Train Print

| Epoch 1/2000  83/83 [==============================] - 306s 4s/step - loss: 1.6015 - categorical\_accuracy: 0.2477 - val\_loss: 1.5629 - val\_categorical\_accuracy: 0.3056 - lr: 1.0000e-05  Epoch 2/2000  83/83 [==============================] - 10s 114ms/step - loss: 1.5610 - categorical\_accuracy: 0.2831 - val\_loss: 1.5318 - val\_categorical\_accuracy: 0.3194 - lr: 1.0000e-05  Epoch 3/2000  83/83 [==============================] - 10s 114ms/step - loss: 1.5347 - categorical\_accuracy: 0.2974 - val\_loss: 1.5061 - val\_categorical\_accuracy: 0.3264 - lr: 1.0000e-05  Epoch 4/2000  83/83 [==============================] - 10s 115ms/step - loss: 1.5041 - categorical\_accuracy: 0.3464 - val\_loss: 1.4798 - val\_categorical\_accuracy: 0.3403 - lr: 1.0000e-05  Epoch 5/2000  83/83 [==============================] - 10s 115ms/step - loss: 1.4833 - categorical\_accuracy: 0.3554 - val\_loss: 1.4563 - val\_categorical\_accuracy: 0.3611 - lr: 1.0000e-05  Epoch 6/2000  83/83 [==============================] - 10s 115ms/step - loss: 1.4461 - categorical\_accuracy: 0.3908 - val\_loss: 1.4302 - val\_categorical\_accuracy: 0.4028 - lr: 1.0000e-05  Epoch 7/2000  83/83 [==============================] - 10s 115ms/step - loss: 1.4144 - categorical\_accuracy: 0.4179 - val\_loss: 1.3997 - val\_categorical\_accuracy: 0.4444 - lr: 1.0000e-05  Epoch 8/2000  83/83 [==============================] - 10s 114ms/step - loss: 1.3814 - categorical\_accuracy: 0.4413 - val\_loss: 1.3675 - val\_categorical\_accuracy: 0.4514 - lr: 1.0000e-05  Epoch 9/2000  83/83 [==============================] - 10s 117ms/step - loss: 1.3584 - categorical\_accuracy: 0.4330 - val\_loss: 1.3348 - val\_categorical\_accuracy: 0.4514 - lr: 1.0000e-05  Epoch 10/2000  83/83 [==============================] - 10s 115ms/step - loss: 1.3027 - categorical\_accuracy: 0.4872 - val\_loss: 1.2947 - val\_categorical\_accuracy: 0.4653 - lr: 1.0000e-05  Epoch 11/2000  83/83 [==============================] - 9s 114ms/step - loss: 1.2805 - categorical\_accuracy: 0.5068 - val\_loss: 1.2426 - val\_categorical\_accuracy: 0.4861 - lr: 1.0000e-05  Epoch 12/2000  83/83 [==============================] - 10s 114ms/step - loss: 1.2150 - categorical\_accuracy: 0.5459 - val\_loss: 1.1815 - val\_categorical\_accuracy: 0.5625 - lr: 1.0000e-05  Epoch 13/2000  83/83 [==============================] - 10s 115ms/step - loss: 1.1550 - categorical\_accuracy: 0.5730 - val\_loss: 1.1162 - val\_categorical\_accuracy: 0.6181 - lr: 1.0000e-05  Epoch 14/2000  83/83 [==============================] - 10s 114ms/step - loss: 1.0832 - categorical\_accuracy: 0.6024 - val\_loss: 1.0725 - val\_categorical\_accuracy: 0.6319 - lr: 1.0000e-05  Epoch 15/2000  83/83 [==============================] - 10s 115ms/step - loss: 1.0161 - categorical\_accuracy: 0.6250 - val\_loss: 1.0235 - val\_categorical\_accuracy: 0.6597 - lr: 1.0000e-05  Epoch 16/2000  83/83 [==============================] - 10s 114ms/step - loss: 0.9668 - categorical\_accuracy: 0.6431 - val\_loss: 0.9921 - val\_categorical\_accuracy: 0.6458 - lr: 1.0000e-05  Epoch 17/2000  83/83 [==============================] - 10s 114ms/step - loss: 0.9139 - categorical\_accuracy: 0.6589 - val\_loss: 0.9793 - val\_categorical\_accuracy: 0.6319 - lr: 1.0000e-05  Epoch 18/2000  83/83 [==============================] - 10s 114ms/step - loss: 0.8603 - categorical\_accuracy: 0.6890 - val\_loss: 0.9561 - val\_categorical\_accuracy: 0.6528 - lr: 1.0000e-05  Epoch 19/2000  83/83 [==============================] - 9s 114ms/step - loss: 0.7922 - categorical\_accuracy: 0.7063 - val\_loss: 0.9181 - val\_categorical\_accuracy: 0.6597 - lr: 1.0000e-05  Epoch 20/2000  83/83 [==============================] - 9s 114ms/step - loss: 0.7349 - categorical\_accuracy: 0.7402 - val\_loss: 0.9040 - val\_categorical\_accuracy: 0.6667 - lr: 1.0000e-05  Epoch 21/2000  83/83 [==============================] - 9s 113ms/step - loss: 0.6816 - categorical\_accuracy: 0.7643 - val\_loss: 0.8635 - val\_categorical\_accuracy: 0.6875 - lr: 1.0000e-05  Epoch 22/2000  83/83 [==============================] - 10s 114ms/step - loss: 0.6422 - categorical\_accuracy: 0.7733 - val\_loss: 0.8409 - val\_categorical\_accuracy: 0.6875 - lr: 1.0000e-05  Epoch 23/2000  83/83 [==============================] - 9s 114ms/step - loss: 0.6018 - categorical\_accuracy: 0.7907 - val\_loss: 0.8116 - val\_categorical\_accuracy: 0.7222 - lr: 1.0000e-05  Epoch 24/2000  83/83 [==============================] - 10s 114ms/step - loss: 0.5721 - categorical\_accuracy: 0.8035 - val\_loss: 0.7709 - val\_categorical\_accuracy: 0.7292 - lr: 1.0000e-05  Epoch 25/2000  83/83 [==============================] - 10s 114ms/step - loss: 0.5454 - categorical\_accuracy: 0.8148 - val\_loss: 0.8342 - val\_categorical\_accuracy: 0.7014 - lr: 1.0000e-05  Epoch 26/2000  83/83 [==============================] - 9s 114ms/step - loss: 0.4943 - categorical\_accuracy: 0.8283 - val\_loss: 0.7753 - val\_categorical\_accuracy: 0.7222 - lr: 1.0000e-05  Epoch 27/2000  83/83 [==============================] - 9s 114ms/step - loss: 0.4836 - categorical\_accuracy: 0.8291 - val\_loss: 0.7421 - val\_categorical\_accuracy: 0.7361 - lr: 1.0000e-05  Epoch 28/2000  83/83 [==============================] - 10s 114ms/step - loss: 0.4380 - categorical\_accuracy: 0.8464 - val\_loss: 0.6893 - val\_categorical\_accuracy: 0.7500 - lr: 1.0000e-05  Epoch 29/2000  83/83 [==============================] - 10s 114ms/step - loss: 0.4082 - categorical\_accuracy: 0.8592 - val\_loss: 0.6805 - val\_categorical\_accuracy: 0.7292 - lr: 1.0000e-05  Epoch 30/2000  83/83 [==============================] - 9s 114ms/step - loss: 0.3832 - categorical\_accuracy: 0.8727 - val\_loss: 0.6220 - val\_categorical\_accuracy: 0.7639 - lr: 1.0000e-05  Epoch 31/2000  83/83 [==============================] - 10s 115ms/step - loss: 0.3593 - categorical\_accuracy: 0.8697 - val\_loss: 0.6119 - val\_categorical\_accuracy: 0.7917 - lr: 1.0000e-05  Epoch 32/2000  83/83 [==============================] - 9s 113ms/step - loss: 0.3272 - categorical\_accuracy: 0.8893 - val\_loss: 0.5834 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-05  Epoch 33/2000  83/83 [==============================] - 9s 113ms/step - loss: 0.3295 - categorical\_accuracy: 0.8840 - val\_loss: 0.5909 - val\_categorical\_accuracy: 0.8056 - lr: 1.0000e-05  Epoch 34/2000  83/83 [==============================] - 10s 115ms/step - loss: 0.2836 - categorical\_accuracy: 0.8968 - val\_loss: 0.5211 - val\_categorical\_accuracy: 0.8403 - lr: 1.0000e-05  Epoch 35/2000  83/83 [==============================] - 9s 113ms/step - loss: 0.2680 - categorical\_accuracy: 0.9081 - val\_loss: 0.5915 - val\_categorical\_accuracy: 0.8056 - lr: 1.0000e-05  Epoch 36/2000  83/83 [==============================] - 9s 114ms/step - loss: 0.2511 - categorical\_accuracy: 0.9194 - val\_loss: 0.5579 - val\_categorical\_accuracy: 0.8264 - lr: 1.0000e-05  Epoch 37/2000  83/83 [==============================] - 10s 115ms/step - loss: 0.2461 - categorical\_accuracy: 0.9157 - val\_loss: 0.6141 - val\_categorical\_accuracy: 0.8333 - lr: 1.0000e-05  Epoch 38/2000  83/83 [==============================] - 10s 115ms/step - loss: 0.2438 - categorical\_accuracy: 0.9157 - val\_loss: 0.6692 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-05  Epoch 39/2000  83/83 [==============================] - 10s 114ms/step - loss: 0.2323 - categorical\_accuracy: 0.9172 - val\_loss: 0.6237 - val\_categorical\_accuracy: 0.8056 - lr: 1.0000e-05  Epoch 40/2000  83/83 [==============================] - 10s 115ms/step - loss: 0.2200 - categorical\_accuracy: 0.9300 - val\_loss: 0.5846 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-05  Epoch 41/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1923 - categorical\_accuracy: 0.9360 - val\_loss: 0.7085 - val\_categorical\_accuracy: 0.8125 - lr: 1.0000e-05  Epoch 42/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1836 - categorical\_accuracy: 0.9390 - val\_loss: 0.7241 - val\_categorical\_accuracy: 0.7986 - lr: 1.0000e-05  Epoch 43/2000  83/83 [==============================] - 10s 115ms/step - loss: 0.1861 - categorical\_accuracy: 0.9375 - val\_loss: 0.5598 - val\_categorical\_accuracy: 0.8611 - lr: 1.0000e-05  Epoch 44/2000  83/83 [==============================] - ETA: 0s - loss: 0.1670 - categorical\_accuracy: 0.9465  Epoch 00044: ReduceLROnPlateau reducing learning rate to 9.999999747378752e-07.  83/83 [==============================] - 10s 115ms/step - loss: 0.1670 - categorical\_accuracy: 0.9465 - val\_loss: 0.5594 - val\_categorical\_accuracy: 0.8403 - lr: 1.0000e-05  Epoch 45/2000  83/83 [==============================] - 9s 114ms/step - loss: 0.1591 - categorical\_accuracy: 0.9495 - val\_loss: 0.5089 - val\_categorical\_accuracy: 0.8889 - lr: 1.0000e-06  Epoch 46/2000  83/83 [==============================] - 10s 114ms/step - loss: 0.1343 - categorical\_accuracy: 0.9578 - val\_loss: 0.4994 - val\_categorical\_accuracy: 0.8889 - lr: 1.0000e-06  Epoch 47/2000  83/83 [==============================] - 10s 114ms/step - loss: 0.1394 - categorical\_accuracy: 0.9556 - val\_loss: 0.5040 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-06  Epoch 48/2000  83/83 [==============================] - 10s 114ms/step - loss: 0.1396 - categorical\_accuracy: 0.9616 - val\_loss: 0.5041 - val\_categorical\_accuracy: 0.8889 - lr: 1.0000e-06  Epoch 49/2000  83/83 [==============================] - 9s 114ms/step - loss: 0.1413 - categorical\_accuracy: 0.9541 - val\_loss: 0.5072 - val\_categorical\_accuracy: 0.8958 - lr: 1.0000e-06  Epoch 50/2000  82/83 [============================>.] - ETA: 0s - loss: 0.1296 - categorical\_accuracy: 0.9596INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-0050.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7fbe29e11810> has the same name 'LSTM' as a built-in Keras object. Consider renaming <class 'keras.layers.recurrent.LSTM'> to avoid naming conflicts when loading with `tf.keras.models.load\_model`. If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  WARNING:absl:<keras.layers.recurrent.LSTMCell object at 0x7fbe1e8f20d0> has the same name 'LSTMCell' as a built-in Keras object. Consider renaming <class 'keras.layers.recurrent.LSTMCell'> to avoid naming conflicts when loading with `tf.keras.models.load\_model`. If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 179ms/step - loss: 0.1287 - categorical\_accuracy: 0.9601 - val\_loss: 0.5214 - val\_categorical\_accuracy: 0.8750 - lr: 1.0000e-06  Epoch 51/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1333 - categorical\_accuracy: 0.9631 - val\_loss: 0.5193 - val\_categorical\_accuracy: 0.8889 - lr: 1.0000e-06  Epoch 52/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1259 - categorical\_accuracy: 0.9616 - val\_loss: 0.5214 - val\_categorical\_accuracy: 0.8958 - lr: 1.0000e-06  Epoch 53/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1199 - categorical\_accuracy: 0.9593 - val\_loss: 0.5188 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-06  Epoch 54/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1202 - categorical\_accuracy: 0.9646 - val\_loss: 0.5254 - val\_categorical\_accuracy: 0.8750 - lr: 1.0000e-06  Epoch 55/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1342 - categorical\_accuracy: 0.9631 - val\_loss: 0.5173 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-06  Epoch 56/2000  83/83 [==============================] - ETA: 0s - loss: 0.1173 - categorical\_accuracy: 0.9676  Epoch 00056: ReduceLROnPlateau reducing learning rate to 9.999999974752428e-08.  83/83 [==============================] - 10s 116ms/step - loss: 0.1173 - categorical\_accuracy: 0.9676 - val\_loss: 0.5142 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-06  Epoch 57/2000  83/83 [==============================] - 10s 115ms/step - loss: 0.1143 - categorical\_accuracy: 0.9706 - val\_loss: 0.5134 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-07  Epoch 58/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1202 - categorical\_accuracy: 0.9623 - val\_loss: 0.5135 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-07  Epoch 59/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1161 - categorical\_accuracy: 0.9691 - val\_loss: 0.5145 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-07  Epoch 60/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1163 - categorical\_accuracy: 0.9676 - val\_loss: 0.5141 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-07  Epoch 61/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1166 - categorical\_accuracy: 0.9646 - val\_loss: 0.5142 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-07  Epoch 62/2000  83/83 [==============================] - 10s 115ms/step - loss: 0.1223 - categorical\_accuracy: 0.9556 - val\_loss: 0.5151 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-07  Epoch 63/2000  83/83 [==============================] - 10s 115ms/step - loss: 0.1129 - categorical\_accuracy: 0.9669 - val\_loss: 0.5169 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-07  Epoch 64/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1154 - categorical\_accuracy: 0.9646 - val\_loss: 0.5169 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-07  Epoch 65/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1241 - categorical\_accuracy: 0.9684 - val\_loss: 0.5177 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-07  Epoch 66/2000  83/83 [==============================] - ETA: 0s - loss: 0.1205 - categorical\_accuracy: 0.9623  Epoch 00066: ReduceLROnPlateau reducing learning rate to 1.0000000116860975e-08.  83/83 [==============================] - 10s 116ms/step - loss: 0.1205 - categorical\_accuracy: 0.9623 - val\_loss: 0.5161 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-07  Epoch 67/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1274 - categorical\_accuracy: 0.9639 - val\_loss: 0.5162 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-08  Epoch 68/2000  83/83 [==============================] - 10s 115ms/step - loss: 0.1023 - categorical\_accuracy: 0.9699 - val\_loss: 0.5161 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-08  Epoch 69/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1094 - categorical\_accuracy: 0.9736 - val\_loss: 0.5163 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-08  Epoch 70/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1147 - categorical\_accuracy: 0.9714 - val\_loss: 0.5163 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-08  Epoch 71/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1331 - categorical\_accuracy: 0.9586 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-08  Epoch 72/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1152 - categorical\_accuracy: 0.9646 - val\_loss: 0.5163 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-08  Epoch 73/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1251 - categorical\_accuracy: 0.9586 - val\_loss: 0.5163 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-08  Epoch 74/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1164 - categorical\_accuracy: 0.9601 - val\_loss: 0.5163 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-08  Epoch 75/2000  83/83 [==============================] - 10s 115ms/step - loss: 0.1203 - categorical\_accuracy: 0.9729 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-08  Epoch 76/2000  83/83 [==============================] - ETA: 0s - loss: 0.1224 - categorical\_accuracy: 0.9646  Epoch 00076: ReduceLROnPlateau reducing learning rate to 9.999999939225292e-10.  83/83 [==============================] - 10s 117ms/step - loss: 0.1224 - categorical\_accuracy: 0.9646 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-08  Epoch 77/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1158 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-09  Epoch 78/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1166 - categorical\_accuracy: 0.9699 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-09  Epoch 79/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1116 - categorical\_accuracy: 0.9676 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-09  Epoch 80/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1072 - categorical\_accuracy: 0.9706 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-09  Epoch 81/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1187 - categorical\_accuracy: 0.9616 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-09  Epoch 82/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1141 - categorical\_accuracy: 0.9669 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-09  Epoch 83/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1149 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-09  Epoch 84/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1198 - categorical\_accuracy: 0.9593 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-09  Epoch 85/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1285 - categorical\_accuracy: 0.9646 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-09  Epoch 86/2000  83/83 [==============================] - ETA: 0s - loss: 0.1069 - categorical\_accuracy: 0.9714  Epoch 00086: ReduceLROnPlateau reducing learning rate to 9.999999717180686e-11.  83/83 [==============================] - 10s 117ms/step - loss: 0.1069 - categorical\_accuracy: 0.9714 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-09  Epoch 87/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1251 - categorical\_accuracy: 0.9601 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-10  Epoch 88/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1148 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-10  Epoch 89/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1133 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-10  Epoch 90/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1281 - categorical\_accuracy: 0.9616 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-10  Epoch 91/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1198 - categorical\_accuracy: 0.9646 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-10  Epoch 92/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1173 - categorical\_accuracy: 0.9608 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-10  Epoch 93/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1173 - categorical\_accuracy: 0.9646 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-10  Epoch 94/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1095 - categorical\_accuracy: 0.9699 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-10  Epoch 95/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1158 - categorical\_accuracy: 0.9706 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-10  Epoch 96/2000  83/83 [==============================] - ETA: 0s - loss: 0.1172 - categorical\_accuracy: 0.9646  Epoch 00096: ReduceLROnPlateau reducing learning rate to 9.99999943962493e-12.  83/83 [==============================] - 10s 118ms/step - loss: 0.1172 - categorical\_accuracy: 0.9646 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-10  Epoch 97/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1193 - categorical\_accuracy: 0.9631 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-11  Epoch 98/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1186 - categorical\_accuracy: 0.9639 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-11  Epoch 99/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1302 - categorical\_accuracy: 0.9601 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-11  Epoch 100/2000  82/83 [============================>.] - ETA: 0s - loss: 0.1223 - categorical\_accuracy: 0.9642INFO: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 0x7fbe29e11810> has the same name 'LSTM' as a built-in Keras object. Consider renaming <class 'keras.layers.recurrent.LSTM'> to avoid naming conflicts when loading with `tf.keras.models.load\_model`. If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  WARNING:absl:<keras.layers.recurrent.LSTMCell object at 0x7fbe1e8f20d0> has the same name 'LSTMCell' as a built-in Keras object. Consider renaming <class 'keras.layers.recurrent.LSTMCell'> to avoid naming conflicts when loading with `tf.keras.models.load\_model`. If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 175ms/step - loss: 0.1231 - categorical\_accuracy: 0.9631 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-11  Epoch 101/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1195 - categorical\_accuracy: 0.9646 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-11  Epoch 102/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1264 - categorical\_accuracy: 0.9586 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-11  Epoch 103/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1184 - categorical\_accuracy: 0.9608 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-11  Epoch 104/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1186 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-11  Epoch 105/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1133 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-11  Epoch 106/2000  83/83 [==============================] - ETA: 0s - loss: 0.1215 - categorical\_accuracy: 0.9654  Epoch 00106: ReduceLROnPlateau reducing learning rate to 9.999999092680235e-13.  83/83 [==============================] - 10s 118ms/step - loss: 0.1215 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-11  Epoch 107/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1204 - categorical\_accuracy: 0.9623 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-12  Epoch 108/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1240 - categorical\_accuracy: 0.9601 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-12  Epoch 109/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1223 - categorical\_accuracy: 0.9601 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-12  Epoch 110/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1145 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-12  Epoch 111/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1182 - categorical\_accuracy: 0.9691 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-12  Epoch 112/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1172 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-12  Epoch 113/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1078 - categorical\_accuracy: 0.9752 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-12  Epoch 114/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1250 - categorical\_accuracy: 0.9578 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-12  Epoch 115/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1226 - categorical\_accuracy: 0.9646 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-12  Epoch 116/2000  83/83 [==============================] - ETA: 0s - loss: 0.1260 - categorical\_accuracy: 0.9639  Epoch 00116: ReduceLROnPlateau reducing learning rate to 9.9999988758398e-14.  83/83 [==============================] - 10s 116ms/step - loss: 0.1260 - categorical\_accuracy: 0.9639 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-12  Epoch 117/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1129 - categorical\_accuracy: 0.9669 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-13  Epoch 118/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1161 - categorical\_accuracy: 0.9631 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-13  Epoch 119/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1121 - categorical\_accuracy: 0.9706 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-13  Epoch 120/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1134 - categorical\_accuracy: 0.9691 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-13  Epoch 121/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1126 - categorical\_accuracy: 0.9669 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-13  Epoch 122/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1067 - categorical\_accuracy: 0.9669 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-13  Epoch 123/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1279 - categorical\_accuracy: 0.9578 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-13  Epoch 124/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1314 - categorical\_accuracy: 0.9571 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-13  Epoch 125/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1209 - categorical\_accuracy: 0.9646 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-13  Epoch 126/2000  83/83 [==============================] - ETA: 0s - loss: 0.1189 - categorical\_accuracy: 0.9631  Epoch 00126: ReduceLROnPlateau reducing learning rate to 9.999999146890344e-15.  83/83 [==============================] - 10s 117ms/step - loss: 0.1189 - categorical\_accuracy: 0.9631 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-13  Epoch 127/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1203 - categorical\_accuracy: 0.9608 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-14  Epoch 128/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1068 - categorical\_accuracy: 0.9714 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-14  Epoch 129/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1188 - categorical\_accuracy: 0.9676 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-14  Epoch 130/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1103 - categorical\_accuracy: 0.9691 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-14  Epoch 131/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1265 - categorical\_accuracy: 0.9563 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-14  Epoch 132/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1063 - categorical\_accuracy: 0.9729 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-14  Epoch 133/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1322 - categorical\_accuracy: 0.9578 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-14  Epoch 134/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1064 - categorical\_accuracy: 0.9752 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-14  Epoch 135/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1250 - categorical\_accuracy: 0.9601 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-14  Epoch 136/2000  83/83 [==============================] - ETA: 0s - loss: 0.1202 - categorical\_accuracy: 0.9616  Epoch 00136: ReduceLROnPlateau reducing learning rate to 9.999998977483753e-16.  83/83 [==============================] - 10s 119ms/step - loss: 0.1202 - categorical\_accuracy: 0.9616 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-14  Epoch 137/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1087 - categorical\_accuracy: 0.9721 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-15  Epoch 138/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1238 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-15  Epoch 139/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1192 - categorical\_accuracy: 0.9669 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-15  Epoch 140/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1160 - categorical\_accuracy: 0.9714 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-15  Epoch 141/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1089 - categorical\_accuracy: 0.9721 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-15  Epoch 142/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1082 - categorical\_accuracy: 0.9729 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-15  Epoch 143/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1202 - categorical\_accuracy: 0.9623 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-15  Epoch 144/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1195 - categorical\_accuracy: 0.9623 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-15  Epoch 145/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1099 - categorical\_accuracy: 0.9676 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-15  Epoch 146/2000  83/83 [==============================] - ETA: 0s - loss: 0.1057 - categorical\_accuracy: 0.9691  Epoch 00146: ReduceLROnPlateau reducing learning rate to 9.999998977483754e-17.  83/83 [==============================] - 10s 117ms/step - loss: 0.1057 - categorical\_accuracy: 0.9691 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-15  Epoch 147/2000  83/83 [==============================] - 10s 115ms/step - loss: 0.1161 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-16  Epoch 148/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1144 - categorical\_accuracy: 0.9721 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-16  Epoch 149/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1194 - categorical\_accuracy: 0.9631 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-16  Epoch 150/2000  82/83 [============================>.] - ETA: 0s - loss: 0.1119 - categorical\_accuracy: 0.9680INFO: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 0x7fbe29e11810> has the same name 'LSTM' as a built-in Keras object. Consider renaming <class 'keras.layers.recurrent.LSTM'> to avoid naming conflicts when loading with `tf.keras.models.load\_model`. If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  WARNING:absl:<keras.layers.recurrent.LSTMCell object at 0x7fbe1e8f20d0> has the same name 'LSTMCell' as a built-in Keras object. Consider renaming <class 'keras.layers.recurrent.LSTMCell'> to avoid naming conflicts when loading with `tf.keras.models.load\_model`. If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 181ms/step - loss: 0.1119 - categorical\_accuracy: 0.9676 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-16  Epoch 151/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1197 - categorical\_accuracy: 0.9669 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-16  Epoch 152/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1179 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-16  Epoch 153/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1266 - categorical\_accuracy: 0.9616 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-16  Epoch 154/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1178 - categorical\_accuracy: 0.9691 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-16  Epoch 155/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1170 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-16  Epoch 156/2000  83/83 [==============================] - ETA: 0s - loss: 0.1183 - categorical\_accuracy: 0.9684  Epoch 00156: ReduceLROnPlateau reducing learning rate to 9.999998845134856e-18.  83/83 [==============================] - 10s 116ms/step - loss: 0.1183 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-16  Epoch 157/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1153 - categorical\_accuracy: 0.9691 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-17  Epoch 158/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1294 - categorical\_accuracy: 0.9631 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-17  Epoch 159/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1034 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-17  Epoch 160/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1178 - categorical\_accuracy: 0.9669 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-17  Epoch 161/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1184 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-17  Epoch 162/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1256 - categorical\_accuracy: 0.9623 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-17  Epoch 163/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1236 - categorical\_accuracy: 0.9608 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-17  Epoch 164/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1045 - categorical\_accuracy: 0.9714 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-17  Epoch 165/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1198 - categorical\_accuracy: 0.9616 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-17  Epoch 166/2000  83/83 [==============================] - ETA: 0s - loss: 0.1099 - categorical\_accuracy: 0.9706  Epoch 00166: ReduceLROnPlateau reducing learning rate to 9.999999010570977e-19.  83/83 [==============================] - 10s 118ms/step - loss: 0.1099 - categorical\_accuracy: 0.9706 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-17  Epoch 167/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1215 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-18  Epoch 168/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1199 - categorical\_accuracy: 0.9639 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-18  Epoch 169/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1210 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-18  Epoch 170/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1112 - categorical\_accuracy: 0.9699 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-18  Epoch 171/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1294 - categorical\_accuracy: 0.9541 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-18  Epoch 172/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1133 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-18  Epoch 173/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1215 - categorical\_accuracy: 0.9608 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-18  Epoch 174/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1365 - categorical\_accuracy: 0.9518 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-18  Epoch 175/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1028 - categorical\_accuracy: 0.9721 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-18  Epoch 176/2000  83/83 [==============================] - ETA: 0s - loss: 0.1223 - categorical\_accuracy: 0.9661  Epoch 00176: ReduceLROnPlateau reducing learning rate to 9.999999424161285e-20.  83/83 [==============================] - 10s 117ms/step - loss: 0.1223 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-18  Epoch 177/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1241 - categorical\_accuracy: 0.9646 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-19  Epoch 178/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1218 - categorical\_accuracy: 0.9646 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-19  Epoch 179/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1176 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-19  Epoch 180/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1199 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-19  Epoch 181/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1219 - categorical\_accuracy: 0.9578 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-19  Epoch 182/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1173 - categorical\_accuracy: 0.9586 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-19  Epoch 183/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1161 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-19  Epoch 184/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1093 - categorical\_accuracy: 0.9691 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-19  Epoch 185/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1153 - categorical\_accuracy: 0.9669 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-19  Epoch 186/2000  83/83 [==============================] - ETA: 0s - loss: 0.1100 - categorical\_accuracy: 0.9684  Epoch 00186: ReduceLROnPlateau reducing learning rate to 9.999999682655225e-21.  83/83 [==============================] - 10s 118ms/step - loss: 0.1100 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-19  Epoch 187/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1382 - categorical\_accuracy: 0.9586 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-20  Epoch 188/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1301 - categorical\_accuracy: 0.9601 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-20  Epoch 189/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1176 - categorical\_accuracy: 0.9646 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-20  Epoch 190/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1238 - categorical\_accuracy: 0.9586 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-20  Epoch 191/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1218 - categorical\_accuracy: 0.9639 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-20  Epoch 192/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1146 - categorical\_accuracy: 0.9699 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-20  Epoch 193/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1113 - categorical\_accuracy: 0.9699 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-20  Epoch 194/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1175 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-20  Epoch 195/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1151 - categorical\_accuracy: 0.9639 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-20  Epoch 196/2000  83/83 [==============================] - ETA: 0s - loss: 0.1167 - categorical\_accuracy: 0.9661  Epoch 00196: ReduceLROnPlateau reducing learning rate to 9.999999682655225e-22.  83/83 [==============================] - 10s 118ms/step - loss: 0.1167 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-20  Epoch 197/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1044 - categorical\_accuracy: 0.9736 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-21  Epoch 198/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1278 - categorical\_accuracy: 0.9623 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-21  Epoch 199/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1156 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-21  Epoch 200/2000  82/83 [============================>.] - ETA: 0s - loss: 0.1233 - categorical\_accuracy: 0.9619INFO: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 0x7fbe29e11810> has the same name 'LSTM' as a built-in Keras object. Consider renaming <class 'keras.layers.recurrent.LSTM'> to avoid naming conflicts when loading with `tf.keras.models.load\_model`. If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  WARNING:absl:<keras.layers.recurrent.LSTMCell object at 0x7fbe1e8f20d0> has the same name 'LSTMCell' as a built-in Keras object. Consider renaming <class 'keras.layers.recurrent.LSTMCell'> to avoid naming conflicts when loading with `tf.keras.models.load\_model`. If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 180ms/step - loss: 0.1227 - categorical\_accuracy: 0.9623 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-21  Epoch 201/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1265 - categorical\_accuracy: 0.9639 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-21  Epoch 202/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1102 - categorical\_accuracy: 0.9699 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-21  Epoch 203/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1236 - categorical\_accuracy: 0.9669 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-21  Epoch 204/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1225 - categorical\_accuracy: 0.9616 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-21  Epoch 205/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1170 - categorical\_accuracy: 0.9616 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-21  Epoch 206/2000  83/83 [==============================] - ETA: 0s - loss: 0.1079 - categorical\_accuracy: 0.9714  Epoch 00206: ReduceLROnPlateau reducing learning rate to 9.999999682655225e-23.  83/83 [==============================] - 11s 128ms/step - loss: 0.1079 - categorical\_accuracy: 0.9714 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-21  Epoch 207/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1168 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-22  Epoch 208/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1224 - categorical\_accuracy: 0.9639 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-22  Epoch 209/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1199 - categorical\_accuracy: 0.9639 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-22  Epoch 210/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1198 - categorical\_accuracy: 0.9601 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-22  Epoch 211/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1247 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-22  Epoch 212/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1339 - categorical\_accuracy: 0.9601 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-22  Epoch 213/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1025 - categorical\_accuracy: 0.9752 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-22  Epoch 214/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1257 - categorical\_accuracy: 0.9623 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-22  Epoch 215/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1106 - categorical\_accuracy: 0.9699 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-22  Epoch 216/2000  83/83 [==============================] - ETA: 0s - loss: 0.1253 - categorical\_accuracy: 0.9593  Epoch 00216: ReduceLROnPlateau reducing learning rate to 9.999999682655227e-24.  83/83 [==============================] - 10s 118ms/step - loss: 0.1253 - categorical\_accuracy: 0.9593 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-22  Epoch 217/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1141 - categorical\_accuracy: 0.9676 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-23  Epoch 218/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1127 - categorical\_accuracy: 0.9691 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-23  Epoch 219/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1271 - categorical\_accuracy: 0.9586 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-23  Epoch 220/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1236 - categorical\_accuracy: 0.9601 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-23  Epoch 221/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1231 - categorical\_accuracy: 0.9608 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-23  Epoch 222/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1157 - categorical\_accuracy: 0.9676 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-23  Epoch 223/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1222 - categorical\_accuracy: 0.9631 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-23  Epoch 224/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1151 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-23  Epoch 225/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1096 - categorical\_accuracy: 0.9714 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-23  Epoch 226/2000  83/83 [==============================] - ETA: 0s - loss: 0.1158 - categorical\_accuracy: 0.9684  Epoch 00226: ReduceLROnPlateau reducing learning rate to 9.999999998199588e-25.  83/83 [==============================] - 10s 118ms/step - loss: 0.1158 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-23  Epoch 227/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1228 - categorical\_accuracy: 0.9631 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-24  Epoch 228/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1174 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-24  Epoch 229/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1130 - categorical\_accuracy: 0.9691 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-24  Epoch 230/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1153 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-24  Epoch 231/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1221 - categorical\_accuracy: 0.9601 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-24  Epoch 232/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1152 - categorical\_accuracy: 0.9616 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-24  Epoch 233/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1190 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-24  Epoch 234/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1246 - categorical\_accuracy: 0.9608 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-24  Epoch 235/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1199 - categorical\_accuracy: 0.9639 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-24  Epoch 236/2000  83/83 [==============================] - ETA: 0s - loss: 0.1161 - categorical\_accuracy: 0.9646  Epoch 00236: ReduceLROnPlateau reducing learning rate to 1.0000000195414814e-25.  83/83 [==============================] - 10s 118ms/step - loss: 0.1161 - categorical\_accuracy: 0.9646 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-24  Epoch 237/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1351 - categorical\_accuracy: 0.9608 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-25  Epoch 238/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1179 - categorical\_accuracy: 0.9616 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-25  Epoch 239/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1177 - categorical\_accuracy: 0.9706 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-25  Epoch 240/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1205 - categorical\_accuracy: 0.9631 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-25  Epoch 241/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1210 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-25  Epoch 242/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1109 - categorical\_accuracy: 0.9721 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-25  Epoch 243/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1201 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-25  Epoch 244/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1197 - categorical\_accuracy: 0.9593 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-25  Epoch 245/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1084 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-25  Epoch 246/2000  83/83 [==============================] - ETA: 0s - loss: 0.1254 - categorical\_accuracy: 0.9623  Epoch 00246: ReduceLROnPlateau reducing learning rate to 1.0000000195414814e-26.  83/83 [==============================] - 10s 118ms/step - loss: 0.1254 - categorical\_accuracy: 0.9623 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-25  Epoch 247/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1203 - categorical\_accuracy: 0.9669 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-26  Epoch 248/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1192 - categorical\_accuracy: 0.9616 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-26  Epoch 249/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1238 - categorical\_accuracy: 0.9631 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-26  Epoch 250/2000  82/83 [============================>.] - ETA: 0s - loss: 0.1172 - categorical\_accuracy: 0.9688INFO: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 0x7fbe29e11810> has the same name 'LSTM' as a built-in Keras object. Consider renaming <class 'keras.layers.recurrent.LSTM'> to avoid naming conflicts when loading with `tf.keras.models.load\_model`. If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  WARNING:absl:<keras.layers.recurrent.LSTMCell object at 0x7fbe1e8f20d0> has the same name 'LSTMCell' as a built-in Keras object. Consider renaming <class 'keras.layers.recurrent.LSTMCell'> to avoid naming conflicts when loading with `tf.keras.models.load\_model`. If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 176ms/step - loss: 0.1166 - categorical\_accuracy: 0.9691 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-26  Epoch 251/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1215 - categorical\_accuracy: 0.9631 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-26  Epoch 252/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1112 - categorical\_accuracy: 0.9714 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-26  Epoch 253/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1233 - categorical\_accuracy: 0.9563 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-26  Epoch 254/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1156 - categorical\_accuracy: 0.9676 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-26  Epoch 255/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1083 - categorical\_accuracy: 0.9699 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-26  Epoch 256/2000  83/83 [==============================] - ETA: 0s - loss: 0.1348 - categorical\_accuracy: 0.9578  Epoch 00256: ReduceLROnPlateau reducing learning rate to 9.999999887266024e-28.  83/83 [==============================] - 10s 119ms/step - loss: 0.1348 - categorical\_accuracy: 0.9578 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-26  Epoch 257/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1235 - categorical\_accuracy: 0.9676 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-27  Epoch 258/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1266 - categorical\_accuracy: 0.9616 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-27  Epoch 259/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1205 - categorical\_accuracy: 0.9616 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-27  Epoch 260/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1109 - categorical\_accuracy: 0.9669 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-27  Epoch 261/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1168 - categorical\_accuracy: 0.9669 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-27  Epoch 262/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1094 - categorical\_accuracy: 0.9706 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-27  Epoch 263/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1192 - categorical\_accuracy: 0.9676 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-27  Epoch 264/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1098 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-27  Epoch 265/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1158 - categorical\_accuracy: 0.9631 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-27  Epoch 266/2000  83/83 [==============================] - ETA: 0s - loss: 0.1195 - categorical\_accuracy: 0.9623  Epoch 00266: ReduceLROnPlateau reducing learning rate to 1.0000000272452012e-28.  83/83 [==============================] - 10s 118ms/step - loss: 0.1195 - categorical\_accuracy: 0.9623 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-27  Epoch 267/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1239 - categorical\_accuracy: 0.9608 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-28  Epoch 268/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1253 - categorical\_accuracy: 0.9631 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-28  Epoch 269/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1213 - categorical\_accuracy: 0.9639 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-28  Epoch 270/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1154 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-28  Epoch 271/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1346 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-28  Epoch 272/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1105 - categorical\_accuracy: 0.9639 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-28  Epoch 273/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1187 - categorical\_accuracy: 0.9631 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-28  Epoch 274/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1233 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-28  Epoch 275/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1315 - categorical\_accuracy: 0.9601 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-28  Epoch 276/2000  83/83 [==============================] - ETA: 0s - loss: 0.1325 - categorical\_accuracy: 0.9623  Epoch 00276: ReduceLROnPlateau reducing learning rate to 1.0000000031710769e-29.  83/83 [==============================] - 10s 118ms/step - loss: 0.1325 - categorical\_accuracy: 0.9623 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-28  Epoch 277/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1146 - categorical\_accuracy: 0.9669 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-29  Epoch 278/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1106 - categorical\_accuracy: 0.9706 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-29  Epoch 279/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1181 - categorical\_accuracy: 0.9669 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-29  Epoch 280/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1275 - categorical\_accuracy: 0.9601 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-29  Epoch 281/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1182 - categorical\_accuracy: 0.9586 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-29  Epoch 282/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1165 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-29  Epoch 283/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1215 - categorical\_accuracy: 0.9616 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-29  Epoch 284/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1301 - categorical\_accuracy: 0.9593 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-29  Epoch 285/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1167 - categorical\_accuracy: 0.9676 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-29  Epoch 286/2000  83/83 [==============================] - ETA: 0s - loss: 0.1178 - categorical\_accuracy: 0.9639  Epoch 00286: ReduceLROnPlateau reducing learning rate to 1.0000000031710769e-30.  83/83 [==============================] - 10s 118ms/step - loss: 0.1178 - categorical\_accuracy: 0.9639 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-29  Epoch 287/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1123 - categorical\_accuracy: 0.9714 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-30  Epoch 288/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1164 - categorical\_accuracy: 0.9714 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-30  Epoch 289/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1126 - categorical\_accuracy: 0.9706 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-30  Epoch 290/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1091 - categorical\_accuracy: 0.9676 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-30  Epoch 291/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1168 - categorical\_accuracy: 0.9669 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-30  Epoch 292/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1275 - categorical\_accuracy: 0.9601 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-30  Epoch 293/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1237 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-30  Epoch 294/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1170 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-30  Epoch 295/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1153 - categorical\_accuracy: 0.9623 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-30  Epoch 296/2000  83/83 [==============================] - ETA: 0s - loss: 0.1232 - categorical\_accuracy: 0.9623  Epoch 00296: ReduceLROnPlateau reducing learning rate to 1.000000003171077e-31.  83/83 [==============================] - 10s 118ms/step - loss: 0.1232 - categorical\_accuracy: 0.9623 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-30  Epoch 297/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1150 - categorical\_accuracy: 0.9669 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-31  Epoch 298/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1227 - categorical\_accuracy: 0.9593 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-31  Epoch 299/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1203 - categorical\_accuracy: 0.9691 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-31  Epoch 300/2000  82/83 [============================>.] - ETA: 0s - loss: 0.1203 - categorical\_accuracy: 0.9680INFO: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 0x7fbe29e11810> has the same name 'LSTM' as a built-in Keras object. Consider renaming <class 'keras.layers.recurrent.LSTM'> to avoid naming conflicts when loading with `tf.keras.models.load\_model`. If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  WARNING:absl:<keras.layers.recurrent.LSTMCell object at 0x7fbe1e8f20d0> has the same name 'LSTMCell' as a built-in Keras object. Consider renaming <class 'keras.layers.recurrent.LSTMCell'> to avoid naming conflicts when loading with `tf.keras.models.load\_model`. If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 181ms/step - loss: 0.1207 - categorical\_accuracy: 0.9676 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-31  Epoch 301/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1133 - categorical\_accuracy: 0.9669 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-31  Epoch 302/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1224 - categorical\_accuracy: 0.9623 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-31  Epoch 303/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1097 - categorical\_accuracy: 0.9721 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-31  Epoch 304/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1149 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-31  Epoch 305/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1110 - categorical\_accuracy: 0.9699 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-31  Epoch 306/2000  83/83 [==============================] - ETA: 0s - loss: 0.1157 - categorical\_accuracy: 0.9623  Epoch 00306: ReduceLROnPlateau reducing learning rate to 9.999999796611899e-33.  83/83 [==============================] - 10s 117ms/step - loss: 0.1157 - categorical\_accuracy: 0.9623 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-31  Epoch 307/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1138 - categorical\_accuracy: 0.9676 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-32  Epoch 308/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1145 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-32  Epoch 309/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1178 - categorical\_accuracy: 0.9631 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-32  Epoch 310/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1100 - categorical\_accuracy: 0.9691 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-32  Epoch 311/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1170 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-32  Epoch 312/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1339 - categorical\_accuracy: 0.9586 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-32  Epoch 313/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1247 - categorical\_accuracy: 0.9639 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-32  Epoch 314/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1142 - categorical\_accuracy: 0.9699 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-32  Epoch 315/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1175 - categorical\_accuracy: 0.9616 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-32  Epoch 316/2000  83/83 [==============================] - ETA: 0s - loss: 0.1142 - categorical\_accuracy: 0.9646  Epoch 00316: ReduceLROnPlateau reducing learning rate to 9.999999502738312e-34.  83/83 [==============================] - 10s 117ms/step - loss: 0.1142 - categorical\_accuracy: 0.9646 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-32  Epoch 317/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1277 - categorical\_accuracy: 0.9639 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-33  Epoch 318/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1088 - categorical\_accuracy: 0.9646 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-33  Epoch 319/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1261 - categorical\_accuracy: 0.9623 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 1.0000e-33  Epoch 320/2000  Epoch 1850/2000  82/83 [============================>.] - ETA: 0s - loss: 0.1148 - categorical\_accuracy: 0.9657INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-1850.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-1850.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7fbe29e11810> has the same name 'LSTM' as a built-in Keras object. Consider renaming <class 'keras.layers.recurrent.LSTM'> to avoid naming conflicts when loading with `tf.keras.models.load\_model`. If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  WARNING:absl:<keras.layers.recurrent.LSTMCell object at 0x7fbe1e8f20d0> has the same name 'LSTMCell' as a built-in Keras object. Consider renaming <class 'keras.layers.recurrent.LSTMCell'> to avoid naming conflicts when loading with `tf.keras.models.load\_model`. If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 181ms/step - loss: 0.1152 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1851/2000  83/83 [==============================] - 10s 123ms/step - loss: 0.1042 - categorical\_accuracy: 0.9759 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1852/2000  83/83 [==============================] - 10s 122ms/step - loss: 0.1218 - categorical\_accuracy: 0.9631 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1853/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1226 - categorical\_accuracy: 0.9616 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1854/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1142 - categorical\_accuracy: 0.9691 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1855/2000  83/83 [==============================] - 10s 122ms/step - loss: 0.1222 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1856/2000  83/83 [==============================] - 10s 122ms/step - loss: 0.1227 - categorical\_accuracy: 0.9623 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1857/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1235 - categorical\_accuracy: 0.9706 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1858/2000  83/83 [==============================] - 10s 122ms/step - loss: 0.1228 - categorical\_accuracy: 0.9623 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1859/2000  83/83 [==============================] - 10s 122ms/step - loss: 0.1242 - categorical\_accuracy: 0.9563 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1860/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1172 - categorical\_accuracy: 0.9639 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1861/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1157 - categorical\_accuracy: 0.9646 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1862/2000  83/83 [==============================] - 10s 122ms/step - loss: 0.1186 - categorical\_accuracy: 0.9631 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1863/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1231 - categorical\_accuracy: 0.9593 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1864/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1147 - categorical\_accuracy: 0.9699 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1865/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1159 - categorical\_accuracy: 0.9691 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1866/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1245 - categorical\_accuracy: 0.9586 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1867/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1222 - categorical\_accuracy: 0.9631 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1868/2000  83/83 [==============================] - 10s 124ms/step - loss: 0.1125 - categorical\_accuracy: 0.9669 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1869/2000  83/83 [==============================] - 10s 122ms/step - loss: 0.1311 - categorical\_accuracy: 0.9601 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1870/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1106 - categorical\_accuracy: 0.9676 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1871/2000  83/83 [==============================] - 10s 122ms/step - loss: 0.1275 - categorical\_accuracy: 0.9593 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1872/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1296 - categorical\_accuracy: 0.9593 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1873/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1098 - categorical\_accuracy: 0.9691 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1874/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1310 - categorical\_accuracy: 0.9623 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1875/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1224 - categorical\_accuracy: 0.9601 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1876/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1181 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1877/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1272 - categorical\_accuracy: 0.9623 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1878/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1200 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1879/2000  83/83 [==============================] - 10s 122ms/step - loss: 0.1188 - categorical\_accuracy: 0.9631 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1880/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1061 - categorical\_accuracy: 0.9714 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1881/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1201 - categorical\_accuracy: 0.9623 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1882/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1189 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1883/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1232 - categorical\_accuracy: 0.9616 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1884/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1140 - categorical\_accuracy: 0.9676 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1885/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1128 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1886/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1208 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1887/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1187 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1888/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1203 - categorical\_accuracy: 0.9623 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1889/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1139 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1890/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1091 - categorical\_accuracy: 0.9699 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1891/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1143 - categorical\_accuracy: 0.9714 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1892/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1296 - categorical\_accuracy: 0.9593 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1893/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1050 - categorical\_accuracy: 0.9721 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1894/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1406 - categorical\_accuracy: 0.9563 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1895/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1226 - categorical\_accuracy: 0.9593 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1896/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1274 - categorical\_accuracy: 0.9616 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1897/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1376 - categorical\_accuracy: 0.9541 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1898/2000  83/83 [==============================] - 10s 124ms/step - loss: 0.1190 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1899/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1143 - categorical\_accuracy: 0.9676 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1900/2000  82/83 [============================>.] - ETA: 0s - loss: 0.1167 - categorical\_accuracy: 0.9657INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-1900.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-1900.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7fbe29e11810> has the same name 'LSTM' as a built-in Keras object. Consider renaming <class 'keras.layers.recurrent.LSTM'> to avoid naming conflicts when loading with `tf.keras.models.load\_model`. If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  WARNING:absl:<keras.layers.recurrent.LSTMCell object at 0x7fbe1e8f20d0> has the same name 'LSTMCell' as a built-in Keras object. Consider renaming <class 'keras.layers.recurrent.LSTMCell'> to avoid naming conflicts when loading with `tf.keras.models.load\_model`. If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 184ms/step - loss: 0.1162 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1901/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1243 - categorical\_accuracy: 0.9669 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1902/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1287 - categorical\_accuracy: 0.9578 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1903/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1200 - categorical\_accuracy: 0.9631 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1904/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1142 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1905/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1182 - categorical\_accuracy: 0.9646 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1906/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1207 - categorical\_accuracy: 0.9616 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1907/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1187 - categorical\_accuracy: 0.9616 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1908/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1162 - categorical\_accuracy: 0.9691 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1909/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1068 - categorical\_accuracy: 0.9721 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1910/2000  83/83 [==============================] - 10s 118ms/step - loss: 0.1188 - categorical\_accuracy: 0.9639 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1911/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1166 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1912/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1251 - categorical\_accuracy: 0.9631 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1913/2000  83/83 [==============================] - 10s 115ms/step - loss: 0.1216 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1914/2000  83/83 [==============================] - 10s 117ms/step - loss: 0.1179 - categorical\_accuracy: 0.9631 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1915/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1167 - categorical\_accuracy: 0.9631 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1916/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1242 - categorical\_accuracy: 0.9646 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1917/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1137 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1918/2000  83/83 [==============================] - 10s 115ms/step - loss: 0.1145 - categorical\_accuracy: 0.9699 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1919/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1282 - categorical\_accuracy: 0.9616 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1920/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1228 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1921/2000  83/83 [==============================] - 10s 116ms/step - loss: 0.1135 - categorical\_accuracy: 0.9691 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1922/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1250 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1923/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1154 - categorical\_accuracy: 0.9729 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1924/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1149 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1925/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1063 - categorical\_accuracy: 0.9691 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1926/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1222 - categorical\_accuracy: 0.9639 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1927/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1225 - categorical\_accuracy: 0.9714 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1928/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1111 - categorical\_accuracy: 0.9646 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1929/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1208 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1930/2000  83/83 [==============================] - 10s 124ms/step - loss: 0.1139 - categorical\_accuracy: 0.9706 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1931/2000  83/83 [==============================] - 10s 122ms/step - loss: 0.1177 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1932/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1221 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1933/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1286 - categorical\_accuracy: 0.9608 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1934/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1159 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1935/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1209 - categorical\_accuracy: 0.9616 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1936/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1226 - categorical\_accuracy: 0.9586 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1937/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1124 - categorical\_accuracy: 0.9669 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1938/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1179 - categorical\_accuracy: 0.9669 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1939/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1310 - categorical\_accuracy: 0.9631 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1940/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1178 - categorical\_accuracy: 0.9631 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1941/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1083 - categorical\_accuracy: 0.9691 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1942/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1180 - categorical\_accuracy: 0.9676 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1943/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1225 - categorical\_accuracy: 0.9601 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1944/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1113 - categorical\_accuracy: 0.9714 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1945/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1206 - categorical\_accuracy: 0.9623 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1946/2000  83/83 [==============================] - 10s 122ms/step - loss: 0.1118 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1947/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1267 - categorical\_accuracy: 0.9578 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1948/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1049 - categorical\_accuracy: 0.9706 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1949/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1092 - categorical\_accuracy: 0.9691 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1950/2000  82/83 [============================>.] - ETA: 0s - loss: 0.1237 - categorical\_accuracy: 0.9665INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-1950.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-1950.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7fbe29e11810> has the same name 'LSTM' as a built-in Keras object. Consider renaming <class 'keras.layers.recurrent.LSTM'> to avoid naming conflicts when loading with `tf.keras.models.load\_model`. If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  WARNING:absl:<keras.layers.recurrent.LSTMCell object at 0x7fbe1e8f20d0> has the same name 'LSTMCell' as a built-in Keras object. Consider renaming <class 'keras.layers.recurrent.LSTMCell'> to avoid naming conflicts when loading with `tf.keras.models.load\_model`. If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 16s 187ms/step - loss: 0.1231 - categorical\_accuracy: 0.9669 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1951/2000  83/83 [==============================] - 10s 123ms/step - loss: 0.1069 - categorical\_accuracy: 0.9736 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1952/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1175 - categorical\_accuracy: 0.9676 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1953/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1172 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1954/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1173 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1955/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1211 - categorical\_accuracy: 0.9631 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1956/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1144 - categorical\_accuracy: 0.9669 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1957/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1056 - categorical\_accuracy: 0.9669 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1958/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1195 - categorical\_accuracy: 0.9639 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1959/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1270 - categorical\_accuracy: 0.9586 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1960/2000  83/83 [==============================] - 10s 122ms/step - loss: 0.1155 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1961/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1144 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1962/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1168 - categorical\_accuracy: 0.9646 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1963/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1133 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1964/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1233 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1965/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1048 - categorical\_accuracy: 0.9669 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1966/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1198 - categorical\_accuracy: 0.9623 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1967/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1110 - categorical\_accuracy: 0.9676 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1968/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1249 - categorical\_accuracy: 0.9616 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1969/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1180 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1970/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1182 - categorical\_accuracy: 0.9646 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1971/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1132 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1972/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1152 - categorical\_accuracy: 0.9646 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1973/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1144 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1974/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1055 - categorical\_accuracy: 0.9744 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1975/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1261 - categorical\_accuracy: 0.9593 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1976/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1288 - categorical\_accuracy: 0.9616 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1977/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1188 - categorical\_accuracy: 0.9601 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1978/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1228 - categorical\_accuracy: 0.9706 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1979/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1176 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1980/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1289 - categorical\_accuracy: 0.9571 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1981/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1258 - categorical\_accuracy: 0.9608 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1982/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1280 - categorical\_accuracy: 0.9669 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1983/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1232 - categorical\_accuracy: 0.9578 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1984/2000  83/83 [==============================] - 10s 119ms/step - loss: 0.1174 - categorical\_accuracy: 0.9676 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1985/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1285 - categorical\_accuracy: 0.9586 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1986/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1178 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1987/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1181 - categorical\_accuracy: 0.9661 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1988/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1278 - categorical\_accuracy: 0.9646 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1989/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1192 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1990/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1184 - categorical\_accuracy: 0.9608 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1991/2000  83/83 [==============================] - 10s 122ms/step - loss: 0.1235 - categorical\_accuracy: 0.9616 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1992/2000  83/83 [==============================] - 10s 122ms/step - loss: 0.1199 - categorical\_accuracy: 0.9623 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1993/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1182 - categorical\_accuracy: 0.9684 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1994/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1237 - categorical\_accuracy: 0.9608 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1995/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1282 - categorical\_accuracy: 0.9578 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1996/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1246 - categorical\_accuracy: 0.9639 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1997/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1244 - categorical\_accuracy: 0.9571 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1998/2000  83/83 [==============================] - 10s 120ms/step - loss: 0.1162 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 1999/2000  83/83 [==============================] - 10s 121ms/step - loss: 0.1197 - categorical\_accuracy: 0.9623 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  Epoch 2000/2000  82/83 [============================>.] - ETA: 0s - loss: 0.1200 - categorical\_accuracy: 0.9649INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-2000.ckpt/assets  INFO:tensorflow:Assets written to: /content/drive/MyDrive/LookLearn/models\_dir/cp-2000.ckpt/assets  WARNING:absl:<keras.layers.recurrent.LSTM object at 0x7fbe29e11810> has the same name 'LSTM' as a built-in Keras object. Consider renaming <class 'keras.layers.recurrent.LSTM'> to avoid naming conflicts when loading with `tf.keras.models.load\_model`. If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  WARNING:absl:<keras.layers.recurrent.LSTMCell object at 0x7fbe1e8f20d0> has the same name 'LSTMCell' as a built-in Keras object. Consider renaming <class 'keras.layers.recurrent.LSTMCell'> to avoid naming conflicts when loading with `tf.keras.models.load\_model`. If renaming is not possible, pass the object in the `custom\_objects` parameter of the load function.  83/83 [==============================] - 15s 184ms/step - loss: 0.1192 - categorical\_accuracy: 0.9654 - val\_loss: 0.5164 - val\_categorical\_accuracy: 0.8819 - lr: 0.0000e+00  <keras.callbacks.History at 0x7fbe295a6650> |
| --- |