ninjacart-case-study-2

December 9, 2023

1 Case Study : Ninjacart

Ninjacart is India's largest fresh produce supply chain company, connecting producers directly with the retailers.

- You are a Data Scientist at *Ninjacart*, you have curated a dataset consisting of some vegetables and other images at a vegetable market.
- You want to classify these images using computer vision with the most efficient and accurate model to integrate in your app.
- We will explore how to preprocess, load, augment our raw data and train state-of-the-art model architectures on it and compare them to analyze the best model for our use-case.

How Ninjacart works

Problem Overview

2 Importing required libraries

Importing the required libraries which we will be using throughout our training pipeline

```
[]: import os
  import glob
  import random
  import pandas as pd
  import seaborn as sns
  import tensorflow as tf
  import matplotlib.pyplot as plt
```

3 Loading the Data

Downloading our Dataset from Google drive using gdown command

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[]: gdown https://drive.google.com/uc?id=1aUvpiQMF2LRiS0GxeldFIZL1mIGeSsLQ
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Downloading...

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To: /content/ninjacart_data.zip

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```

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inflating: ninjacart_data/train/tomato/tomato99.png
```

4 Data Exploration

Let's analyze what data we have curated!

We can visualize from the data directory, the data is divided into train/test folders, consisting of four subfolders containing images of : - Indian market - Onion - Potato - Tomato

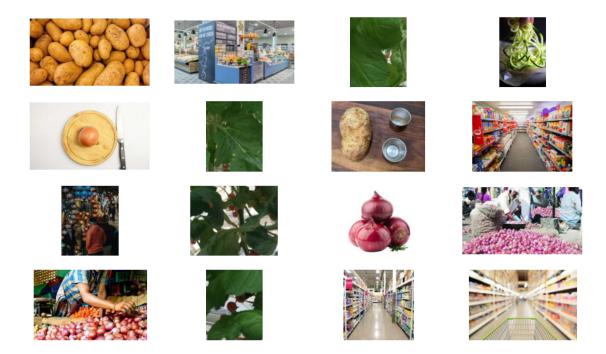
Directory structure of our Dataset

4.1 Visualizing our Images

Now let's plot some random images from our Dataset from each class!

```
[]: train_folder = '/content/ninjacart_data/train'
     images = []
     for folder in os.listdir(train_folder):
       for image in os.listdir(train_folder + '/' + folder):
         images.append(os.path.join(train_folder, folder, image))
     fig = plt.figure(1, figsize=(15, 9))
     fig.suptitle('Data overview', fontsize=25)
     plt.axis('off')
     n = 0
     for i in range(16):
      n += 1
      random_img = random.choice(images)
       imgs = tf.keras.utils.load_img(random_img)
      plt.subplot(4, 4, n)
      plt.axis('off')
      plt.imshow(imgs)
     plt.show()
```

Data overview



- We write a code snippet to fetch the paths of all images for every class in our train and test set in root folder, which we will use later to test our model on random samples.
- The image arrays and count for every class are stored in a dictionary to plot its distribution

```
class_dirs = os.listdir("/content/ninjacart_data/train") # list all directories
image_dict = {} # dict to store image array(key) for every class(value)
count_dict = {} # dict to store count of files(key) for every class(value)

# iterate over all class_dirs
for cls in class_dirs:
    # get list of all paths inside the subdirectory
    file_paths = glob.glob(f'/content/ninjacart_data/train/{cls}/*')
    # count number of files in each class and add it to count_dict
    count_dict[cls] = len(file_paths)
    # select random item from list of image paths
    image_path = random.choice(file_paths)
    # load image using keras utility function and save it in image_dict
    image_dict[cls] = tf.keras.utils.load_img(image_path)
```

Store image arrays and count for each class in test data:

4.2 Image Dimensions Analysis:

Plot a Grid of training samples from each class to display their dimensions

```
[]: # Visualize Random Sample from each class

plt.figure(figsize=(15, 7))
# iterate over dictionary items (class label, image array)
for i, (cls,img) in enumerate(image_dict.items()):
    # create a subplot axis
    ax = plt.subplot(1, 4, i + 1)
    # plot each image
    plt.imshow(img)
    # set "class name" along with "image size" as title
    plt.title(f'{cls}, {img.size}')
    plt.axis("off")
```









- Analyze how our Dataset consists of uneven sized images!
- We have some images of the market, which we will label as class 'noise'

• To feed this data into our models, we need to preprocess it

4.3 Class Distribution Analysis:

- Let's visualize how many samples of each class we have and if there's any class imbalance or not
- Plotting our Class distributions using our image_dict and count_dict which stores the images for each class along with its count
- We also feed our count_dict to a Dataframe to print the count for each class in our training and test directories

```
[]: | # Let's now Plot the Data Distribution of Training Data across Classes
    df_count_train = pd.DataFrame({
         "class": count_dict.keys(),  # keys of count_dict are class labels
        "count": count_dict.values(), # value of count_dict contain counts of_
     ⇔each class
    })
    print("Count of training samples per class:\n", df_count_train, "\n")
    # draw a bar plot using pandas in-built plotting function
    b = df_count_train.plot.bar(x='class', y='count', title="Training Data Count_
      oper class", label='train sample count', color='purple', figsize = (10, 6.5),
      ⇔fontsize=12.5)
     # Annotate the bars in our plot with their values
    for q in b.patches:
        b.annotate(f'(q.get_height():0.2f)', (q.get_x() + q.get_width() / 2., q.
      ⇒get height()),
                   ha = 'center', va = 'center', xytext = (0, 10), textcoords =
      plt.show()
```

Count of training samples per class:

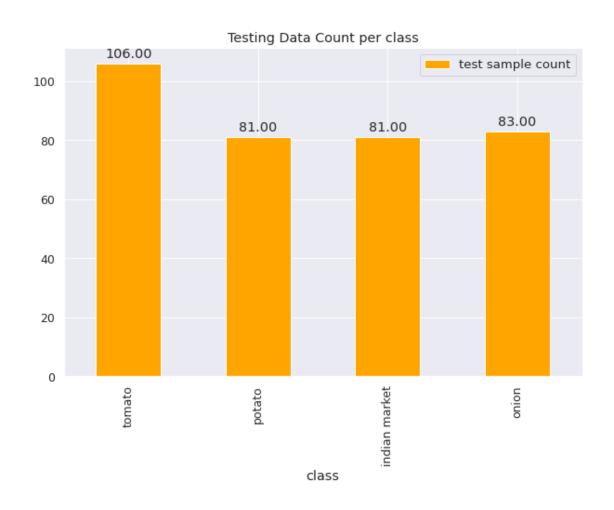
```
class count
tomato 789
potato 898
indian market 599
onion 849
```



- From the above plot, we can quickly analyze that our Data is not evenly distributed, but is also not imbalanced, so we are good to go!
- But what about the minority class (indian market)?
 - We will use some {techniques} before feeding images to our network so that our model is generalized and is not biased for any class!

Count of testing samples per class:

		class	count
0		tomato	106
1		potato	81
2	indian	market	81
3		onion	83



5 Mounting the Dataset

Now that we have analyzed and Explored our Raw Data, now to feed our Data into our model, - Every image needs to be labelled according to its class and converted to a tensor. - We will split our data into 3 sets: Train, Test and Validation

For this task, we will use tf.keras.utils.image_dataset_from_directory, which will:

- Create an (image, label) pair for every image
- Automatically label the images using one-hot encoding
 - Eg: An image in the folder *indian market* will be labelled as [1, 0, 0, 0]
 - Since we have 4 classes, our classes will be one-hot encoded alphabetically,
 - meaning our first class is indian market, fourth will be tomato.
- Batching (Grouping) images together according to batch_size
- Resize the Images to the shape (256, 256)
- Seed the shuffling of our images, so that it shuffles in a 'fixed' way
 - which will be used to create our validation data
- Splitting 20% of our training data for validation
- Shuffling the data according to the seed

```
[]: train_dir = '/content/ninjacart_data/train'
test_dir = '/content/ninjacart_data/test'
```

```
[]: # Specifying the image size to resize all images image_size = (256, 256)
```

Found 3135 files belonging to 4 classes. Using 2508 files for training.

```
)
```

Found 351 files belonging to 4 classes.

Specifying our Validation data, which we took from our train_ds specifying validation_split = 0.2

We take the last 20% data from our train ds, we use the same seed as train ds

Found 3135 files belonging to 4 classes. Using 627 files for validation.

Since label_mode = 'categorical' one-hot encodes the classes alphabetically, indian market (which we consider noise) = class 1 and tomato = class 4

```
[]: # index 0 1 2 3
class_names = ['noise', 'onion', 'potato', 'tomato']
```

6 Building custom CNN model

Let's build a baseline CNN Architecture with some Convolutional blocks which MaxPooling

6.1 Defining the model architecture

6.2 Compiling the model

6.3 Model Training

• Implementing TensorBoard callback to plot our model's metrics later and store them in our log directory

```
Epoch 1/20
accuracy: 0.3620 - precision: 1.0000 - recall: 0.0012 - val_loss: 1.1790 -
val_accuracy: 0.4928 - val_precision: 1.0000 - val_recall: 0.0112
Epoch 2/20
79/79 [=========== ] - 11s 127ms/step - loss: 1.0026 -
accuracy: 0.5897 - precision: 0.7691 - recall: 0.2803 - val_loss: 0.8633 -
val_accuracy: 0.6699 - val_precision: 0.8224 - val_recall: 0.4211
accuracy: 0.7077 - precision: 0.8084 - recall: 0.5247 - val_loss: 0.7331 -
val_accuracy: 0.7177 - val_precision: 0.8030 - val_recall: 0.5917
Epoch 4/20
accuracy: 0.7261 - precision: 0.8119 - recall: 0.6300 - val_loss: 0.6906 -
val_accuracy: 0.7400 - val_precision: 0.8099 - val_recall: 0.6252
Epoch 5/20
accuracy: 0.7600 - precision: 0.8173 - recall: 0.6707 - val_loss: 0.6490 -
val_accuracy: 0.7368 - val_precision: 0.8216 - val_recall: 0.6683
```

```
Epoch 6/20
accuracy: 0.7576 - precision: 0.8204 - recall: 0.6922 - val_loss: 0.6229 -
val_accuracy: 0.7592 - val_precision: 0.8184 - val_recall: 0.6826
Epoch 7/20
accuracy: 0.7691 - precision: 0.8258 - recall: 0.7030 - val loss: 0.6159 -
val_accuracy: 0.7400 - val_precision: 0.8320 - val_recall: 0.6794
Epoch 8/20
79/79 [============ ] - 11s 126ms/step - loss: 0.5813 -
accuracy: 0.7815 - precision: 0.8309 - recall: 0.7169 - val_loss: 0.5958 -
val_accuracy: 0.7592 - val_precision: 0.8285 - val_recall: 0.6858
Epoch 9/20
accuracy: 0.7831 - precision: 0.8339 - recall: 0.7209 - val_loss: 0.5730 -
val_accuracy: 0.7751 - val_precision: 0.8299 - val_recall: 0.7161
Epoch 10/20
79/79 [=========== ] - 11s 126ms/step - loss: 0.5606 -
accuracy: 0.7855 - precision: 0.8312 - recall: 0.7325 - val_loss: 0.5837 -
val_accuracy: 0.7687 - val_precision: 0.8245 - val_recall: 0.7193
Epoch 11/20
accuracy: 0.7839 - precision: 0.8313 - recall: 0.7249 - val_loss: 0.5952 -
val_accuracy: 0.7719 - val_precision: 0.8100 - val_recall: 0.7209
Epoch 12/20
accuracy: 0.7903 - precision: 0.8416 - recall: 0.7352 - val_loss: 0.5636 -
val_accuracy: 0.7783 - val_precision: 0.8261 - val_recall: 0.7273
Epoch 13/20
accuracy: 0.7986 - precision: 0.8367 - recall: 0.7436 - val_loss: 0.5481 -
val_accuracy: 0.7943 - val_precision: 0.8312 - val_recall: 0.7305
Epoch 14/20
79/79 [=========== ] - 11s 126ms/step - loss: 0.5242 -
accuracy: 0.7990 - precision: 0.8396 - recall: 0.7452 - val loss: 0.5436 -
val_accuracy: 0.7927 - val_precision: 0.8489 - val_recall: 0.7257
Epoch 15/20
79/79 [=========== ] - 11s 126ms/step - loss: 0.5104 -
accuracy: 0.8014 - precision: 0.8439 - recall: 0.7524 - val_loss: 0.5339 -
val_accuracy: 0.7911 - val_precision: 0.8445 - val_recall: 0.7448
Epoch 16/20
accuracy: 0.7994 - precision: 0.8398 - recall: 0.7460 - val_loss: 0.6023 -
val_accuracy: 0.7719 - val_precision: 0.8305 - val_recall: 0.7113
Epoch 17/20
accuracy: 0.8086 - precision: 0.8541 - recall: 0.7584 - val_loss: 0.5848 -
val_accuracy: 0.7815 - val_precision: 0.8282 - val_recall: 0.7305
```

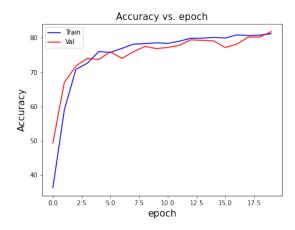
6.4 Plotting our Model's performance

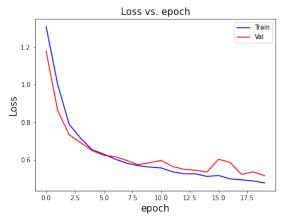
```
[]: def plot_acc_loss(model_history, n_epochs):
       fig, axes = plt.subplots(nrows=1, ncols=2,figsize=(15,5))
       ax = axes.ravel()
       #accuracy graph
       ax[0].plot(range(0, n_epochs), [acc * 100 for acc in model_history.
      ⇔history['accuracy']], label='Train', color='b')
       ax[0].plot(range(0, n_epochs), [acc * 100 for acc in model_history.
      ⇔history['val_accuracy']], label='Val', color='r')
       ax[0].set_title('Accuracy vs. epoch', fontsize=15)
       ax[0].set_ylabel('Accuracy', fontsize=15)
       ax[0].set_xlabel('epoch', fontsize=15)
       ax[0].legend()
       #loss graph
       ax[1].plot(range(0, n_epochs), model_history.history['loss'], label='Train',_

color='b')

       ax[1].plot(range(0, n_epochs), model_history.history['val_loss'],u
      ⇔label='Val', color='r')
       ax[1].set_title('Loss vs. epoch', fontsize=15)
       ax[1].set_ylabel('Loss', fontsize=15)
       ax[1].set_xlabel('epoch', fontsize=15)
       ax[1].legend()
       #display the graph
       plt.show()
```

```
[]: plot_acc_loss(history, n_epochs = 20)
```





[]: model.summary()

Model: "sequential"

Layer (type)		Param #
rescaling (Rescaling)		0
<pre>input_1 (InputLayer)</pre>	multiple	0
conv2d (Conv2D)	(None, 256, 256, 32)	896
conv2d_1 (Conv2D)	(None, 256, 256, 32)	9248
<pre>max_pooling2d (MaxPooling2D)</pre>	(None, 128, 128, 32)	0
conv2d_2 (Conv2D)	(None, 128, 128, 64)	18496
conv2d_3 (Conv2D)	(None, 128, 128, 64)	36928
<pre>max_pooling2d_1 (MaxPooling 2D)</pre>	(None, 64, 64, 64)	0
conv2d_4 (Conv2D)	(None, 64, 64, 128)	73856
<pre>global_average_pooling2d (G lobalAveragePooling2D)</pre>	(None, 128)	0
dense (Dense)	(None, 4)	516

```
Total params: 139,940
Trainable params: 139,940
Non-trainable params: 0
```

6.5 Testing the model

We list all the files in our test directory and append their complete paths to a list *test_images* which we will use to test our model by predicting on on random unseen data

```
[]: test_images = []

for folder in os.listdir(test_dir):
   for image in os.listdir(test_dir + '/' + folder):
      test_images.append(os.path.join(test_dir, folder, image))
```

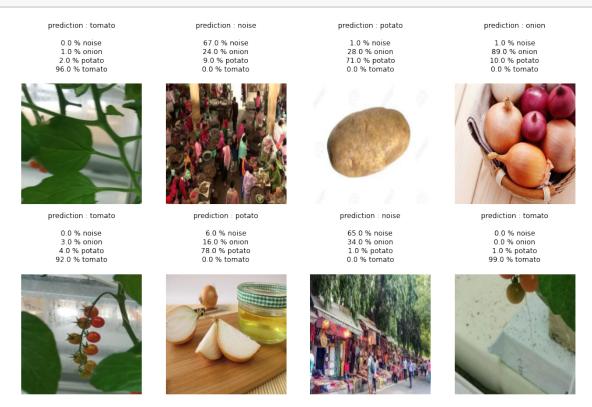
6.5.1 Random Sample testing

To test our model on a random sample: - Read a random image from test_images list containing paths of all test images - Resize an image to (256, 256) - Add an extra dimension to our image's first dimension index - Predict on the image using model.predict()

```
[ ]: def grid_test_model(model_name):
       fig = plt.figure(1, figsize=(17, 11))
       plt.axis('off')
      n = 0
       for i in range(8):
         n += 1
         img_0 = tf.keras.utils.load_img(random.choice(test_images))
         img_0 = tf.keras.utils.img_to_array(img_0)
         img 0 = tf.image.resize(img 0, (256, 256))
         img_1 = tf.expand_dims(img_0, axis = 0)
         pred = model_name.predict(img_1)
         predicted_label = tf.argmax(pred, 1).numpy().item()
         for item in pred :
           item = tf.round((item*100))
         plt.subplot(2, 4, n)
         plt.axis('off')
         plt.title(f'prediction : {class_names[predicted_label]}\n\n'
                   f'{item[0]} % {class_names[0]}\n'
                   f'{item[1]} % {class_names[1]}\n'
                   f'{item[2]} % {class_names[2]}\n'
                   f'{item[3]} % {class_names[3]}\n')
```

```
plt.imshow(img_0/255)
plt.show()
```

[]: grid_test_model(model)



By observing the above plot, we can analyze that our Model is **not too sure** of the correct class.... We have to revamp our model to increase its confidence

Also, notice how our images are evenly sized (256x256) now!

6.5.2 Evaluating accuracy on each class

First we specify paths of each of our test classes

- We define a function classwise_accuracy which calculates accuracy for each class by taking in class path and model,
- We append all the file paths for the input class in a list
- from which we predict on all images and check if the label and predicted label are equal, according to which we calculate the accuracy of our model on the input class

```
[]: noise_path = '/content/ninjacart_data/test/indian market'
  onion_path = '/content/ninjacart_data/test/onion'
  potato_path = '/content/ninjacart_data/test/potato'
  tomato_path = '/content/ninjacart_data/test/tomato'
```

```
[]: def classwise_accuracy(class_path, class_name, model_name) :
         paths = []
         for i in os.listdir(class_path):
             paths.append(class_path + "/" + str(i))
         correct = 0
         total = 0
         for i in range(len(paths)):
             total += 1
             img = tf.keras.utils.load_img(paths[i])
             img = tf.keras.utils.img_to_array(img)
             img = tf.image.resize(img, (256, 256))
             img = tf.expand_dims(img, axis = 0)
             pred = model_name.predict(img)
             if tf.argmax(pred[0]) == class_names.index(f"{class_name}"):
                 correct+= 1
         print(f"Accuracy for class {class_name} is {round((correct/total)*100, 2)}%__

→consisting of {len(paths)} images")
```

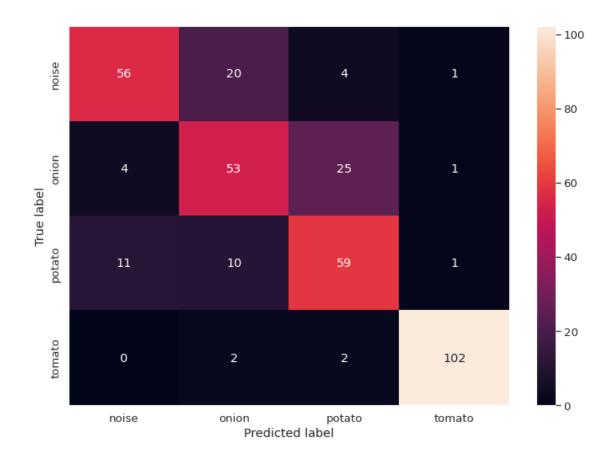
```
[]: classwise_accuracy(noise_path, 'noise', model)
   classwise_accuracy(onion_path, 'onion', model)
   classwise_accuracy(potato_path, 'potato', model)
   classwise_accuracy(tomato_path, 'tomato', model)
```

```
Accuracy for class noise is 69.14% consisting of 81 images
Accuracy for class onion is 63.86% consisting of 83 images
Accuracy for class potato is 72.84% consisting of 81 images
Accuracy for class tomato is 96.23% consisting of 106 images
```

6.5.3 Plotting the Confusion Matrix:

- We define four empty lists, in which we will store predicted classes by our model for a particular class images
- We define a function conf_mat which takes in the path of the class, empty list and the model
- The function reads an image from the given path, resizes it and converts to RGB
- Add an extra dimension at first index of the image and predict on the image with the input model
- Check which class the model has predicted the image belongs to and
- append +1 to the index of the class
 - Eg: If the model predicts that the image belongs to class tomato
 - we will append +1 at the fourth index(3) of our list like [0, 0, 0, 1]
- After calculating the value in our 4 lists for each class, we combine them, which gives us the confusion matrix of our model and plot them with seaborn

```
[]: noise, tomato, potato, onion = 0, 0, 0, 0
    11 = []
    12 = []
    13 = []
    14 = []
[]: sns.set(rc={'figure.figsize':(11.7, 8.27)})
    sns.set(font_scale=1.2)
[]: def conf_mat(class_path, pred_list, model_name) :
        noise, tomato, potato, onion = 0, 0, 0, 0
        for i in os.listdir(class_path):
            img = tf.keras.utils.load_img(class_path + "/" + str(i))
            img = tf.keras.utils.img_to_array(img)
            img = tf.image.resize(img, (256, 256))
            img = tf.expand_dims(img, axis = 0)
            pred = model_name.predict(img)
            predicted = tf.argmax(pred, 1).numpy().item()
            if predicted == 0:
                noise+= 1
            elif predicted == 1:
                onion+= 1
            elif predicted == 2:
                potato+= 1
            else:
                tomato+= 1
        for item in noise, onion, potato, tomato :
            pred_list.append(item)
[]: conf_mat(noise_path, l1, model)
    conf_mat(onion_path, 12, model)
    conf_mat(potato_path, 13, model)
    conf_mat(tomato_path, 14, model)
    ax = sns.heatmap([11, 12, 13, 14], xticklabels=class_names,_
     ax.set(xlabel='Predicted label', ylabel='True label')
    plt.show()
```



- We can observe that our basline CNN model has a categorical cross entropy loss of ~ 0.5
- which indicates overfitting, now let's work on how we can improve our model's performance by using some certain techniques!

7 Model Tuning - Solving Overfitting

7.1 Augmenting our Data

• Data Augmentation introduces our model to different aspects and visualizations of class images, therefore increasing model generalization

- We apply 3 types of augmentation on our training dataset
 - RandomFlip: randomly flips images horizontally and vertically during training
 - RandomRotation : randomly rotates images during training by a factor
 - RandomTranslation: randomly translates images during training by a shift factor

```
[]: augmentation = tf.keras.Sequential([
          tf.keras.layers.RandomFlip("horizontal_and_vertical"),
          tf.keras.layers.RandomRotation(0.2),
          tf.keras.layers.RandomTranslation(height_factor = 0.2, width_factor=0.2)
])
aug_ds = train_ds

for image, label in aug_ds :
    image = augmentation(image)
```

7.2 Adding BatchNormalization and Dropout

We add Dropout() and BatchNormalization() to our model architecture, which will help in improving its generalization How do they help? - Dropout(): Drops out random neurons while training which forces the model to focus on every feature for prediction

• BatchNormalization(): Normalizes the inputs from previous layer for every mini-batch before sending it to the next layer. Help in mantaining the distribution of our data by making it a normal distribution (mean = 0, std. = 1)

```
[]: model_revamp = tf.keras.Sequential([
     tf.keras.layers.Rescaling(1./255),
     tf.keras.layers.InputLayer(input_shape = [image_size[0], image_size[1], 3]),
     tf.keras.layers.Conv2D(filters = 32, kernel_size = (3,3), padding = 'Same', __
      ⇔activation = 'relu'),
     tf.keras.layers.Conv2D(filters = 32, kernel size = (3,3), padding = 'Same', |
      ⇔activation = 'relu'),
     tf.keras.layers.BatchNormalization(),
     tf.keras.layers.MaxPool2D(pool_size = (2,2)),
     tf.keras.layers.Conv2D(filters = 64, kernel_size = (3,3), padding = 'Same', __
      ⇔activation = 'relu'),
     tf.keras.layers.Conv2D(filters = 64, kernel_size = (3,3), padding = 'Same', __
      ⇒activation = 'relu'),
     tf.keras.layers.BatchNormalization(),
     tf.keras.layers.MaxPool2D(pool_size = (2,2)),
     tf.keras.layers.Conv2D(filters = 128, kernel_size = (3,3), padding = 'Same', __
      ⇔activation = 'relu'),
     tf.keras.layers.BatchNormalization(),
```

```
tf.keras.layers.GlobalAveragePooling2D(),
tf.keras.layers.Dropout(rate = 0.2),

tf.keras.layers.Dense(4, activation = 'softmax')
])
```

7.3 Implementing Callbacks

We specify some callbacks to improve our model training process: - TensorBoard: Enable visualizations for TensorBoard for our model's metrics, which we will plot later

- ModelCheckpoint: Callback to save the model weights at a given frequency, saves the best model having the lowest 'val_loss' by default
- EarlyStopping: Stop training when a monitored metric (val_loss) has stopped improving, after waiting for 5 epochs, specified by patience=5

7.4 Training our Tuned model

```
[]: history_0 = model_revamp.fit(
    train_ds,
    epochs=20,
    validation_data = valid_ds,
    callbacks=[tensorboard_cb, checkpoint_cb, early_stopping_cb])
```

```
val_accuracy: 0.2297 - val_precision: 0.3380 - val_recall: 0.2297
Epoch 3/20
accuracy: 0.8206 - precision: 0.8607 - recall: 0.7711 - val_loss: 1.5693 -
val_accuracy: 0.2297 - val_precision: 0.2466 - val_recall: 0.2297
Epoch 4/20
accuracy: 0.8345 - precision: 0.8726 - recall: 0.7923 - val_loss: 1.5139 -
val_accuracy: 0.2376 - val_precision: 0.2812 - val_recall: 0.2297
Epoch 5/20
accuracy: 0.8445 - precision: 0.8753 - recall: 0.8090 - val_loss: 1.0935 -
val_accuracy: 0.4912 - val_precision: 0.7059 - val_recall: 0.2871
Epoch 6/20
79/79 [=========== ] - 11s 129ms/step - loss: 0.3769 -
accuracy: 0.8581 - precision: 0.8843 - recall: 0.8226 - val loss: 1.1291 -
val_accuracy: 0.4545 - val_precision: 0.5107 - val_recall: 0.3413
Epoch 7/20
accuracy: 0.8596 - precision: 0.8925 - recall: 0.8274 - val_loss: 0.9852 -
val_accuracy: 0.5789 - val_precision: 0.6473 - val_recall: 0.4274
Epoch 8/20
accuracy: 0.8760 - precision: 0.8992 - recall: 0.8497 - val_loss: 0.7633 -
val_accuracy: 0.6986 - val_precision: 0.7763 - val_recall: 0.5758
Epoch 9/20
accuracy: 0.8800 - precision: 0.9028 - recall: 0.8477 - val_loss: 0.4595 -
val_accuracy: 0.8437 - val_precision: 0.8855 - val_recall: 0.7767
Epoch 10/20
accuracy: 0.8728 - precision: 0.8985 - recall: 0.8473 - val_loss: 0.5567 -
val_accuracy: 0.7608 - val_precision: 0.7904 - val_recall: 0.7337
Epoch 11/20
accuracy: 0.8868 - precision: 0.9040 - recall: 0.8596 - val_loss: 0.4880 -
val accuracy: 0.8373 - val precision: 0.8730 - val recall: 0.7783
Epoch 12/20
accuracy: 0.8991 - precision: 0.9161 - recall: 0.8748 - val_loss: 0.5188 -
val_accuracy: 0.8102 - val_precision: 0.8579 - val_recall: 0.7703
Epoch 13/20
79/79 [============ ] - 11s 128ms/step - loss: 0.2823 -
accuracy: 0.8991 - precision: 0.9185 - recall: 0.8852 - val_loss: 0.5315 -
val_accuracy: 0.7847 - val_precision: 0.8085 - val_recall: 0.7608
Epoch 14/20
accuracy: 0.8919 - precision: 0.9098 - recall: 0.8732 - val_loss: 0.4884 -
```

```
val_accuracy: 0.7783 - val_precision: 0.7987 - val_recall: 0.7592
```

```
[ ]: result = model_revamp.evaluate(test_ds)
dict(zip(model_revamp.metrics_names, result))
```

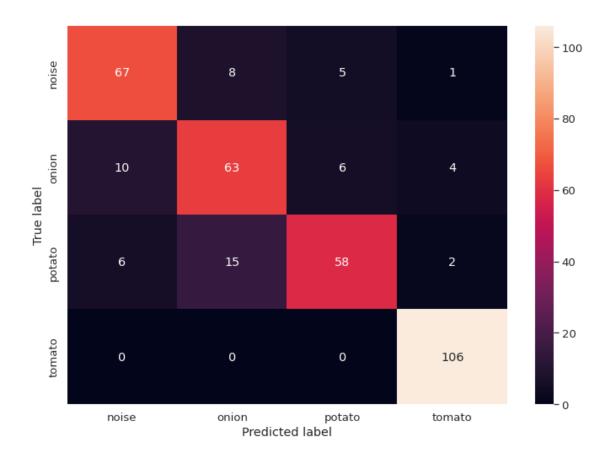
We observe an accuracy jump of $\sim 10 \%$ by just :

- Applying augmentation to our data
- Adding Dropout and BatchNormalization
- Implementing callbacks during training

```
[]: 11 = []
12 = []
13 = []
14 = []

conf_mat(noise_path, 11, model_revamp)
conf_mat(onion_path, 12, model_revamp)
conf_mat(potato_path, 13, model_revamp)
conf_mat(tomato_path, 14, model_revamp)

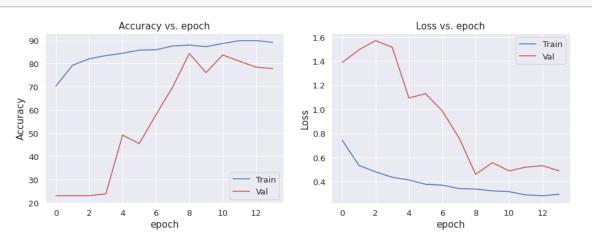
ax = sns.heatmap([11, 12, 13, 14], xticklabels = class_names, yticklabels = class_names, annot = True, fmt = 'g')
ax.set(xlabel = 'Predicted label', ylabel = 'True label')
plt.show()
```



In the Confusion matrix plotted above, we can observe that :

- Our model can easily differentiate between all classes with minimal error
- Potato and onion are the most confusing classes for our model
- Tomato can be easily differentiated with the smallest error

[]: plot_acc_loss(history_0, n_epochs = 14)



```
[]: classwise_accuracy(noise_path, 'noise', model_revamp)
   classwise_accuracy(onion_path, 'onion', model_revamp)
   classwise_accuracy(potato_path, 'potato', model_revamp)
   classwise_accuracy(tomato_path, 'tomato', model_revamp)
```

```
Accuracy for class noise is 82.72% consisting of 81 images
Accuracy for class onion is 75.9% consisting of 83 images
Accuracy for class potato is 71.6% consisting of 81 images
Accuracy for class tomato is 100.0% consisting of 106 images
```

7.4.1 Applying Transfer Learning:

- Now that we solved overfitting problem of our Baseline model,
- Let's also explore and implement some state-of-the-art model architectures which can give us even higher precision and accuracy.
- We explored some of the available pretrained model which we can finetune to our data in Keras docs, We will train 3 of the most efficient and accurate pretrained models on the ImageNet dataset

The Models we will use: - VGG-19 - ResNet - MobileNet

8 VGG-19

VGG-19 performance on ImageNet Dataset, let's find out how it performs on our Data after fine-tuning!

Model	Size (MB)	Top-1 Acc	Top-5 Acc	Parameters	Depth	Time(ms) on CPU	Time (ms) on GPU
VGG19	549	71.3%	90.0%	$143.7\mathrm{M}$	19	84.8	4.4

```
[]: # load base model
base_model_3 = tf.keras.applications.vgg19.VGG19(input_shape=(256, 256, 3),
include_top = False)
```

```
[]: # append classification layer
model_3 = base_model_3.output

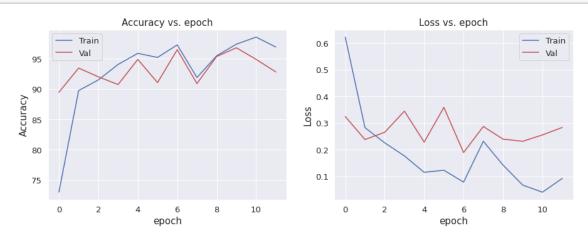
model_3 = tf.keras.Sequential([
```

```
#Normalizing 0-255 into 0 to 1
               tf.keras.layers.Rescaling(1./255),
               tf.keras.layers.InputLayer(input_shape=[image_size[0],__
     →image_size[1], 3]),
               base model 3,
               tf.keras.layers.GlobalAveragePooling2D(),
               tf.keras.layers.Dropout(rate = 0.1),
               tf.keras.layers.Dense(4, activation = 'softmax')
           ])
[]: model_3.compile(optimizer = tf.keras.optimizers.Adam(learning_rate = 1e-4),
                loss = tf.keras.losses.CategoricalCrossentropy(),
                metrics = ['accuracy', 'Precision', 'Recall'])
[]: log_dir_5 = "logs/VGG19"
    tensorboard_cb = tf.keras.callbacks.TensorBoard(log_dir=log_dir_5,__
     ⇔histogram_freq=1)
    checkpoint_cb = tf.keras.callbacks.ModelCheckpoint("VGG19", save_best_only=True)
    early_stopping_cb = tf.keras.callbacks.EarlyStopping(
       monitor = 'val_loss', patience = 5, restore_best_weights=True
[]: history_3 = model_3.fit(aug_ds, validation_data = valid_ds, epochs = 20,__
     →callbacks=[tensorboard_cb, checkpoint_cb, early_stopping_cb])
   Epoch 1/20
   79/79 [============ ] - 32s 359ms/step - loss: 0.6214 -
   accuracy: 0.7301 - precision: 0.7987 - recall: 0.6423 - val_loss: 0.3240 -
   val_accuracy: 0.8947 - val_precision: 0.9023 - val_recall: 0.8836
   Epoch 2/20
   accuracy: 0.8975 - precision: 0.9126 - recall: 0.8828 - val loss: 0.2382 -
   val_accuracy: 0.9346 - val_precision: 0.9403 - val_recall: 0.9298
   Epoch 3/20
   accuracy: 0.9151 - precision: 0.9236 - recall: 0.9067 - val loss: 0.2651 -
   val_accuracy: 0.9203 - val_precision: 0.9216 - val_recall: 0.9187
   Epoch 4/20
   79/79 [============ ] - 23s 284ms/step - loss: 0.1768 -
   accuracy: 0.9406 - precision: 0.9447 - recall: 0.9326 - val_loss: 0.3444 -
   val_accuracy: 0.9075 - val_precision: 0.9103 - val_recall: 0.9059
   Epoch 5/20
   accuracy: 0.9589 - precision: 0.9607 - recall: 0.9549 - val_loss: 0.2285 -
```

```
val_accuracy: 0.9490 - val_precision: 0.9503 - val_recall: 0.9458
Epoch 6/20
accuracy: 0.9522 - precision: 0.9558 - recall: 0.9478 - val_loss: 0.3582 -
val_accuracy: 0.9107 - val_precision: 0.9148 - val_recall: 0.9075
Epoch 7/20
               79/79 [======
accuracy: 0.9729 - precision: 0.9740 - recall: 0.9709 - val_loss: 0.1894 -
val_accuracy: 0.9649 - val_precision: 0.9648 - val_recall: 0.9617
Epoch 8/20
accuracy: 0.9191 - precision: 0.9266 - recall: 0.9107 - val_loss: 0.2869 -
val_accuracy: 0.9091 - val_precision: 0.9193 - val_recall: 0.8900
Epoch 9/20
79/79 [=========== ] - 23s 284ms/step - loss: 0.1423 -
accuracy: 0.9549 - precision: 0.9594 - recall: 0.9506 - val loss: 0.2395 -
val_accuracy: 0.9537 - val_precision: 0.9535 - val_recall: 0.9490
Epoch 10/20
accuracy: 0.9741 - precision: 0.9752 - recall: 0.9737 - val_loss: 0.2315 -
val_accuracy: 0.9681 - val_precision: 0.9681 - val_recall: 0.9681
Epoch 11/20
79/79 [============== ] - 23s 280ms/step - loss: 0.0409 -
accuracy: 0.9856 - precision: 0.9860 - recall: 0.9844 - val_loss: 0.2553 -
val_accuracy: 0.9490 - val_precision: 0.9503 - val_recall: 0.9458
Epoch 12/20
accuracy: 0.9693 - precision: 0.9708 - recall: 0.9669 - val loss: 0.2832 -
val_accuracy: 0.9282 - val_precision: 0.9327 - val_recall: 0.9282
```

8.1 Evaluating VGG-19

[]: plot_acc_loss(history_3, n_epochs = 12)



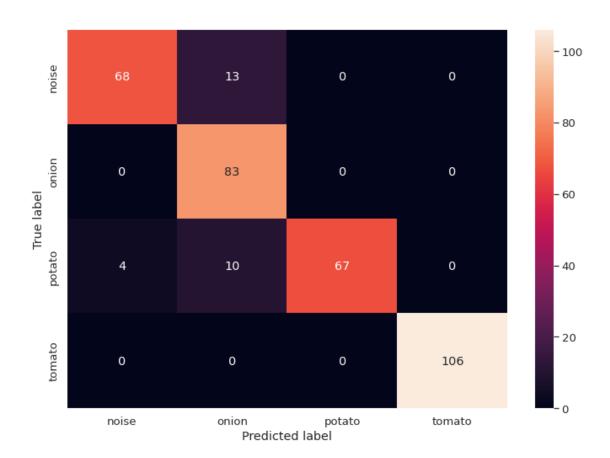
```
[]: classwise_accuracy(noise_path, 'noise', model_3)
  classwise_accuracy(onion_path, 'onion', model_3)
  classwise_accuracy(potato_path, 'potato', model_3)
  classwise_accuracy(tomato_path, 'tomato', model_3)
```

Accuracy for class noise is 83.95% consisting of 81 images Accuracy for class onion is 100.0% consisting of 83 images Accuracy for class potato is 82.72% consisting of 81 images Accuracy for class tomato is 100.0% consisting of 106 images

```
[]: l1 = []
l2 = []
l3 = []
l4 = []

conf_mat(noise_path, l1, model_3)
conf_mat(onion_path, l2, model_3)
conf_mat(potato_path, l3, model_3)
conf_mat(tomato_path, l4, model_3)

ax = sns.heatmap([l1, l2, l3, l4], xticklabels=class_names,
yticklabels=class_names, annot=True, fmt='g')
ax.set(xlabel='Predicted label', ylabel='True label')
plt.show()
```



```
[]: result = model_3.evaluate(test_ds)
dict(zip(model_3.metrics_names, result))
```

9 ResNet Model

ResNet performance on ImageNet Dataset, let's find out how it performs on our Data!

							Time
	Size	Top-1	Top-5			Time(ms)	(ms) on
Model	(MB)	Acc	Acc	Parameters	Depth	on CPU	GPU
ResNet50	98	74.9%	92.1%	25.6M	107	58.2	4.6

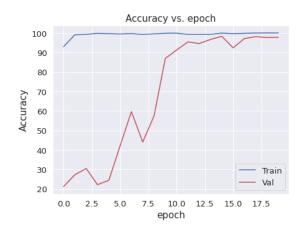
```
[]: # load base model
    Downloading data from https://storage.googleapis.com/tensorflow/keras-
   applications/resnet/resnet50_weights_tf_dim_ordering_tf_kernels_notop.h5
   94781440/94765736 [============ ] - Os Ous/step
[]: # append classification layer
    model_1 = base_model_1.output
    model_1 = tf.keras.Sequential([
              #Normalizing 0-255 into 0 to 1
              tf.keras.layers.Rescaling(1./255),
              tf.keras.layers.InputLayer(input_shape=[image_size[0],__
     →image_size[1], 3]),
              base_model_1,
              tf.keras.layers.GlobalAveragePooling2D(),
              tf.keras.layers.Dropout(rate = 0.1),
              tf.keras.layers.Dense(4, activation = 'softmax')
          ])
[]: model_1.compile(optimizer = tf.keras.optimizers.Adam(learning rate = 1e-4),
                loss = tf.keras.losses.CategoricalCrossentropy(),
                metrics = ['accuracy', 'Precision', 'Recall'])
[]: log_dir_3 = "logs/ResNet"
    tensorboard_cb = tf.keras.callbacks.TensorBoard(log_dir=log_dir_3,_
     →histogram_freq=1)
    ⇔save_best_only=True)
    early_stopping_cb = tf.keras.callbacks.EarlyStopping(
       monitor = 'val_loss', patience = 5, restore_best_weights=True
[]: history_1 = model_1.fit(aug_ds, validation_data = valid_ds, epochs = 20,__
     callbacks=[tensorboard_cb, checkpoint_cb, early_stopping_cb])
   Epoch 1/20
   79/79 [============= ] - 29s 272ms/step - loss: 0.1879 -
   accuracy: 0.9294 - precision: 0.9489 - recall: 0.9179 - val_loss: 5.9403 -
   val_accuracy: 0.2121 - val_precision: 0.2121 - val_recall: 0.2121
   Epoch 2/20
```

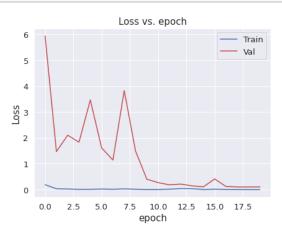
```
accuracy: 0.9908 - precision: 0.9916 - recall: 0.9908 - val_loss: 1.4681 -
val_accuracy: 0.2727 - val_precision: 0.3050 - val_recall: 0.0973
accuracy: 0.9924 - precision: 0.9924 - recall: 0.9916 - val_loss: 2.1005 -
val accuracy: 0.3046 - val precision: 0.2581 - val recall: 0.1770
Epoch 4/20
accuracy: 0.9980 - precision: 0.9980 - recall: 0.9980 - val_loss: 1.8315 -
val_accuracy: 0.2217 - val_precision: 0.1608 - val_recall: 0.0797
accuracy: 0.9964 - precision: 0.9964 - recall: 0.9964 - val loss: 3.4646 -
val_accuracy: 0.2440 - val_precision: 0.2330 - val_recall: 0.2185
Epoch 6/20
accuracy: 0.9944 - precision: 0.9948 - recall: 0.9940 - val loss: 1.6084 -
val_accuracy: 0.4211 - val_precision: 0.5155 - val_recall: 0.3716
Epoch 7/20
accuracy: 0.9968 - precision: 0.9968 - recall: 0.9968 - val_loss: 1.1407 -
val_accuracy: 0.5965 - val_precision: 0.6479 - val_recall: 0.5311
Epoch 8/20
accuracy: 0.9920 - precision: 0.9920 - recall: 0.9908 - val_loss: 3.8274 -
val_accuracy: 0.4402 - val_precision: 0.4465 - val_recall: 0.4322
Epoch 9/20
accuracy: 0.9952 - precision: 0.9960 - recall: 0.9948 - val loss: 1.4886 -
val_accuracy: 0.5742 - val_precision: 0.5850 - val_recall: 0.5486
Epoch 10/20
accuracy: 0.9984 - precision: 0.9984 - recall: 0.9984 - val_loss: 0.4008 -
val accuracy: 0.8692 - val precision: 0.8820 - val recall: 0.8581
Epoch 11/20
accuracy: 0.9988 - precision: 0.9988 - recall: 0.9988 - val_loss: 0.2670 -
val_accuracy: 0.9123 - val_precision: 0.9191 - val_recall: 0.9059
Epoch 12/20
accuracy: 0.9924 - precision: 0.9924 - recall: 0.9924 - val_loss: 0.1835 -
val_accuracy: 0.9537 - val_precision: 0.9549 - val_recall: 0.9458
Epoch 13/20
79/79 [=========== - 19s 232ms/step - loss: 0.0354 -
accuracy: 0.9924 - precision: 0.9924 - recall: 0.9920 - val loss: 0.2115 -
val_accuracy: 0.9458 - val_precision: 0.9487 - val_recall: 0.9442
Epoch 14/20
```

```
accuracy: 0.9924 - precision: 0.9928 - recall: 0.9920 - val_loss: 0.1435 -
val_accuracy: 0.9665 - val_precision: 0.9696 - val_recall: 0.9665
Epoch 15/20
accuracy: 0.9992 - precision: 0.9992 - recall: 0.9988 - val_loss: 0.1028 -
val accuracy: 0.9825 - val precision: 0.9825 - val recall: 0.9825
Epoch 16/20
accuracy: 0.9964 - precision: 0.9964 - recall: 0.9964 - val_loss: 0.4096 -
val_accuracy: 0.9234 - val_precision: 0.9263 - val_recall: 0.9219
Epoch 17/20
accuracy: 0.9980 - precision: 0.9984 - recall: 0.9980 - val loss: 0.1190 -
val_accuracy: 0.9713 - val_precision: 0.9728 - val_recall: 0.9713
Epoch 18/20
accuracy: 0.9996 - precision: 0.9996 - recall: 0.9996 - val loss: 0.0996 -
val_accuracy: 0.9809 - val_precision: 0.9824 - val_recall: 0.9809
Epoch 19/20
accuracy: 1.0000 - precision: 1.0000 - recall: 1.0000 - val_loss: 0.0997 -
val_accuracy: 0.9761 - val_precision: 0.9761 - val_recall: 0.9761
Epoch 20/20
accuracy: 1.0000 - precision: 1.0000 - recall: 1.0000 - val_loss: 0.1026 -
val_accuracy: 0.9777 - val_precision: 0.9777 - val_recall: 0.9777
```

9.1 Evaluating ResNet

[]: plot_acc_loss(history_1, n_epochs = 20)

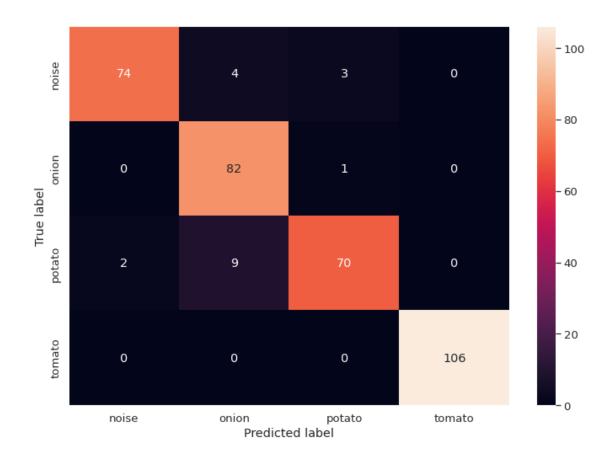




```
[]: classwise_accuracy(noise_path, 'noise', model_1)
    classwise_accuracy(onion_path, 'onion', model_1)
     classwise_accuracy(potato_path, 'potato', model_1)
     classwise_accuracy(tomato_path, 'tomato', model_1)
    Accuracy for class noise is 91.36% consisting of 81 images
    Accuracy for class onion is 98.8% consisting of 83 images
    Accuracy for class potato is 86.42% consisting of 81 images
    Accuracy for class tomato is 100.0% consisting of 106 images
[]: 11 = []
    12 = []
     13 = \Pi
     14 = []
     conf_mat(noise_path, 11, model_1)
     conf_mat(onion_path, 12, model_1)
     conf_mat(potato_path, 13, model_1)
     conf_mat(tomato_path, 14, model_1)
     ax = sns.heatmap([11, 12, 13, 14], xticklabels=class_names,_
```

→yticklabels=class_names, annot=True, fmt='g')
ax.set(xlabel='Predicted label', ylabel='True label')

plt.show()



We achieved a test accuracy of 94% on our finetuned ResNet Model, let's finetune a smaller sized model to deploy on our Mobile App!

10 MobileNet Model

MobileNet performance on ImageNet Dataset, let's find out how it performs on our Data!

Model	Size (MB)	Top-1 Acc	Top-5 Acc	Parameters	Depth	Time(ms) on CPU	Time (ms) on GPU
MobileNet	16	70.4%	89.5%	4.3M	55	22.6	3.4

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

```
[]: model_2.compile(optimizer = tf.keras.optimizers.Adam(learning_rate = 1e-4), loss = tf.keras.losses.CategoricalCrossentropy(),
```

```
[]: history_2 = model_2.fit(aug_ds, validation_data = valid_ds, epochs = 20,__
    Graduation == (tensorboard_cb, checkpoint_cb, early_stopping_cb])
   Epoch 1/20
   accuracy: 0.8995 - precision: 0.9226 - recall: 0.8792 - val_loss: 0.1627 -
   val_accuracy: 0.9410 - val_precision: 0.9467 - val_recall: 0.9346
   Epoch 2/20
   accuracy: 0.9900 - precision: 0.9908 - recall: 0.9896 - val_loss: 0.1013 -
   val_accuracy: 0.9617 - val_precision: 0.9632 - val_recall: 0.9601
   Epoch 3/20
   accuracy: 0.9964 - precision: 0.9964 - recall: 0.9952 - val_loss: 0.0896 -
   val_accuracy: 0.9745 - val_precision: 0.9745 - val_recall: 0.9745
   Epoch 4/20
   accuracy: 0.9964 - precision: 0.9964 - recall: 0.9952 - val_loss: 0.0725 -
   val_accuracy: 0.9809 - val_precision: 0.9809 - val_recall: 0.9809
   Epoch 5/20
   accuracy: 0.9992 - precision: 0.9992 - recall: 0.9992 - val_loss: 0.0673 -
   val_accuracy: 0.9793 - val_precision: 0.9808 - val_recall: 0.9793
   Epoch 6/20
   79/79 [=========== ] - 16s 199ms/step - loss: 0.0068 -
   accuracy: 0.9984 - precision: 0.9984 - recall: 0.9984 - val_loss: 0.0758 -
   val_accuracy: 0.9777 - val_precision: 0.9776 - val_recall: 0.9761
   Epoch 7/20
   79/79 [========== ] - 16s 196ms/step - loss: 0.0044 -
   accuracy: 0.9996 - precision: 0.9996 - recall: 0.9996 - val_loss: 0.0672 -
   val_accuracy: 0.9809 - val_precision: 0.9809 - val_recall: 0.9809
   Epoch 8/20
   79/79 [=========== - 17s 212ms/step - loss: 0.0018 -
   accuracy: 1.0000 - precision: 1.0000 - recall: 1.0000 - val loss: 0.0629 -
   val_accuracy: 0.9809 - val_precision: 0.9824 - val_recall: 0.9809
   Epoch 9/20
   accuracy: 1.0000 - precision: 1.0000 - recall: 1.0000 - val_loss: 0.0666 -
   val_accuracy: 0.9856 - val_precision: 0.9856 - val_recall: 0.9856
   Epoch 10/20
   accuracy: 1.0000 - precision: 1.0000 - recall: 1.0000 - val_loss: 0.0641 -
   val_accuracy: 0.9856 - val_precision: 0.9856 - val_recall: 0.9841
   Epoch 11/20
```

metrics = ['accuracy', 'Precision', 'Recall'])

```
accuracy: 1.0000 - precision: 1.0000 - recall: 1.0000 - val_loss: 0.0612 -
val_accuracy: 0.9841 - val_precision: 0.9841 - val_recall: 0.9841
Epoch 12/20
accuracy: 0.9996 - precision: 0.9996 - recall: 0.9996 - val loss: 0.0804 -
val_accuracy: 0.9761 - val_precision: 0.9761 - val_recall: 0.9761
Epoch 13/20
accuracy: 1.0000 - precision: 1.0000 - recall: 1.0000 - val loss: 0.0942 -
val_accuracy: 0.9745 - val_precision: 0.9745 - val_recall: 0.9745
Epoch 14/20
79/79 [=========== ] - 16s 191ms/step - loss: 0.0014 -
accuracy: 1.0000 - precision: 1.0000 - recall: 1.0000 - val_loss: 0.0644 -
val_accuracy: 0.9888 - val_precision: 0.9888 - val_recall: 0.9888
Epoch 15/20
accuracy: 0.9980 - precision: 0.9980 - recall: 0.9980 - val_loss: 0.0867 -
val_accuracy: 0.9713 - val_precision: 0.9744 - val_recall: 0.9713
Epoch 16/20
accuracy: 1.0000 - precision: 1.0000 - recall: 1.0000 - val_loss: 0.0827 -
val_accuracy: 0.9761 - val_precision: 0.9761 - val_recall: 0.9761
```

[]: model_2.summary()

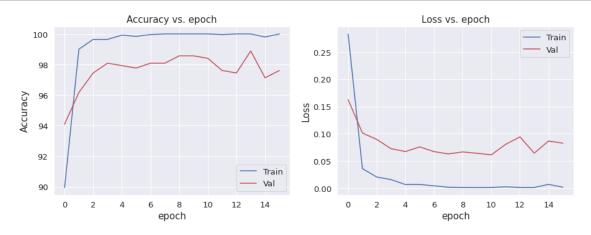
Model: "sequential_6"

Layer (type)	Output Shape	Param #
rescaling_5 (Rescaling)	(None, 256, 256, 3)	0
<pre>input_9 (InputLayer)</pre>	multiple	0
<pre>mobilenet_1.00_224 (Functional)</pre>	(None, 8, 8, 1024)	3228864
<pre>global_average_pooling2d_5 (GlobalAveragePooling2D)</pre>	(None, 1024)	0
dropout_4 (Dropout)	(None, 1024)	0
dense_5 (Dense)	(None, 4)	4100

Total params: 3,232,964 Trainable params: 3,211,076 Non-trainable params: 21,888

10.1 Evaluating MobileNet

[]: plot_acc_loss(history_2, n_epochs = 16)



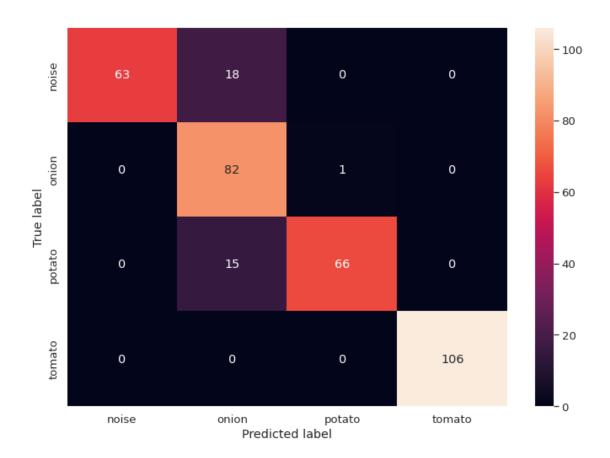
```
[]: classwise_accuracy(noise_path, 'noise', model_2)
   classwise_accuracy(onion_path, 'onion', model_2)
   classwise_accuracy(potato_path, 'potato', model_2)
   classwise_accuracy(tomato_path, 'tomato', model_2)
```

Accuracy for class noise is 77.78% consisting of 81 images Accuracy for class onion is 98.8% consisting of 83 images Accuracy for class potato is 81.48% consisting of 81 images Accuracy for class tomato is 100.0% consisting of 106 images

```
[]: 11 = []
12 = []
13 = []
14 = []

conf_mat(noise_path, 11, model_2)
conf_mat(onion_path, 12, model_2)
conf_mat(potato_path, 13, model_2)
conf_mat(tomato_path, 14, model_2)

ax = sns.heatmap([11, 12, 13, 14], xticklabels=class_names, useticklabels=class_names, annot=True, fmt='g')
ax.set(xlabel='Predicted label', ylabel='True label')
plt.show()
```



11 Models Comparison

##Summary of Trained models:

Model	Test Acc	Train Acc
Custom CNN	76%	81%
CNN Revamp	84%	89%
VGG19	91%	98%
ResNet50	94%	99%

Model	Test Acc	Train Acc
MobileNet	90%	100%

- After training all of our Models, we found VGG19 to be the most eccurate model on our Dataset.
- Let's visualize all of our models via tensorboard from the logs we created during training
- We observed that VGG-19 gave us the highest test accuracy and our baseline CNN gave us the lowest accuracy

```
[]: %load_ext tensorboard %tensorboard --logdir /content/logs
```

<IPython.core.display.Javascript object>

12 Testing our best model (ResNet)

ResNet achieved the highest accuracy of 94% among all the models we trained

Let's test our Finetuned ResNet to predict on some random unseen data to visualize how accurate it is!

[]: model_1.summary()

Model: "sequential_5"

Layer (type)	Output Shape	Param #
rescaling_4 (Rescaling)	(None, 256, 256, 3)	0
<pre>input_7 (InputLayer)</pre>	multiple	0
resnet50 (Functional)	(None, 8, 8, 2048)	23587712
<pre>global_average_pooling2d_4 (GlobalAveragePooling2D)</pre>	(None, 2048)	0
dropout_3 (Dropout)	(None, 2048)	0
dense_4 (Dense)	(None, 4)	8196

Total params: 23,595,908 Trainable params: 23,542,788 Non-trainable params: 53,120

```
[]: grid_test_model(model_1)
```

prediction: noise

100.0 % noise
0.0 % onion
0.0 % potato
0.0 % tomato

prediction: onion

0.0 % noise
100.0 % onion
0.0 % potato
0.0 % tomato



prediction: onion

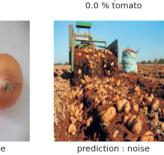


100.0 % noise

prediction: onion

0.0 % noise 100.0 % onion

0.0 % potato



prediction: onion

45.0 % noise 48.0 % onion

7.0 % potato







100.0 % noise

0.0 % onion

We see that our Model is **nearly 100\%** sure of the correct class in every image we plotted above, indicating a very good choice for our classification task.

'accuracy': 0.94017094373703, 'precision': 0.939828097820282, 'recall': 0.934472918510437}