Training Print of Model 30\_70\_100 with learn rate 0.00001

| Epoch 1/500  83/83 [==============================] - 301s 4s/step - loss: 1.6123 - categorical\_accuracy: 0.2199 - val\_loss: 1.5560 - val\_categorical\_accuracy: 0.3542 - lr: 1.0000e-05  Epoch 2/500  83/83 [==============================] - 10s 115ms/step - loss: 1.5756 - categorical\_accuracy: 0.2560 - val\_loss: 1.5317 - val\_categorical\_accuracy: 0.3472 - lr: 1.0000e-05  Epoch 3/500  83/83 [==============================] - 10s 115ms/step - loss: 1.5415 - categorical\_accuracy: 0.3035 - val\_loss: 1.5143 - val\_categorical\_accuracy: 0.3542 - lr: 1.0000e-05  Epoch 4/500  83/83 [==============================] - 10s 115ms/step - loss: 1.5241 - categorical\_accuracy: 0.3005 - val\_loss: 1.4971 - val\_categorical\_accuracy: 0.3681 - lr: 1.0000e-05  Epoch 5/500  83/83 [==============================] - 10s 115ms/step - loss: 1.4925 - categorical\_accuracy: 0.3441 - val\_loss: 1.4761 - val\_categorical\_accuracy: 0.3750 - lr: 1.0000e-05  Epoch 6/500  83/83 [==============================] - 10s 114ms/step - loss: 1.4713 - categorical\_accuracy: 0.3547 - val\_loss: 1.4560 - val\_categorical\_accuracy: 0.3958 - lr: 1.0000e-05  Epoch 7/500  83/83 [==============================] - 10s 115ms/step - loss: 1.4479 - categorical\_accuracy: 0.3870 - val\_loss: 1.4294 - val\_categorical\_accuracy: 0.4167 - lr: 1.0000e-05  Epoch 8/500  83/83 [==============================] - 10s 115ms/step - loss: 1.4247 - categorical\_accuracy: 0.3938 - val\_loss: 1.4060 - val\_categorical\_accuracy: 0.4306 - lr: 1.0000e-05  Epoch 9/500  83/83 [==============================] - 10s 116ms/step - loss: 1.3993 - categorical\_accuracy: 0.4239 - val\_loss: 1.3836 - val\_categorical\_accuracy: 0.4444 - lr: 1.0000e-05  Epoch 10/500  82/83 [============================>.] - ETA: 0s - loss: 1.3532 - categorical\_accuracy: 0.4489INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0010.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 181ms/step - loss: 1.3527 - categorical\_accuracy: 0.4480 - val\_loss: 1.3517 - val\_categorical\_accuracy: 0.4653 - lr: 1.0000e-05  Epoch 11/500  83/83 [==============================] - 10s 118ms/step - loss: 1.3308 - categorical\_accuracy: 0.4646 - val\_loss: 1.3210 - val\_categorical\_accuracy: 0.4931 - lr: 1.0000e-05  Epoch 12/500  83/83 [==============================] - 10s 116ms/step - loss: 1.2751 - categorical\_accuracy: 0.5000 - val\_loss: 1.2838 - val\_categorical\_accuracy: 0.5000 - lr: 1.0000e-05  Epoch 13/500  83/83 [==============================] - 10s 115ms/step - loss: 1.2247 - categorical\_accuracy: 0.5279 - val\_loss: 1.2489 - val\_categorical\_accuracy: 0.5139 - lr: 1.0000e-05  Epoch 14/500  83/83 [==============================] - 10s 115ms/step - loss: 1.1843 - categorical\_accuracy: 0.5309 - val\_loss: 1.1937 - val\_categorical\_accuracy: 0.5486 - lr: 1.0000e-05  Epoch 15/500  83/83 [==============================] - 10s 115ms/step - loss: 1.1357 - categorical\_accuracy: 0.5715 - val\_loss: 1.1556 - val\_categorical\_accuracy: 0.5417 - lr: 1.0000e-05  Epoch 16/500  83/83 [==============================] - 10s 115ms/step - loss: 1.0423 - categorical\_accuracy: 0.6227 - val\_loss: 1.1306 - val\_categorical\_accuracy: 0.5417 - lr: 1.0000e-05  Epoch 17/500  83/83 [==============================] - 10s 115ms/step - loss: 0.9912 - categorical\_accuracy: 0.6438 - val\_loss: 1.1058 - val\_categorical\_accuracy: 0.5903 - lr: 1.0000e-05  Epoch 18/500  83/83 [==============================] - 10s 115ms/step - loss: 0.9666 - categorical\_accuracy: 0.6378 - val\_loss: 1.0780 - val\_categorical\_accuracy: 0.6111 - lr: 1.0000e-05  Epoch 19/500  83/83 [==============================] - 10s 115ms/step - loss: 0.9098 - categorical\_accuracy: 0.6642 - val\_loss: 1.0432 - val\_categorical\_accuracy: 0.5972 - lr: 1.0000e-05  Epoch 20/500  82/83 [============================>.] - ETA: 0s - loss: 0.8681 - categorical\_accuracy: 0.6753INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0020.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0020.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 177ms/step - loss: 0.8669 - categorical\_accuracy: 0.6762 - val\_loss: 1.0505 - val\_categorical\_accuracy: 0.6319 - lr: 1.0000e-05  Epoch 21/500  83/83 [==============================] - 10s 117ms/step - loss: 0.8269 - categorical\_accuracy: 0.7154 - val\_loss: 0.9665 - val\_categorical\_accuracy: 0.6319 - lr: 1.0000e-05  Epoch 22/500  83/83 [==============================] - 10s 117ms/step - loss: 0.7704 - categorical\_accuracy: 0.7139 - val\_loss: 0.9654 - val\_categorical\_accuracy: 0.6944 - lr: 1.0000e-05  Epoch 23/500  83/83 [==============================] - 10s 117ms/step - loss: 0.7532 - categorical\_accuracy: 0.7289 - val\_loss: 0.9716 - val\_categorical\_accuracy: 0.6806 - lr: 1.0000e-05  Epoch 24/500  83/83 [==============================] - 10s 117ms/step - loss: 0.6842 - categorical\_accuracy: 0.7666 - val\_loss: 0.9581 - val\_categorical\_accuracy: 0.6736 - lr: 1.0000e-05  Epoch 25/500  83/83 [==============================] - 10s 116ms/step - loss: 0.6336 - categorical\_accuracy: 0.7877 - val\_loss: 0.9393 - val\_categorical\_accuracy: 0.6806 - lr: 1.0000e-05  Epoch 26/500  83/83 [==============================] - 10s 115ms/step - loss: 0.6173 - categorical\_accuracy: 0.7839 - val\_loss: 0.8788 - val\_categorical\_accuracy: 0.7153 - lr: 1.0000e-05  Epoch 27/500  83/83 [==============================] - 10s 116ms/step - loss: 0.5712 - categorical\_accuracy: 0.7922 - val\_loss: 0.9207 - val\_categorical\_accuracy: 0.7014 - lr: 1.0000e-05  Epoch 28/500  83/83 [==============================] - 10s 115ms/step - loss: 0.5422 - categorical\_accuracy: 0.8072 - val\_loss: 0.8544 - val\_categorical\_accuracy: 0.7083 - lr: 1.0000e-05  Epoch 29/500  83/83 [==============================] - 10s 115ms/step - loss: 0.5065 - categorical\_accuracy: 0.8238 - val\_loss: 0.8290 - val\_categorical\_accuracy: 0.7083 - lr: 1.0000e-05  Epoch 30/500  82/83 [============================>.] - ETA: 0s - loss: 0.4760 - categorical\_accuracy: 0.8331INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0030.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0030.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 14s 174ms/step - loss: 0.4731 - categorical\_accuracy: 0.8351 - val\_loss: 0.8566 - val\_categorical\_accuracy: 0.7431 - lr: 1.0000e-05  Epoch 31/500  83/83 [==============================] - 10s 118ms/step - loss: 0.4524 - categorical\_accuracy: 0.8464 - val\_loss: 0.8243 - val\_categorical\_accuracy: 0.7292 - lr: 1.0000e-05  Epoch 32/500  83/83 [==============================] - 10s 116ms/step - loss: 0.4249 - categorical\_accuracy: 0.8524 - val\_loss: 0.9200 - val\_categorical\_accuracy: 0.7431 - lr: 1.0000e-05  Epoch 33/500  83/83 [==============================] - 10s 117ms/step - loss: 0.4107 - categorical\_accuracy: 0.8539 - val\_loss: 0.8824 - val\_categorical\_accuracy: 0.7500 - lr: 1.0000e-05  Epoch 34/500  83/83 [==============================] - 10s 117ms/step - loss: 0.3766 - categorical\_accuracy: 0.8675 - val\_loss: 0.8611 - val\_categorical\_accuracy: 0.7569 - lr: 1.0000e-05  Epoch 35/500  83/83 [==============================] - 10s 116ms/step - loss: 0.3556 - categorical\_accuracy: 0.8773 - val\_loss: 0.8050 - val\_categorical\_accuracy: 0.7500 - lr: 1.0000e-05  Epoch 36/500  83/83 [==============================] - 10s 115ms/step - loss: 0.3176 - categorical\_accuracy: 0.8923 - val\_loss: 0.8811 - val\_categorical\_accuracy: 0.7708 - lr: 1.0000e-05  Epoch 37/500  83/83 [==============================] - 10s 116ms/step - loss: 0.3090 - categorical\_accuracy: 0.8976 - val\_loss: 0.7539 - val\_categorical\_accuracy: 0.8194 - lr: 1.0000e-05  Epoch 38/500  83/83 [==============================] - 10s 117ms/step - loss: 0.3093 - categorical\_accuracy: 0.8998 - val\_loss: 0.8193 - val\_categorical\_accuracy: 0.7847 - lr: 1.0000e-05  Epoch 39/500  83/83 [==============================] - 10s 116ms/step - loss: 0.2894 - categorical\_accuracy: 0.8998 - val\_loss: 0.7608 - val\_categorical\_accuracy: 0.8194 - lr: 1.0000e-05  Epoch 40/500  82/83 [============================>.] - ETA: 0s - loss: 0.2566 - categorical\_accuracy: 0.9184INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0040.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0040.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 180ms/step - loss: 0.2550 - categorical\_accuracy: 0.9194 - val\_loss: 0.8816 - val\_categorical\_accuracy: 0.7917 - lr: 1.0000e-05  Epoch 41/500  83/83 [==============================] - 10s 116ms/step - loss: 0.2546 - categorical\_accuracy: 0.9111 - val\_loss: 0.8812 - val\_categorical\_accuracy: 0.7708 - lr: 1.0000e-05  Epoch 42/500  83/83 [==============================] - 10s 119ms/step - loss: 0.2313 - categorical\_accuracy: 0.9217 - val\_loss: 0.8230 - val\_categorical\_accuracy: 0.7917 - lr: 1.0000e-05  Epoch 43/500  83/83 [==============================] - 10s 117ms/step - loss: 0.2453 - categorical\_accuracy: 0.9239 - val\_loss: 0.9225 - val\_categorical\_accuracy: 0.7847 - lr: 1.0000e-05  Epoch 44/500  83/83 [==============================] - 10s 116ms/step - loss: 0.2458 - categorical\_accuracy: 0.9149 - val\_loss: 0.8589 - val\_categorical\_accuracy: 0.7917 - lr: 1.0000e-05  Epoch 45/500  83/83 [==============================] - 10s 116ms/step - loss: 0.2053 - categorical\_accuracy: 0.9390 - val\_loss: 0.9076 - val\_categorical\_accuracy: 0.8194 - lr: 1.0000e-05  Epoch 46/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1976 - categorical\_accuracy: 0.9390 - val\_loss: 0.8327 - val\_categorical\_accuracy: 0.8264 - lr: 1.0000e-05  Epoch 47/500  83/83 [==============================] - ETA: 0s - loss: 0.1817 - categorical\_accuracy: 0.9360  Epoch 00047: ReduceLROnPlateau reducing learning rate to 9.999999747378752e-07.  83/83 [==============================] - 10s 115ms/step - loss: 0.1817 - categorical\_accuracy: 0.9360 - val\_loss: 0.9353 - val\_categorical\_accuracy: 0.7917 - lr: 1.0000e-05  Epoch 48/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1860 - categorical\_accuracy: 0.9450 - val\_loss: 0.8552 - val\_categorical\_accuracy: 0.8264 - lr: 1.0000e-06  Epoch 49/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1621 - categorical\_accuracy: 0.9503 - val\_loss: 0.8671 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-06  Epoch 50/500  82/83 [============================>.] - ETA: 0s - loss: 0.1815 - categorical\_accuracy: 0.9428INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0050.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0050.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 14s 174ms/step - loss: 0.1797 - categorical\_accuracy: 0.9435 - val\_loss: 0.8316 - val\_categorical\_accuracy: 0.8056 - lr: 1.0000e-06  Epoch 51/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1538 - categorical\_accuracy: 0.9488 - val\_loss: 0.8400 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-06  Epoch 52/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1530 - categorical\_accuracy: 0.9495 - val\_loss: 0.8454 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-06  Epoch 53/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1478 - categorical\_accuracy: 0.9526 - val\_loss: 0.8593 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-06  Epoch 54/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1395 - categorical\_accuracy: 0.9578 - val\_loss: 0.8499 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-06  Epoch 55/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1432 - categorical\_accuracy: 0.9548 - val\_loss: 0.8430 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-06  Epoch 56/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1333 - categorical\_accuracy: 0.9593 - val\_loss: 0.8500 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-06  Epoch 57/500  83/83 [==============================] - ETA: 0s - loss: 0.1487 - categorical\_accuracy: 0.9465  Epoch 00057: ReduceLROnPlateau reducing learning rate to 9.999999974752428e-08.  83/83 [==============================] - 10s 116ms/step - loss: 0.1487 - categorical\_accuracy: 0.9465 - val\_loss: 0.8856 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-06  Epoch 58/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1465 - categorical\_accuracy: 0.9495 - val\_loss: 0.8789 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-07  Epoch 59/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1462 - categorical\_accuracy: 0.9511 - val\_loss: 0.8746 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-07  Epoch 60/500  82/83 [============================>.] - ETA: 0s - loss: 0.1437 - categorical\_accuracy: 0.9573INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0060.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0060.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 178ms/step - loss: 0.1424 - categorical\_accuracy: 0.9578 - val\_loss: 0.8715 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-07  Epoch 61/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1479 - categorical\_accuracy: 0.9586 - val\_loss: 0.8679 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-07  Epoch 62/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1520 - categorical\_accuracy: 0.9488 - val\_loss: 0.8674 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-07  Epoch 63/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1368 - categorical\_accuracy: 0.9586 - val\_loss: 0.8670 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-07  Epoch 64/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1439 - categorical\_accuracy: 0.9541 - val\_loss: 0.8634 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-07  Epoch 65/500  83/83 [==============================] - 10s 114ms/step - loss: 0.1507 - categorical\_accuracy: 0.9541 - val\_loss: 0.8669 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-07  Epoch 66/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1427 - categorical\_accuracy: 0.9541 - val\_loss: 0.8649 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-07  Epoch 67/500  83/83 [==============================] - ETA: 0s - loss: 0.1388 - categorical\_accuracy: 0.9608  Epoch 00067: ReduceLROnPlateau reducing learning rate to 1.0000000116860975e-08.  83/83 [==============================] - 10s 115ms/step - loss: 0.1388 - categorical\_accuracy: 0.9608 - val\_loss: 0.8645 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-07  Epoch 68/500  83/83 [==============================] - 10s 114ms/step - loss: 0.1345 - categorical\_accuracy: 0.9556 - val\_loss: 0.8646 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-08  Epoch 69/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1437 - categorical\_accuracy: 0.9556 - val\_loss: 0.8645 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-08  Epoch 70/500  82/83 [============================>.] - ETA: 0s - loss: 0.1465 - categorical\_accuracy: 0.9520INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0070.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0070.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 175ms/step - loss: 0.1451 - categorical\_accuracy: 0.9526 - val\_loss: 0.8647 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-08  Epoch 71/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1450 - categorical\_accuracy: 0.9578 - val\_loss: 0.8647 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-08  Epoch 72/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1442 - categorical\_accuracy: 0.9533 - val\_loss: 0.8649 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-08  Epoch 73/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1341 - categorical\_accuracy: 0.9616 - val\_loss: 0.8646 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-08  Epoch 74/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1345 - categorical\_accuracy: 0.9526 - val\_loss: 0.8646 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-08  Epoch 75/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1439 - categorical\_accuracy: 0.9601 - val\_loss: 0.8647 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-08  Epoch 76/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1339 - categorical\_accuracy: 0.9563 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-08  Epoch 77/500  83/83 [==============================] - ETA: 0s - loss: 0.1529 - categorical\_accuracy: 0.9495  Epoch 00077: ReduceLROnPlateau reducing learning rate to 9.999999939225292e-10.  83/83 [==============================] - 10s 115ms/step - loss: 0.1529 - categorical\_accuracy: 0.9495 - val\_loss: 0.8645 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-08  Epoch 78/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1311 - categorical\_accuracy: 0.9623 - val\_loss: 0.8645 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-09  Epoch 79/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1490 - categorical\_accuracy: 0.9518 - val\_loss: 0.8645 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-09  Epoch 80/500  82/83 [============================>.] - ETA: 0s - loss: 0.1542 - categorical\_accuracy: 0.9489INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0080.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0080.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 14s 173ms/step - loss: 0.1527 - categorical\_accuracy: 0.9495 - val\_loss: 0.8645 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-09  Epoch 81/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1509 - categorical\_accuracy: 0.9488 - val\_loss: 0.8645 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-09  Epoch 82/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1288 - categorical\_accuracy: 0.9623 - val\_loss: 0.8645 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-09  Epoch 83/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1441 - categorical\_accuracy: 0.9563 - val\_loss: 0.8645 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-09  Epoch 84/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1373 - categorical\_accuracy: 0.9639 - val\_loss: 0.8645 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-09  Epoch 85/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1338 - categorical\_accuracy: 0.9601 - val\_loss: 0.8645 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-09  Epoch 86/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1372 - categorical\_accuracy: 0.9639 - val\_loss: 0.8645 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-09  Epoch 87/500  83/83 [==============================] - ETA: 0s - loss: 0.1274 - categorical\_accuracy: 0.9631  Epoch 00087: ReduceLROnPlateau reducing learning rate to 9.999999717180686e-11.  83/83 [==============================] - 10s 116ms/step - loss: 0.1274 - categorical\_accuracy: 0.9631 - val\_loss: 0.8645 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-09  Epoch 88/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1367 - categorical\_accuracy: 0.9548 - val\_loss: 0.8645 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-10  Epoch 89/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1410 - categorical\_accuracy: 0.9593 - val\_loss: 0.8645 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-10  Epoch 90/500  82/83 [============================>.] - ETA: 0s - loss: 0.1394 - categorical\_accuracy: 0.9566INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0090.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0090.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 177ms/step - loss: 0.1382 - categorical\_accuracy: 0.9571 - val\_loss: 0.8645 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-10  Epoch 91/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1437 - categorical\_accuracy: 0.9563 - val\_loss: 0.8645 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-10  Epoch 92/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1402 - categorical\_accuracy: 0.9548 - val\_loss: 0.8645 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-10  Epoch 93/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1314 - categorical\_accuracy: 0.9601 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-10  Epoch 94/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1482 - categorical\_accuracy: 0.9548 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-10  Epoch 95/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1306 - categorical\_accuracy: 0.9646 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-10  Epoch 96/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1382 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-10  Epoch 97/500  83/83 [==============================] - ETA: 0s - loss: 0.1357 - categorical\_accuracy: 0.9616  Epoch 00097: ReduceLROnPlateau reducing learning rate to 9.99999943962493e-12.  83/83 [==============================] - 10s 115ms/step - loss: 0.1357 - categorical\_accuracy: 0.9616 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-10  Epoch 98/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1378 - categorical\_accuracy: 0.9548 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-11  Epoch 99/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1482 - categorical\_accuracy: 0.9533 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-11  Epoch 100/500  82/83 [============================>.] - ETA: 0s - loss: 0.1587 - categorical\_accuracy: 0.9558INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0100.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0100.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 14s 170ms/step - loss: 0.1573 - categorical\_accuracy: 0.9563 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-11  Epoch 101/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1442 - categorical\_accuracy: 0.9563 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-11  Epoch 102/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1372 - categorical\_accuracy: 0.9533 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-11  Epoch 103/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1443 - categorical\_accuracy: 0.9556 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-11  Epoch 104/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1580 - categorical\_accuracy: 0.9518 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-11  Epoch 105/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1223 - categorical\_accuracy: 0.9646 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-11  Epoch 106/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1476 - categorical\_accuracy: 0.9518 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-11  Epoch 107/500  83/83 [==============================] - ETA: 0s - loss: 0.1367 - categorical\_accuracy: 0.9586  Epoch 00107: ReduceLROnPlateau reducing learning rate to 9.999999092680235e-13.  83/83 [==============================] - 10s 115ms/step - loss: 0.1367 - categorical\_accuracy: 0.9586 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-11  Epoch 108/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1509 - categorical\_accuracy: 0.9495 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-12  Epoch 109/500  83/83 [==============================] - 9s 114ms/step - loss: 0.1392 - categorical\_accuracy: 0.9548 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-12  Epoch 110/500  82/83 [============================>.] - ETA: 0s - loss: 0.1384 - categorical\_accuracy: 0.9596INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0110.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0110.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 177ms/step - loss: 0.1547 - categorical\_accuracy: 0.9473 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-14  Epoch 131/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1450 - categorical\_accuracy: 0.9563 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-14  Epoch 132/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1597 - categorical\_accuracy: 0.9450 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-14  Epoch 133/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1515 - categorical\_accuracy: 0.9428 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-14  Epoch 134/500  83/83 [==============================] - 10s 114ms/step - loss: 0.1445 - categorical\_accuracy: 0.9526 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-14  Epoch 135/500  83/83 [==============================] - 10s 114ms/step - loss: 0.1259 - categorical\_accuracy: 0.9639 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-14  Epoch 136/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1451 - categorical\_accuracy: 0.9541 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-14  Epoch 137/500  83/83 [==============================] - ETA: 0s - loss: 0.1496 - categorical\_accuracy: 0.9548  Epoch 00137: ReduceLROnPlateau reducing learning rate to 9.999998977483753e-16.  83/83 [==============================] - 10s 116ms/step - loss: 0.1496 - categorical\_accuracy: 0.9548 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-14  Epoch 138/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1344 - categorical\_accuracy: 0.9571 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-15  Epoch 139/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1566 - categorical\_accuracy: 0.9488 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-15  Epoch 140/500  82/83 [============================>.] - ETA: 0s - loss: 0.1505 - categorical\_accuracy: 0.9543INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0140.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0140.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 177ms/step - loss: 0.1493 - categorical\_accuracy: 0.9548 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-15  Epoch 141/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1465 - categorical\_accuracy: 0.9563 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-15  Epoch 142/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1423 - categorical\_accuracy: 0.9518 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-15  Epoch 143/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1476 - categorical\_accuracy: 0.9480 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-15  Epoch 144/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1419 - categorical\_accuracy: 0.9608 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-15  Epoch 145/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1435 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-15  Epoch 146/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1608 - categorical\_accuracy: 0.9511 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-15  Epoch 147/500  83/83 [==============================] - ETA: 0s - loss: 0.1420 - categorical\_accuracy: 0.9578  Epoch 00147: ReduceLROnPlateau reducing learning rate to 9.999998977483754e-17.  83/83 [==============================] - 10s 115ms/step - loss: 0.1420 - categorical\_accuracy: 0.9578 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-15  Epoch 148/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1354 - categorical\_accuracy: 0.9608 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-16  Epoch 149/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1408 - categorical\_accuracy: 0.9601 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-16  Epoch 150/500  82/83 [============================>.] - ETA: 0s - loss: 0.1374 - categorical\_accuracy: 0.9619INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0150.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0150.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 14s 173ms/step - loss: 0.1369 - categorical\_accuracy: 0.9623 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-16  Epoch 151/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1480 - categorical\_accuracy: 0.9533 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-16  Epoch 152/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1431 - categorical\_accuracy: 0.9586 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-16  Epoch 153/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1510 - categorical\_accuracy: 0.9511 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-16  Epoch 154/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1499 - categorical\_accuracy: 0.9518 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-16  Epoch 155/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1371 - categorical\_accuracy: 0.9541 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-16  Epoch 156/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1430 - categorical\_accuracy: 0.9548 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-16  Epoch 157/500  83/83 [==============================] - ETA: 0s - loss: 0.1370 - categorical\_accuracy: 0.9571  Epoch 00157: ReduceLROnPlateau reducing learning rate to 9.999998845134856e-18.  83/83 [==============================] - 10s 116ms/step - loss: 0.1370 - categorical\_accuracy: 0.9571 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-16  Epoch 158/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1358 - categorical\_accuracy: 0.9616 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-17  Epoch 159/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1408 - categorical\_accuracy: 0.9556 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-17  Epoch 160/500  82/83 [============================>.] - ETA: 0s - loss: 0.1454 - categorical\_accuracy: 0.9535INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0160.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0160.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 179ms/step - loss: 0.1443 - categorical\_accuracy: 0.9541 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-17  Epoch 161/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1307 - categorical\_accuracy: 0.9601 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-17  Epoch 162/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1352 - categorical\_accuracy: 0.9578 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-17  Epoch 163/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1373 - categorical\_accuracy: 0.9608 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-17  Epoch 164/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1419 - categorical\_accuracy: 0.9586 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-17  Epoch 165/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1500 - categorical\_accuracy: 0.9495 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-17  Epoch 166/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1601 - categorical\_accuracy: 0.9518 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-17  Epoch 167/500  83/83 [==============================] - ETA: 0s - loss: 0.1364 - categorical\_accuracy: 0.9608  Epoch 00167: ReduceLROnPlateau reducing learning rate to 9.999999010570977e-19.  83/83 [==============================] - 10s 116ms/step - loss: 0.1364 - categorical\_accuracy: 0.9608 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-17  Epoch 168/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1362 - categorical\_accuracy: 0.9608 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-18  Epoch 169/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1484 - categorical\_accuracy: 0.9556 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-18  Epoch 170/500  82/83 [============================>.] - ETA: 0s - loss: 0.1326 - categorical\_accuracy: 0.9611INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0170.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0170.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 14s 172ms/step - loss: 0.1314 - categorical\_accuracy: 0.9616 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-18  Epoch 171/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1405 - categorical\_accuracy: 0.9541 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-18  Epoch 172/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1193 - categorical\_accuracy: 0.9721 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-18  Epoch 173/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1426 - categorical\_accuracy: 0.9533 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-18  Epoch 174/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1282 - categorical\_accuracy: 0.9608 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-18  Epoch 175/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1452 - categorical\_accuracy: 0.9586 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-18  Epoch 176/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1400 - categorical\_accuracy: 0.9533 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-18  Epoch 177/500  83/83 [==============================] - ETA: 0s - loss: 0.1318 - categorical\_accuracy: 0.9586  Epoch 00177: ReduceLROnPlateau reducing learning rate to 9.999999424161285e-20.  83/83 [==============================] - 10s 117ms/step - loss: 0.1318 - categorical\_accuracy: 0.9586 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-18  Epoch 178/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1488 - categorical\_accuracy: 0.9495 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-19  Epoch 179/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1386 - categorical\_accuracy: 0.9616 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-19  Epoch 180/500  82/83 [============================>.] - ETA: 0s - loss: 0.1475 - categorical\_accuracy: 0.9482INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0180.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0180.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 177ms/step - loss: 0.1460 - categorical\_accuracy: 0.9488 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-19  Epoch 181/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1339 - categorical\_accuracy: 0.9571 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-19  Epoch 182/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1413 - categorical\_accuracy: 0.9556 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-19  Epoch 183/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1441 - categorical\_accuracy: 0.9556 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-19  Epoch 184/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1523 - categorical\_accuracy: 0.9473 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-19  Epoch 185/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1272 - categorical\_accuracy: 0.9654 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-19  Epoch 186/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1448 - categorical\_accuracy: 0.9608 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-19  Epoch 187/500  83/83 [==============================] - ETA: 0s - loss: 0.1346 - categorical\_accuracy: 0.9593  Epoch 00187: ReduceLROnPlateau reducing learning rate to 9.999999682655225e-21.  83/83 [==============================] - 10s 116ms/step - loss: 0.1346 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-19  Epoch 188/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1389 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-20  Epoch 189/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1406 - categorical\_accuracy: 0.9541 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-20  Epoch 190/500  82/83 [============================>.] - ETA: 0s - loss: 0.1383 - categorical\_accuracy: 0.9596INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0190.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0190.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 14s 174ms/step - loss: 0.1372 - categorical\_accuracy: 0.9601 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-20  Epoch 191/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1465 - categorical\_accuracy: 0.9556 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-20  Epoch 192/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1408 - categorical\_accuracy: 0.9571 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-20  Epoch 193/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1454 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-20  Epoch 194/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1464 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-20  Epoch 195/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1436 - categorical\_accuracy: 0.9511 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-20  Epoch 196/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1414 - categorical\_accuracy: 0.9518 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-20  Epoch 197/500  83/83 [==============================] - ETA: 0s - loss: 0.1341 - categorical\_accuracy: 0.9571  Epoch 00197: ReduceLROnPlateau reducing learning rate to 9.999999682655225e-22.  83/83 [==============================] - 10s 114ms/step - loss: 0.1341 - categorical\_accuracy: 0.9571 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-20  Epoch 198/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1458 - categorical\_accuracy: 0.9541 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-21  Epoch 199/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1334 - categorical\_accuracy: 0.9608 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-21  Epoch 200/500  82/83 [============================>.] - ETA: 0s - loss: 0.1375 - categorical\_accuracy: 0.9581INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0200.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0200.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 178ms/step - loss: 0.1361 - categorical\_accuracy: 0.9586 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-21  Epoch 201/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1284 - categorical\_accuracy: 0.9616 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-21  Epoch 202/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1486 - categorical\_accuracy: 0.9465 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-21  Epoch 203/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1384 - categorical\_accuracy: 0.9631 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-21  Epoch 204/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1453 - categorical\_accuracy: 0.9556 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-21  Epoch 205/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1318 - categorical\_accuracy: 0.9571 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-21  Epoch 206/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1463 - categorical\_accuracy: 0.9511 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-21  Epoch 207/500  83/83 [==============================] - ETA: 0s - loss: 0.1370 - categorical\_accuracy: 0.9578  Epoch 00207: ReduceLROnPlateau reducing learning rate to 9.999999682655225e-23.  83/83 [==============================] - 10s 117ms/step - loss: 0.1370 - categorical\_accuracy: 0.9578 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-21  Epoch 208/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1324 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-22  Epoch 209/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1500 - categorical\_accuracy: 0.9563 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-22  Epoch 210/500  82/83 [============================>.] - ETA: 0s - loss: 0.1392 - categorical\_accuracy: 0.9588INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0210.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0210.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 176ms/step - loss: 0.1383 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-22  Epoch 211/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1442 - categorical\_accuracy: 0.9563 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-22  Epoch 212/500  83/83 [==============================] - 10s 114ms/step - loss: 0.1379 - categorical\_accuracy: 0.9533 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-22  Epoch 213/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1402 - categorical\_accuracy: 0.9495 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-22  Epoch 214/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1405 - categorical\_accuracy: 0.9518 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-22  Epoch 215/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1360 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-22  Epoch 216/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1345 - categorical\_accuracy: 0.9639 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-22  Epoch 217/500  83/83 [==============================] - ETA: 0s - loss: 0.1339 - categorical\_accuracy: 0.9548  Epoch 00217: ReduceLROnPlateau reducing learning rate to 9.999999682655227e-24.  83/83 [==============================] - 10s 115ms/step - loss: 0.1339 - categorical\_accuracy: 0.9548 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-22  Epoch 218/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1404 - categorical\_accuracy: 0.9578 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-23  Epoch 219/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1466 - categorical\_accuracy: 0.9533 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-23  Epoch 220/500  82/83 [============================>.] - ETA: 0s - loss: 0.1550 - categorical\_accuracy: 0.9505INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0220.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0220.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 14s 174ms/step - loss: 0.1537 - categorical\_accuracy: 0.9511 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-23  Epoch 221/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1435 - categorical\_accuracy: 0.9518 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-23  Epoch 222/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1458 - categorical\_accuracy: 0.9488 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-23  Epoch 223/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1368 - categorical\_accuracy: 0.9556 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-23  Epoch 224/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1489 - categorical\_accuracy: 0.9511 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-23  Epoch 225/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1423 - categorical\_accuracy: 0.9578 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-23  Epoch 226/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1517 - categorical\_accuracy: 0.9533 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-23  Epoch 227/500  83/83 [==============================] - ETA: 0s - loss: 0.1325 - categorical\_accuracy: 0.9631  Epoch 00227: ReduceLROnPlateau reducing learning rate to 9.999999998199588e-25.  83/83 [==============================] - 10s 115ms/step - loss: 0.1325 - categorical\_accuracy: 0.9631 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-23  Epoch 228/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1499 - categorical\_accuracy: 0.9465 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-24  Epoch 229/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1293 - categorical\_accuracy: 0.9623 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-24  Epoch 230/500  82/83 [============================>.] - ETA: 0s - loss: 0.1409 - categorical\_accuracy: 0.9512INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0230.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0230.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 178ms/step - loss: 0.1395 - categorical\_accuracy: 0.9518 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-24  Epoch 231/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1386 - categorical\_accuracy: 0.9586 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-24  Epoch 232/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1375 - categorical\_accuracy: 0.9586 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-24  Epoch 233/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1318 - categorical\_accuracy: 0.9646 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-24  Epoch 234/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1461 - categorical\_accuracy: 0.9556 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-24  Epoch 235/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1494 - categorical\_accuracy: 0.9465 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-24  Epoch 236/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1327 - categorical\_accuracy: 0.9639 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-24  Epoch 237/500  83/83 [==============================] - ETA: 0s - loss: 0.1497 - categorical\_accuracy: 0.9473  Epoch 00237: ReduceLROnPlateau reducing learning rate to 1.0000000195414814e-25.  83/83 [==============================] - 10s 118ms/step - loss: 0.1497 - categorical\_accuracy: 0.9473 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-24  Epoch 238/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1417 - categorical\_accuracy: 0.9556 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-25  Epoch 239/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1522 - categorical\_accuracy: 0.9533 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-25  Epoch 240/500  82/83 [============================>.] - ETA: 0s - loss: 0.1374 - categorical\_accuracy: 0.9566INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0240.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0240.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 176ms/step - loss: 0.1362 - categorical\_accuracy: 0.9571 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-25  Epoch 241/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1429 - categorical\_accuracy: 0.9518 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-25  Epoch 242/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1380 - categorical\_accuracy: 0.9608 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-25  Epoch 243/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1428 - categorical\_accuracy: 0.9533 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-25  Epoch 244/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1353 - categorical\_accuracy: 0.9541 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-25  Epoch 245/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1479 - categorical\_accuracy: 0.9548 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-25  Epoch 246/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1336 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-25  Epoch 247/500  83/83 [==============================] - ETA: 0s - loss: 0.1282 - categorical\_accuracy: 0.9593  Epoch 00247: ReduceLROnPlateau reducing learning rate to 1.0000000195414814e-26.  83/83 [==============================] - 10s 116ms/step - loss: 0.1282 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-25  Epoch 248/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1302 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-26  Epoch 249/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1343 - categorical\_accuracy: 0.9684 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-26  Epoch 250/500  82/83 [============================>.] - ETA: 0s - loss: 0.1497 - categorical\_accuracy: 0.9543INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0250.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0250.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 179ms/step - loss: 0.1481 - categorical\_accuracy: 0.9548 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-26  Epoch 251/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1445 - categorical\_accuracy: 0.9586 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-26  Epoch 252/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1503 - categorical\_accuracy: 0.9526 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-26  Epoch 253/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1322 - categorical\_accuracy: 0.9601 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-26  Epoch 254/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1430 - categorical\_accuracy: 0.9556 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-26  Epoch 255/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1307 - categorical\_accuracy: 0.9616 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-26  Epoch 256/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1386 - categorical\_accuracy: 0.9571 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-26  Epoch 257/500  83/83 [==============================] - ETA: 0s - loss: 0.1432 - categorical\_accuracy: 0.9563  Epoch 00257: ReduceLROnPlateau reducing learning rate to 9.999999887266024e-28.  83/83 [==============================] - 10s 116ms/step - loss: 0.1432 - categorical\_accuracy: 0.9563 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-26  Epoch 258/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1394 - categorical\_accuracy: 0.9578 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-27  Epoch 259/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1374 - categorical\_accuracy: 0.9578 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-27  Epoch 260/500  82/83 [============================>.] - ETA: 0s - loss: 0.1534 - categorical\_accuracy: 0.9520INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0260.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0260.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 14s 174ms/step - loss: 0.1521 - categorical\_accuracy: 0.9526 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-27  Epoch 261/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1415 - categorical\_accuracy: 0.9556 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-27  Epoch 262/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1341 - categorical\_accuracy: 0.9571 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-27  Epoch 263/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1685 - categorical\_accuracy: 0.9458 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-27  Epoch 264/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1377 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-27  Epoch 265/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1294 - categorical\_accuracy: 0.9623 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-27  Epoch 266/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1292 - categorical\_accuracy: 0.9518 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-27  Epoch 267/500  83/83 [==============================] - ETA: 0s - loss: 0.1338 - categorical\_accuracy: 0.9571  Epoch 00267: ReduceLROnPlateau reducing learning rate to 1.0000000272452012e-28.  83/83 [==============================] - 10s 117ms/step - loss: 0.1338 - categorical\_accuracy: 0.9571 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-27  Epoch 268/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1237 - categorical\_accuracy: 0.9639 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-28  Epoch 269/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1454 - categorical\_accuracy: 0.9541 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-28  Epoch 270/500  82/83 [============================>.] - ETA: 0s - loss: 0.1485 - categorical\_accuracy: 0.9527INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0270.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0270.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 178ms/step - loss: 0.1470 - categorical\_accuracy: 0.9533 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-28  Epoch 271/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1376 - categorical\_accuracy: 0.9541 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-28  Epoch 272/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1271 - categorical\_accuracy: 0.9661 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-28  Epoch 273/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1432 - categorical\_accuracy: 0.9578 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-28  Epoch 274/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1441 - categorical\_accuracy: 0.9601 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-28  Epoch 275/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1309 - categorical\_accuracy: 0.9691 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-28  Epoch 276/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1445 - categorical\_accuracy: 0.9533 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-28  Epoch 277/500  83/83 [==============================] - ETA: 0s - loss: 0.1597 - categorical\_accuracy: 0.9465  Epoch 00277: ReduceLROnPlateau reducing learning rate to 1.0000000031710769e-29.  83/83 [==============================] - 10s 117ms/step - loss: 0.1597 - categorical\_accuracy: 0.9465 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-28  Epoch 278/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1525 - categorical\_accuracy: 0.9443 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-29  Epoch 279/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1379 - categorical\_accuracy: 0.9526 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-29  Epoch 280/500  82/83 [============================>.] - ETA: 0s - loss: 0.1445 - categorical\_accuracy: 0.9505INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0280.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0280.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 178ms/step - loss: 0.1434 - categorical\_accuracy: 0.9511 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-29  Epoch 281/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1325 - categorical\_accuracy: 0.9654 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-29  Epoch 282/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1490 - categorical\_accuracy: 0.9488 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-29  Epoch 283/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1404 - categorical\_accuracy: 0.9571 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-29  Epoch 284/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1575 - categorical\_accuracy: 0.9435 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-29  Epoch 285/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1387 - categorical\_accuracy: 0.9601 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-29  Epoch 286/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1408 - categorical\_accuracy: 0.9511 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-29  Epoch 287/500  83/83 [==============================] - ETA: 0s - loss: 0.1527 - categorical\_accuracy: 0.9465  Epoch 00287: ReduceLROnPlateau reducing learning rate to 1.0000000031710769e-30.  83/83 [==============================] - 10s 115ms/step - loss: 0.1527 - categorical\_accuracy: 0.9465 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-29  Epoch 288/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1338 - categorical\_accuracy: 0.9556 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-30  Epoch 289/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1543 - categorical\_accuracy: 0.9503 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-30  Epoch 290/500  82/83 [============================>.] - ETA: 0s - loss: 0.1481 - categorical\_accuracy: 0.9558INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0290.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0290.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 14s 174ms/step - loss: 0.1467 - categorical\_accuracy: 0.9563 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-30  Epoch 291/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1474 - categorical\_accuracy: 0.9526 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-30  Epoch 292/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1396 - categorical\_accuracy: 0.9601 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-30  Epoch 293/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1457 - categorical\_accuracy: 0.9518 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-30  Epoch 294/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1400 - categorical\_accuracy: 0.9578 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-30  Epoch 295/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1367 - categorical\_accuracy: 0.9661 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-30  Epoch 296/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1275 - categorical\_accuracy: 0.9608 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-30  Epoch 297/500  83/83 [==============================] - ETA: 0s - loss: 0.1454 - categorical\_accuracy: 0.9541  Epoch 00297: ReduceLROnPlateau reducing learning rate to 1.000000003171077e-31.  83/83 [==============================] - 10s 116ms/step - loss: 0.1454 - categorical\_accuracy: 0.9541 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-30  Epoch 298/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1477 - categorical\_accuracy: 0.9503 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-31  Epoch 299/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1565 - categorical\_accuracy: 0.9480 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-31  Epoch 300/500  82/83 [============================>.] - ETA: 0s - loss: 0.1529 - categorical\_accuracy: 0.9505INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0300.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0300.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 180ms/step - loss: 0.1516 - categorical\_accuracy: 0.9511 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-31  Epoch 301/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1380 - categorical\_accuracy: 0.9586 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-31  Epoch 302/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1337 - categorical\_accuracy: 0.9571 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-31  Epoch 303/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1444 - categorical\_accuracy: 0.9511 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-31  Epoch 304/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1329 - categorical\_accuracy: 0.9578 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-31  Epoch 305/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1268 - categorical\_accuracy: 0.9608 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-31  Epoch 306/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1445 - categorical\_accuracy: 0.9556 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-31  Epoch 307/500  83/83 [==============================] - ETA: 0s - loss: 0.1354 - categorical\_accuracy: 0.9571  Epoch 00307: ReduceLROnPlateau reducing learning rate to 9.999999796611899e-33.  83/83 [==============================] - 10s 115ms/step - loss: 0.1354 - categorical\_accuracy: 0.9571 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-31  Epoch 308/500  83/83 [==============================] - 10s 114ms/step - loss: 0.1317 - categorical\_accuracy: 0.9631 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-32  Epoch 309/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1302 - categorical\_accuracy: 0.9631 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-32  Epoch 310/500  82/83 [============================>.] - ETA: 0s - loss: 0.1453 - categorical\_accuracy: 0.9566INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0310.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0310.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 14s 174ms/step - loss: 0.1452 - categorical\_accuracy: 0.9563 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-32  Epoch 311/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1384 - categorical\_accuracy: 0.9458 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-32  Epoch 312/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1379 - categorical\_accuracy: 0.9511 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-32  Epoch 313/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1328 - categorical\_accuracy: 0.9631 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-32  Epoch 314/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1367 - categorical\_accuracy: 0.9661 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-32  Epoch 315/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1398 - categorical\_accuracy: 0.9586 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-32  Epoch 316/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1363 - categorical\_accuracy: 0.9578 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-32  Epoch 317/500  83/83 [==============================] - ETA: 0s - loss: 0.1286 - categorical\_accuracy: 0.9578  Epoch 00317: ReduceLROnPlateau reducing learning rate to 9.999999502738312e-34.  83/83 [==============================] - 10s 114ms/step - loss: 0.1286 - categorical\_accuracy: 0.9578 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-32  Epoch 318/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1474 - categorical\_accuracy: 0.9511 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-33  Epoch 319/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1429 - categorical\_accuracy: 0.9495 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-33  Epoch 320/500  82/83 [============================>.] - ETA: 0s - loss: 0.1458 - categorical\_accuracy: 0.9588INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0320.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0320.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 178ms/step - loss: 0.1447 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-33  Epoch 321/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1388 - categorical\_accuracy: 0.9623 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-33  Epoch 322/500  83/83 [==============================] - 10s 120ms/step - loss: 0.1451 - categorical\_accuracy: 0.9518 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-33  Epoch 323/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1368 - categorical\_accuracy: 0.9608 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-33  Epoch 324/500  83/83 [==============================] - 10s 114ms/step - loss: 0.1438 - categorical\_accuracy: 0.9511 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-33  Epoch 325/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1200 - categorical\_accuracy: 0.9691 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-33  Epoch 326/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1508 - categorical\_accuracy: 0.9563 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-33  Epoch 327/500  83/83 [==============================] - ETA: 0s - loss: 0.1371 - categorical\_accuracy: 0.9578  Epoch 00327: ReduceLROnPlateau reducing learning rate to 9.999999319067318e-35.  83/83 [==============================] - 10s 116ms/step - loss: 0.1371 - categorical\_accuracy: 0.9578 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-33  Epoch 328/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1401 - categorical\_accuracy: 0.9548 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-34  Epoch 329/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1538 - categorical\_accuracy: 0.9563 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-34  Epoch 330/500  82/83 [============================>.] - ETA: 0s - loss: 0.1417 - categorical\_accuracy: 0.9588INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0330.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0330.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 14s 174ms/step - loss: 0.1405 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-34  Epoch 331/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1302 - categorical\_accuracy: 0.9616 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-34  Epoch 332/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1310 - categorical\_accuracy: 0.9631 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-34  Epoch 333/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1231 - categorical\_accuracy: 0.9631 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-34  Epoch 334/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1363 - categorical\_accuracy: 0.9533 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-34  Epoch 335/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1427 - categorical\_accuracy: 0.9495 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-34  Epoch 336/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1393 - categorical\_accuracy: 0.9541 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-34  Epoch 337/500  83/83 [==============================] - ETA: 0s - loss: 0.1432 - categorical\_accuracy: 0.9608  Epoch 00337: ReduceLROnPlateau reducing learning rate to 9.999999319067319e-36.  83/83 [==============================] - 10s 115ms/step - loss: 0.1432 - categorical\_accuracy: 0.9608 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-34  Epoch 338/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1480 - categorical\_accuracy: 0.9563 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-35  Epoch 339/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1289 - categorical\_accuracy: 0.9578 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-35  Epoch 340/500  82/83 [============================>.] - ETA: 0s - loss: 0.1397 - categorical\_accuracy: 0.9611INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0340.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0340.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 14s 172ms/step - loss: 0.1391 - categorical\_accuracy: 0.9608 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-35  Epoch 341/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1488 - categorical\_accuracy: 0.9518 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-35  Epoch 342/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1364 - categorical\_accuracy: 0.9571 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-35  Epoch 343/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1406 - categorical\_accuracy: 0.9601 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-35  Epoch 344/500  83/83 [==============================] - 9s 114ms/step - loss: 0.1389 - categorical\_accuracy: 0.9578 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-35  Epoch 345/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1512 - categorical\_accuracy: 0.9541 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-35  Epoch 346/500  83/83 [==============================] - 10s 114ms/step - loss: 0.1387 - categorical\_accuracy: 0.9578 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-35  Epoch 347/500  83/83 [==============================] - ETA: 0s - loss: 0.1377 - categorical\_accuracy: 0.9593  Epoch 00347: ReduceLROnPlateau reducing learning rate to 9.999999462560281e-37.  83/83 [==============================] - 10s 114ms/step - loss: 0.1377 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-35  Epoch 348/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1433 - categorical\_accuracy: 0.9518 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-36  Epoch 349/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1324 - categorical\_accuracy: 0.9586 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-36  Epoch 350/500  82/83 [============================>.] - ETA: 0s - loss: 0.1370 - categorical\_accuracy: 0.9543INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0350.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0350.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 178ms/step - loss: 0.1358 - categorical\_accuracy: 0.9548 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-36  Epoch 351/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1363 - categorical\_accuracy: 0.9639 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-36  Epoch 352/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1428 - categorical\_accuracy: 0.9616 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-36  Epoch 353/500  83/83 [==============================] - 10s 114ms/step - loss: 0.1399 - categorical\_accuracy: 0.9541 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-36  Epoch 354/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1522 - categorical\_accuracy: 0.9526 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-36  Epoch 355/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1372 - categorical\_accuracy: 0.9601 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-36  Epoch 356/500  83/83 [==============================] - 9s 114ms/step - loss: 0.1481 - categorical\_accuracy: 0.9526 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-36  Epoch 357/500  83/83 [==============================] - ETA: 0s - loss: 0.1240 - categorical\_accuracy: 0.9593  Epoch 00357: ReduceLROnPlateau reducing learning rate to 9.99999946256028e-38.  83/83 [==============================] - 10s 115ms/step - loss: 0.1240 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-36  Epoch 358/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1402 - categorical\_accuracy: 0.9556 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-37  Epoch 359/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1337 - categorical\_accuracy: 0.9646 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-37  Epoch 360/500  82/83 [============================>.] - ETA: 0s - loss: 0.1404 - categorical\_accuracy: 0.9604INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0360.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0360.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 177ms/step - loss: 0.1501 - categorical\_accuracy: 0.9465 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-38  Epoch 371/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1528 - categorical\_accuracy: 0.9526 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-38  Epoch 372/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1552 - categorical\_accuracy: 0.9548 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-38  Epoch 373/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1447 - categorical\_accuracy: 0.9503 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-38  Epoch 374/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1293 - categorical\_accuracy: 0.9601 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-38  Epoch 375/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1356 - categorical\_accuracy: 0.9646 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-38  Epoch 376/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1479 - categorical\_accuracy: 0.9533 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-38  Epoch 377/500  83/83 [==============================] - ETA: 0s - loss: 0.1420 - categorical\_accuracy: 0.9541  Epoch 00377: ReduceLROnPlateau reducing learning rate to 9.999999350456405e-40.  83/83 [==============================] - 10s 116ms/step - loss: 0.1420 - categorical\_accuracy: 0.9541 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-38  Epoch 378/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1377 - categorical\_accuracy: 0.9601 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-39  Epoch 379/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1371 - categorical\_accuracy: 0.9526 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-39  Epoch 380/500  82/83 [============================>.] - ETA: 0s - loss: 0.1293 - categorical\_accuracy: 0.9672INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0380.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0380.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 176ms/step - loss: 0.1286 - categorical\_accuracy: 0.9676 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-39  Epoch 381/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1284 - categorical\_accuracy: 0.9616 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-39  Epoch 382/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1514 - categorical\_accuracy: 0.9495 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-39  Epoch 383/500  83/83 [==============================] - 10s 115ms/step - loss: 0.1356 - categorical\_accuracy: 0.9578 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-39  Epoch 384/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1460 - categorical\_accuracy: 0.9533 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-39  Epoch 385/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1418 - categorical\_accuracy: 0.9586 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-39  Epoch 386/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1552 - categorical\_accuracy: 0.9556 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-39  Epoch 387/500  83/83 [==============================] - ETA: 0s - loss: 0.1465 - categorical\_accuracy: 0.9473  Epoch 00387: ReduceLROnPlateau reducing learning rate to 1.0000002153053334e-40.  83/83 [==============================] - 10s 116ms/step - loss: 0.1465 - categorical\_accuracy: 0.9473 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-39  Epoch 388/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1368 - categorical\_accuracy: 0.9631 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9999e-41  Epoch 389/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1318 - categorical\_accuracy: 0.9586 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9999e-41  Epoch 390/500  82/83 [============================>.] - ETA: 0s - loss: 0.1466 - categorical\_accuracy: 0.9550INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0390.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0390.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 182ms/step - loss: 0.1451 - categorical\_accuracy: 0.9556 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9999e-41  Epoch 391/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1296 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9999e-41  Epoch 392/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1391 - categorical\_accuracy: 0.9616 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9999e-41  Epoch 393/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1415 - categorical\_accuracy: 0.9586 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9999e-41  Epoch 394/500  83/83 [==============================] - 10s 117ms/step - loss: 0.1390 - categorical\_accuracy: 0.9578 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9999e-41  Epoch 395/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1330 - categorical\_accuracy: 0.9563 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9999e-41  Epoch 396/500  83/83 [==============================] - 10s 116ms/step - loss: 0.1476 - categorical\_accuracy: 0.9548 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9999e-41  Epoch 397/500  83/83 [==============================] - ETA: 0s - loss: 0.1459 - categorical\_accuracy: 0.9571  Epoch 00397: ReduceLROnPlateau reducing learning rate to 9.99994610111476e-42.  83/83 [==============================] - 10s 118ms/step - loss: 0.1459 - categorical\_accuracy: 0.9571 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9999e-41  Epoch 398/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1406 - categorical\_accuracy: 0.9586 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9997e-42  Epoch 399/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1315 - categorical\_accuracy: 0.9654 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9997e-42  Epoch 400/500  82/83 [============================>.] - ETA: 0s - loss: 0.1353 - categorical\_accuracy: 0.9627INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0400.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0400.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 181ms/step - loss: 0.1345 - categorical\_accuracy: 0.9631 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9997e-42  Epoch 401/500  83/83 [==============================] - 10s 121ms/step - loss: 0.1354 - categorical\_accuracy: 0.9608 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9997e-42  Epoch 402/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1387 - categorical\_accuracy: 0.9556 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9997e-42  Epoch 403/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1408 - categorical\_accuracy: 0.9578 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9997e-42  Epoch 404/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1476 - categorical\_accuracy: 0.9518 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9997e-42  Epoch 405/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1384 - categorical\_accuracy: 0.9608 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9997e-42  Epoch 406/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1322 - categorical\_accuracy: 0.9623 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9997e-42  Epoch 407/500  83/83 [==============================] - ETA: 0s - loss: 0.1373 - categorical\_accuracy: 0.9593  Epoch 00407: ReduceLROnPlateau reducing learning rate to 9.999665841421895e-43.  83/83 [==============================] - 10s 118ms/step - loss: 0.1373 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9997e-42  Epoch 408/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1438 - categorical\_accuracy: 0.9548 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0005e-42  Epoch 409/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1468 - categorical\_accuracy: 0.9526 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0005e-42  Epoch 410/500  82/83 [============================>.] - ETA: 0s - loss: 0.1415 - categorical\_accuracy: 0.9588INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0410.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0410.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 177ms/step - loss: 0.1406 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0005e-42  Epoch 411/500  83/83 [==============================] - 10s 120ms/step - loss: 0.1407 - categorical\_accuracy: 0.9533 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0005e-42  Epoch 412/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1388 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0005e-42  Epoch 413/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1407 - categorical\_accuracy: 0.9548 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0005e-42  Epoch 414/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1483 - categorical\_accuracy: 0.9541 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0005e-42  Epoch 415/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1443 - categorical\_accuracy: 0.9518 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0005e-42  Epoch 416/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1412 - categorical\_accuracy: 0.9533 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0005e-42  Epoch 417/500  83/83 [==============================] - ETA: 0s - loss: 0.1316 - categorical\_accuracy: 0.9601  Epoch 00417: ReduceLROnPlateau reducing learning rate to 1.0005271035279195e-43.  83/83 [==============================] - 10s 119ms/step - loss: 0.1316 - categorical\_accuracy: 0.9601 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.0005e-42  Epoch 418/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1410 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9492e-44  Epoch 419/500  83/83 [==============================] - 10s 121ms/step - loss: 0.1370 - categorical\_accuracy: 0.9608 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9492e-44  Epoch 420/500  82/83 [============================>.] - ETA: 0s - loss: 0.1453 - categorical\_accuracy: 0.9543INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0420.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0420.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 185ms/step - loss: 0.1460 - categorical\_accuracy: 0.9541 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9492e-44  Epoch 421/500  83/83 [==============================] - 10s 120ms/step - loss: 0.1411 - categorical\_accuracy: 0.9601 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9492e-44  Epoch 422/500  83/83 [==============================] - 10s 120ms/step - loss: 0.1438 - categorical\_accuracy: 0.9541 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9492e-44  Epoch 423/500  83/83 [==============================] - 10s 120ms/step - loss: 0.1245 - categorical\_accuracy: 0.9721 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9492e-44  Epoch 424/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1322 - categorical\_accuracy: 0.9608 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9492e-44  Epoch 425/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1401 - categorical\_accuracy: 0.9541 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9492e-44  Epoch 426/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1345 - categorical\_accuracy: 0.9571 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9492e-44  Epoch 427/500  83/83 [==============================] - ETA: 0s - loss: 0.1371 - categorical\_accuracy: 0.9616  Epoch 00427: ReduceLROnPlateau reducing learning rate to 9.949219096706202e-45.  83/83 [==============================] - 10s 119ms/step - loss: 0.1371 - categorical\_accuracy: 0.9616 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.9492e-44  Epoch 428/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1422 - categorical\_accuracy: 0.9526 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.8091e-45  Epoch 429/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1402 - categorical\_accuracy: 0.9556 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.8091e-45  Epoch 430/500  82/83 [============================>.] - ETA: 0s - loss: 0.1329 - categorical\_accuracy: 0.9642INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0430.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0430.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 178ms/step - loss: 0.1322 - categorical\_accuracy: 0.9646 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.8091e-45  Epoch 431/500  83/83 [==============================] - 10s 121ms/step - loss: 0.1478 - categorical\_accuracy: 0.9511 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.8091e-45  Epoch 432/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1408 - categorical\_accuracy: 0.9571 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.8091e-45  Epoch 433/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1609 - categorical\_accuracy: 0.9488 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.8091e-45  Epoch 434/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1479 - categorical\_accuracy: 0.9495 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.8091e-45  Epoch 435/500  83/83 [==============================] - 10s 120ms/step - loss: 0.1368 - categorical\_accuracy: 0.9563 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.8091e-45  Epoch 436/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1446 - categorical\_accuracy: 0.9511 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.8091e-45  Epoch 437/500  83/83 [==============================] - ETA: 0s - loss: 0.1408 - categorical\_accuracy: 0.9563  Epoch 00437: ReduceLROnPlateau reducing learning rate to 9.80908925027372e-46.  83/83 [==============================] - 10s 119ms/step - loss: 0.1408 - categorical\_accuracy: 0.9563 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 9.8091e-45  Epoch 438/500  83/83 [==============================] - 10s 120ms/step - loss: 0.1377 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.4013e-45  Epoch 439/500  83/83 [==============================] - 10s 120ms/step - loss: 0.1453 - categorical\_accuracy: 0.9488 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.4013e-45  Epoch 440/500  82/83 [============================>.] - ETA: 0s - loss: 0.1351 - categorical\_accuracy: 0.9596INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0440.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0440.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 185ms/step - loss: 0.1341 - categorical\_accuracy: 0.9601 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.4013e-45  Epoch 441/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1358 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.4013e-45  Epoch 442/500  83/83 [==============================] - 10s 122ms/step - loss: 0.1564 - categorical\_accuracy: 0.9428 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.4013e-45  Epoch 443/500  83/83 [==============================] - 10s 120ms/step - loss: 0.1385 - categorical\_accuracy: 0.9571 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.4013e-45  Epoch 444/500  83/83 [==============================] - 10s 120ms/step - loss: 0.1509 - categorical\_accuracy: 0.9458 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.4013e-45  Epoch 445/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1477 - categorical\_accuracy: 0.9473 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.4013e-45  Epoch 446/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1475 - categorical\_accuracy: 0.9533 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.4013e-45  Epoch 447/500  83/83 [==============================] - ETA: 0s - loss: 0.1463 - categorical\_accuracy: 0.9518  Epoch 00447: ReduceLROnPlateau reducing learning rate to 1.4012984643248171e-46.  83/83 [==============================] - 10s 120ms/step - loss: 0.1463 - categorical\_accuracy: 0.9518 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 1.4013e-45  Epoch 448/500  83/83 [==============================] - 10s 120ms/step - loss: 0.1273 - categorical\_accuracy: 0.9623 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 449/500  83/83 [==============================] - 10s 121ms/step - loss: 0.1366 - categorical\_accuracy: 0.9511 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 450/500  82/83 [============================>.] - ETA: 0s - loss: 0.1390 - categorical\_accuracy: 0.9489INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0450.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0450.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 179ms/step - loss: 0.1377 - categorical\_accuracy: 0.9495 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 451/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1516 - categorical\_accuracy: 0.9480 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 452/500  83/83 [==============================] - 10s 121ms/step - loss: 0.1422 - categorical\_accuracy: 0.9548 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 453/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1548 - categorical\_accuracy: 0.9495 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 454/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1227 - categorical\_accuracy: 0.9654 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 455/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1391 - categorical\_accuracy: 0.9601 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 456/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1425 - categorical\_accuracy: 0.9488 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 457/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1355 - categorical\_accuracy: 0.9661 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 458/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1444 - categorical\_accuracy: 0.9533 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 459/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1478 - categorical\_accuracy: 0.9533 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 460/500  82/83 [============================>.] - ETA: 0s - loss: 0.1570 - categorical\_accuracy: 0.9489INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0460.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0460.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 183ms/step - loss: 0.1554 - categorical\_accuracy: 0.9495 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 461/500  83/83 [==============================] - 10s 122ms/step - loss: 0.1339 - categorical\_accuracy: 0.9608 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 462/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1399 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 463/500  83/83 [==============================] - 10s 120ms/step - loss: 0.1389 - categorical\_accuracy: 0.9571 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 464/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1381 - categorical\_accuracy: 0.9533 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 465/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1502 - categorical\_accuracy: 0.9563 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 466/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1295 - categorical\_accuracy: 0.9661 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 467/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1458 - categorical\_accuracy: 0.9601 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 468/500  83/83 [==============================] - 10s 120ms/step - loss: 0.1244 - categorical\_accuracy: 0.9684 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 469/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1285 - categorical\_accuracy: 0.9578 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 470/500  82/83 [============================>.] - ETA: 0s - loss: 0.1408 - categorical\_accuracy: 0.9520INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0470.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0470.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 178ms/step - loss: 0.1396 - categorical\_accuracy: 0.9526 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 471/500  83/83 [==============================] - 10s 121ms/step - loss: 0.1513 - categorical\_accuracy: 0.9533 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 472/500  83/83 [==============================] - 10s 120ms/step - loss: 0.1408 - categorical\_accuracy: 0.9563 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 473/500  83/83 [==============================] - 10s 120ms/step - loss: 0.1347 - categorical\_accuracy: 0.9669 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 474/500  83/83 [==============================] - 10s 120ms/step - loss: 0.1443 - categorical\_accuracy: 0.9503 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 475/500  83/83 [==============================] - 10s 120ms/step - loss: 0.1465 - categorical\_accuracy: 0.9563 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 476/500  83/83 [==============================] - 10s 120ms/step - loss: 0.1406 - categorical\_accuracy: 0.9548 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 477/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1448 - categorical\_accuracy: 0.9556 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 478/500  83/83 [==============================] - 10s 121ms/step - loss: 0.1386 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 479/500  83/83 [==============================] - 10s 121ms/step - loss: 0.1442 - categorical\_accuracy: 0.9488 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 480/500  82/83 [============================>.] - ETA: 0s - loss: 0.1308 - categorical\_accuracy: 0.9596INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0480.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0480.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 184ms/step - loss: 0.1300 - categorical\_accuracy: 0.9601 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 481/500  83/83 [==============================] - 10s 121ms/step - loss: 0.1371 - categorical\_accuracy: 0.9608 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 482/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1446 - categorical\_accuracy: 0.9541 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 483/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1384 - categorical\_accuracy: 0.9586 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 484/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1440 - categorical\_accuracy: 0.9578 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 485/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1233 - categorical\_accuracy: 0.9691 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 486/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1381 - categorical\_accuracy: 0.9495 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 487/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1406 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 488/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1441 - categorical\_accuracy: 0.9541 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 489/500  83/83 [==============================] - 10s 120ms/step - loss: 0.1429 - categorical\_accuracy: 0.9571 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 490/500  82/83 [============================>.] - ETA: 0s - loss: 0.1390 - categorical\_accuracy: 0.9566INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0490.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0490.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 182ms/step - loss: 0.1376 - categorical\_accuracy: 0.9571 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 491/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1395 - categorical\_accuracy: 0.9586 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 492/500  83/83 [==============================] - 10s 121ms/step - loss: 0.1347 - categorical\_accuracy: 0.9601 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 493/500  83/83 [==============================] - 10s 120ms/step - loss: 0.1312 - categorical\_accuracy: 0.9593 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 494/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1440 - categorical\_accuracy: 0.9548 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 495/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1416 - categorical\_accuracy: 0.9563 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 496/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1494 - categorical\_accuracy: 0.9533 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 497/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1430 - categorical\_accuracy: 0.9503 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 498/500  83/83 [==============================] - 10s 118ms/step - loss: 0.1379 - categorical\_accuracy: 0.9563 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 499/500  83/83 [==============================] - 10s 119ms/step - loss: 0.1376 - categorical\_accuracy: 0.9578 - val\_loss: 0.8644 - val\_categorical\_accuracy: 0.8125 - lr: 0.0000e+00  Epoch 500/500  82/83 [============================>.] - ETA: 0s - loss: 0.1392 - categorical\_accuracy: 0.9566INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0500.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0500.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7f82af3031d0> has the same name 'LSTM' as a built-in Keras object. 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| --- |