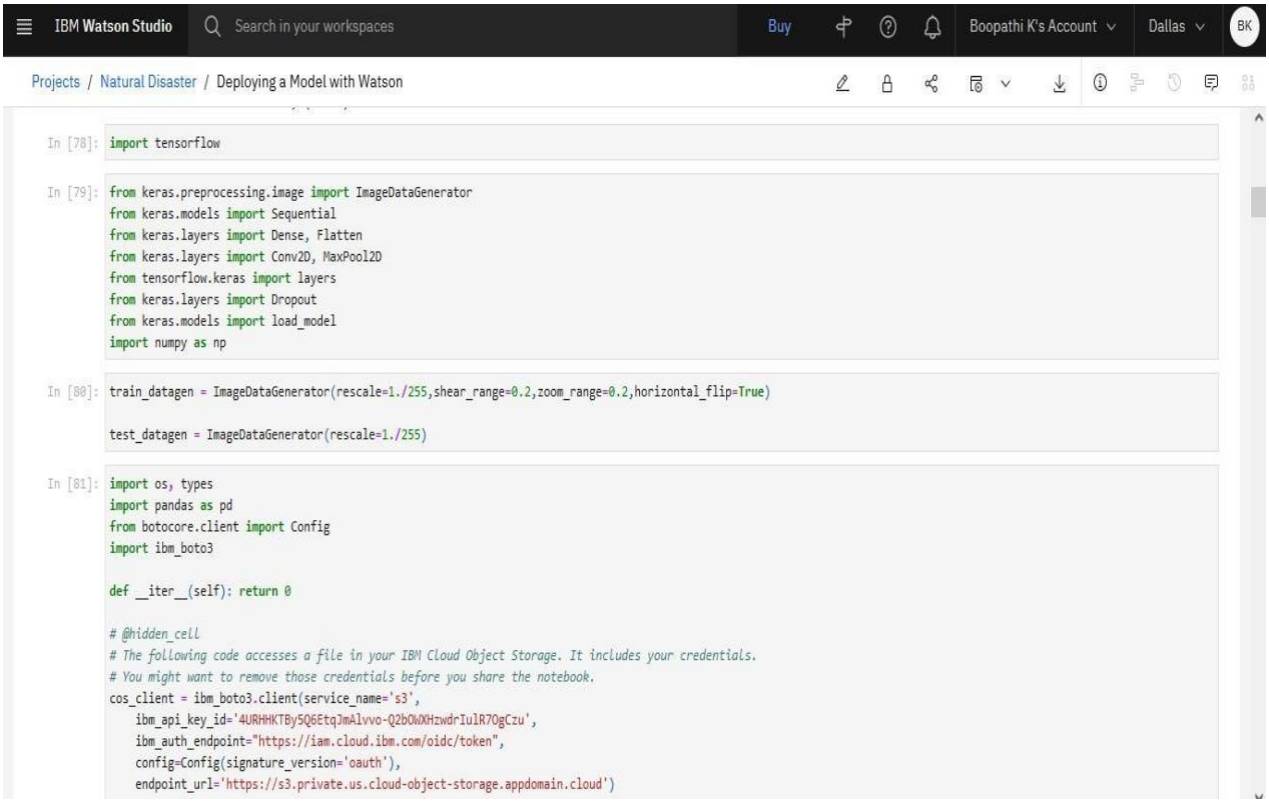
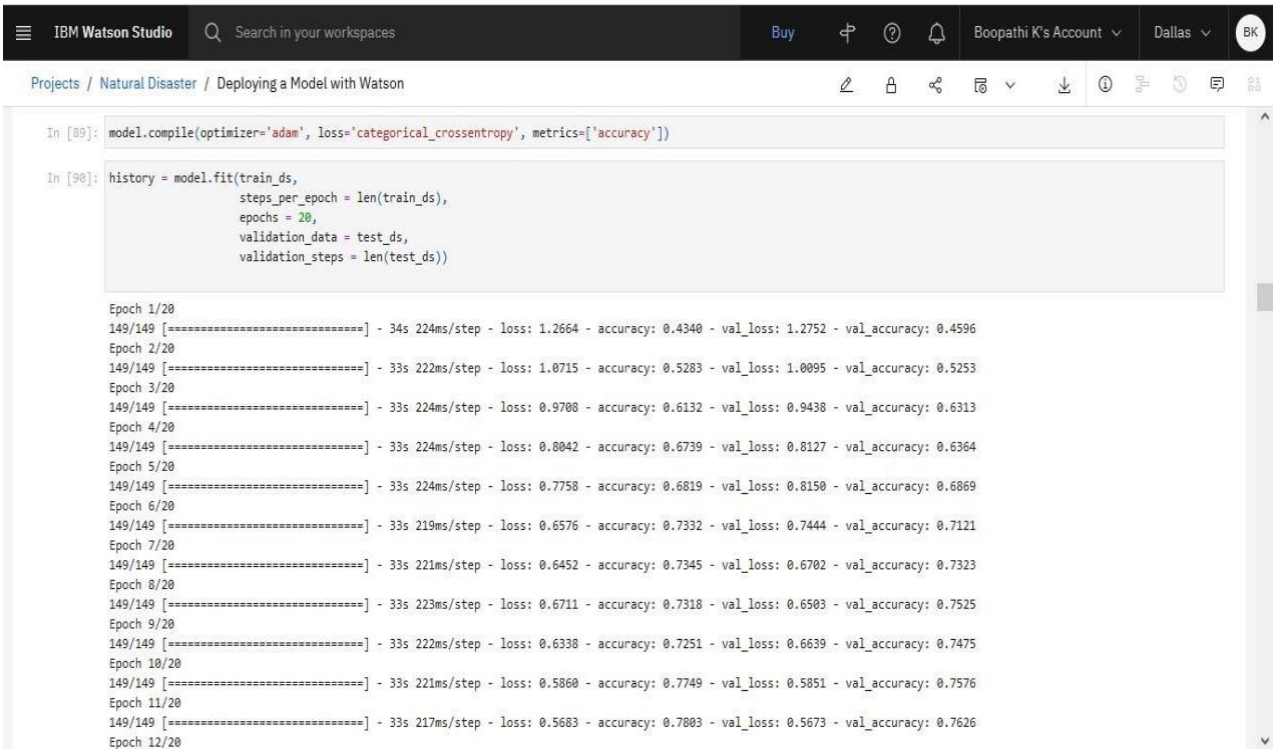
TRAIN THE MODEL ON IBM

Date	15 NOVEMBER 2022
Team ID	PNT2022TMID37914
Project Name	Natural Disasters Intensity Analysis and Classification using Artificial Intelligence
Maximum Marks	8 Marks

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In [89]:
model.compile(optimizer='adam', loss='categorical_crossentropy', metrics=['accuracy'])
In [90]:
history = model.fit(train_ds,
steps_per_epoch = len(train_ds),
epochs = 20,
validation_data = test_ds,
validation_steps = len(test_ds))
Epoch 1/20
149/149 [==========] - 34s 224ms/step - loss: 1.2664 - accuracy: 0.4340 - val_loss: 1.2752 - val_accuracy: 0.4596
Epoch 2/20
149/149 [==========] - 33s 222ms/step - loss: 1.0715 - accuracy: 0.5283 - val_loss: 1.0095 - val_accuracy: 0.5253
Epoch 3/20
149/149 [==========] - 33s 224ms/step - loss: 0.9708 - accuracy: 0.6132 - val_loss: 0.9438 - val_accuracy: 0.6313
Epoch 4/20
149/149 [==========] - 33s 224ms/step - loss: 0.8042 - accuracy: 0.6739 - val_loss: 0.8127 - val_accuracy: 0.6364
Epoch 5/20
149/149 [==========] - 33s 224ms/step - loss: 0.7758 - accuracy: 0.6819 - val_loss: 0.8150 - val_accuracy: 0.6869
Epoch 6/20
149/149 [==========] - 33s 219ms/step - loss: 0.6576 - accuracy: 0.7332 - val_loss: 0.7444 - val_accuracy: 0.7121
Epoch 7/20
149/149 [==========] - 33s 221ms/step - loss: 0.6452 - accuracy: 0.7345 - val_loss: 0.6702 - val_accuracy: 0.7323
Epoch 8/20
149/149 [==========] - 33s 223ms/step - loss: 0.6711 - accuracy: 0.7318 - val_loss: 0.6503 - val_accuracy: 0.7525
Epoch 9/20
149/149 [==========] - 33s 222ms/step - loss: 0.6338 - accuracy: 0.7251 - val_loss: 0.6639 - val_accuracy: 0.7475
Epoch 10/20
149/149 [==========] - 33s 221ms/step - loss: 0.5860 - accuracy: 0.7749 - val_loss: 0.5851 - val_accuracy: 0.7576
Epoch 11/20
149/149 [==========] - 33s 217ms/step - loss: 0.5683 - accuracy: 0.7803 - val_loss: 0.5673 - val_accuracy: 0.7626
Epoch 12/20