**Computer Vision**

Link to Kaggle Kernel-https://www.kaggle.com/nitishputrevu/computer-vision-using-resnet50-on-stl10-binary-set

Dataset-

Task1-Train an image classification model

1)Imported images and reshaped them to (-1, 96, 96, 3)

2)Preprocessed image input

3)Used the ResNet50 model with pre-trained weights

4)Model-

classification\_output = tf.keras.layers.GlobalAveragePooling2D()(resnet\_feature\_extractor)

classification\_output = tf.keras.layers.Flatten()(classification\_output)

classification\_output = tf.keras.layers.Dense(1024, activation="relu")(classification\_output)

classification\_output = tf.keras.layers.Dense(512, activation="relu")(classification\_output)

classification\_output = tf.keras.layers.Dense(11, activation="softmax", name="classification")(classification\_output)

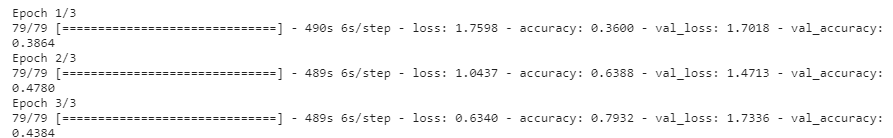
model = tf.keras.Model(inputs=inputs, outputs = classification\_output)

model.compile(optimizer='SGD',

loss='sparse\_categorical\_crossentropy',

metrics = ['accuracy'])

**5)**Observations-

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