor
=====
```

These tags are in content/gdrive/MyDrive/food-101/logs\_model\_inception\fit\20210226-080231/validation:  
audio -  
histograms -  
images -  
scalars  
 epoch\_accuracy  
 epoch\_loss  
tensor -  
=====

Event statistics for content/gdrive/MyDrive/food-101/logs\_model\_inception\fit\20210226-080231/validation:  
n:  
audio -  
graph -  
histograms -  
images -  
scalars  
 first\_step 0
 last\_step 12
 max\_step 12
 min\_step 0
 num\_steps 13
 outoforder\_steps []
sessionlog:checkpoint -
sessionlog:start -
sessionlog:stop -
tensor -  
=====

In [75]:

```
%tensorboard --logdir content/gdrive/MyDrive/food-101/logs_model_inception\\fit\\20210226-080231
```

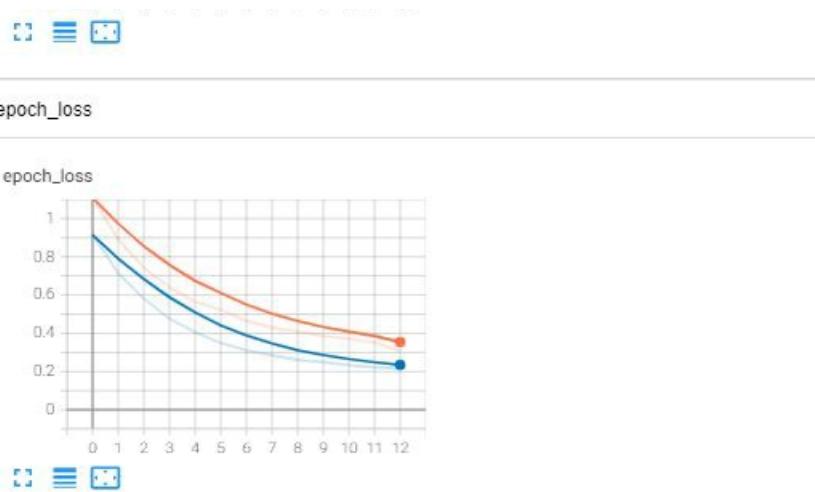
## Tensorboard images

In [72]:

```
Image('content/20210226-080231_1.png')
```

Out[72]:

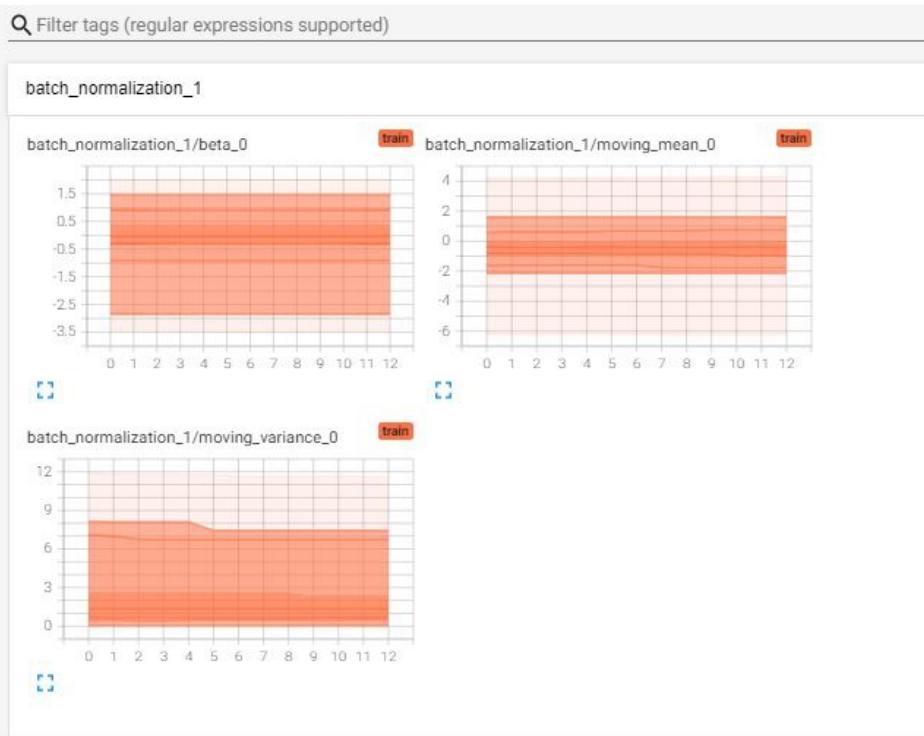
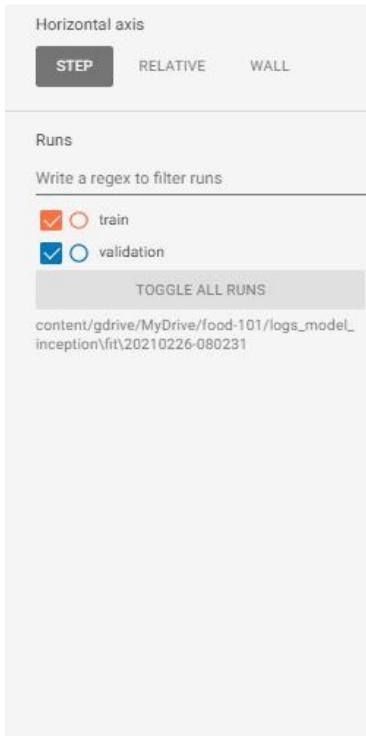




In [73]:

```
Image('/content/20210226-080231_2.png')
```

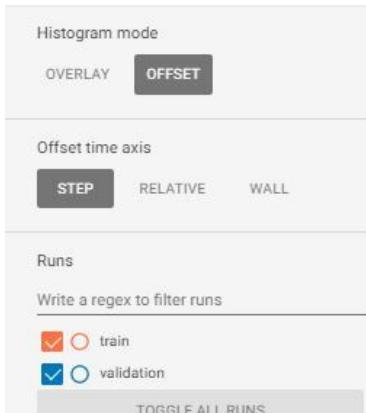
Out[73]:



In [74]:

```
Image('/content/20210226-080231_3.png')
```

Out[74]:





## Summary & Observations:

- For this model, we can observe that the gap between train & test worms is least for our chosen model weights. Thus, we are not overfitting the data.
- By looking at the epoch loss & epoch accuracy plots above, we can observe that the loss & weights are optimal, i.e. least loss & highest accuracy.
- I have used Transfer Learning for this model & used the InceptionV3 model.
- Techniques such as regularization & dropouts have been used in order to avoid overfit on the train data.
- I have used a batch normalization layer in order to ensure that the distribution of data doesn't change while it is passed from start to end layers.
- Activation used is ReLU for Dense layers & softmax activation for the output layer as it is a multiclass classification problem.
- I have used adaptive moment estimation in the form of Adam optimizer.
- For this model in my case:

Total params: 22,065,443

Trainable params: 22,031,011

Non-trainable params: 34,432

## Summary of all Models

In [49]:

```
from prettytable import PrettyTable
```

In [53]:

```
x = PrettyTable()
x.field_names = ["Serial Number", "Model", "Train Accuracy", "Test Accuracy", "Train Loss", "Test Loss",
, "Training Speed", "Prediction Speed(ms)"]
x.add_row([1, "MobileNetV2", 82.4800, 90.3500, 0.4907, 0.2770, "Fastest", 6.04])
x.add_row([2, "ResNet50", 95.4667, 94.6667, 0.2164, 0.2608, "Medium", 6.67])
x.add_row([3, "InceptionV3", 87.2700, 93.6140, 0.3619, 0.2222, "Slowest", 6.92])
print(x)
```

Serial Number	Model	Train Accuracy	Test Accuracy	Train Loss	Test Loss	Training Speed	Prediction Speed(ms)
1	MobileNetV2	82.48	90.35	0.4907	0.277	Fastest	6.04
2	ResNet50	95.4667	94.6667	0.2164	0.2608	Medium	6.67
3	InceptionV3	87.27	93.614	0.3619	0.2222	Slowest	6.92