WARNING:tensorflow:From <ipython-input-22-bc21a1cc99c4>:5: Model.fit\_generator (from tensorflow.python.keras.engine.training) is deprecated and will be removed in a future version.

Instructions for updating:

Please use Model.fit, which supports generators.

Epoch 1/30

107/107 [==============================] - 569s 5s/step - loss: 0.5967 - acc: 0.6958 - val\_loss: 0.1971 - val\_acc: 0.9314

Epoch 2/30

107/107 [==============================] - 567s 5s/step - loss: 0.2954 - acc: 0.8813 - val\_loss: 0.1291 - val\_acc: 0.9540

Epoch 3/30

107/107 [==============================] - 569s 5s/step - loss: 0.2260 - acc: 0.9165 - val\_loss: 0.1253 - val\_acc: 0.9498

Epoch 4/30

107/107 [==============================] - 568s 5s/step - loss: 0.1900 - acc: 0.9261 - val\_loss: 0.0767 - val\_acc: 0.9674

Epoch 5/30

107/107 [==============================] - 557s 5s/step - loss: 0.1728 - acc: 0.9396 - val\_loss: 0.1148 - val\_acc: 0.9599

Epoch 6/30

107/107 [==============================] - 558s 5s/step - loss: 0.1798 - acc: 0.9338 - val\_loss: 0.0531 - val\_acc: 0.9791

Epoch 7/30

107/107 [==============================] - 571s 5s/step - loss: 0.1452 - acc: 0.9466 - val\_loss: 0.0648 - val\_acc: 0.9774

Epoch 8/30

107/107 [==============================] - 564s 5s/step - loss: 0.1448 - acc: 0.9492 - val\_loss: 0.0310 - val\_acc: 0.9858

Epoch 9/30

107/107 [==============================] - 568s 5s/step - loss: 0.1196 - acc: 0.9569 - val\_loss: 0.0223 - val\_acc: 0.9941

Epoch 10/30

107/107 [==============================] - 566s 5s/step - loss: 0.1252 - acc: 0.9536 - val\_loss: 0.0581 - val\_acc: 0.9774

Epoch 11/30

107/107 [==============================] - 566s 5s/step - loss: 0.1366 - acc: 0.9498 - val\_loss: 0.0318 - val\_acc: 0.9900

Epoch 12/30

107/107 [==============================] - 564s 5s/step - loss: 0.1115 - acc: 0.9573 - val\_loss: 0.0378 - val\_acc: 0.9841

Epoch 13/30

107/107 [==============================] - 563s 5s/step - loss: 0.1114 - acc: 0.9607 - val\_loss: 0.0338 - val\_acc: 0.9841

Epoch 14/30

107/107 [==============================] - 563s 5s/step - loss: 0.1044 - acc: 0.9618 - val\_loss: 0.0691 - val\_acc: 0.9699

Epoch 15/30

107/107 [==============================] - 563s 5s/step - loss: 0.1211 - acc: 0.9552 - val\_loss: 0.0294 - val\_acc: 0.9925

Epoch 16/30

107/107 [==============================] - 564s 5s/step - loss: 0.1137 - acc: 0.9569 - val\_loss: 0.0685 - val\_acc: 0.9682

Epoch 17/30

107/107 [==============================] - 564s 5s/step - loss: 0.0935 - acc: 0.9639 - val\_loss: 0.0174 - val\_acc: 0.9967

Epoch 18/30

107/107 [==============================] - 557s 5s/step - loss: 0.1018 - acc: 0.9599 - val\_loss: 0.0243 - val\_acc: 0.9841

Epoch 19/30

107/107 [==============================] - 558s 5s/step - loss: 0.0896 - acc: 0.9692 - val\_loss: 0.0256 - val\_acc: 0.9858

Epoch 20/30

107/107 [==============================] - 560s 5s/step - loss: 0.1169 - acc: 0.9554 - val\_loss: 0.0253 - val\_acc: 0.9908

Epoch 21/30

107/107 [==============================] - 559s 5s/step - loss: 0.0825 - acc: 0.9718 - val\_loss: 0.0227 - val\_acc: 0.9958

Epoch 22/30

107/107 [==============================] - 559s 5s/step - loss: 0.0839 - acc: 0.9688 - val\_loss: 0.0222 - val\_acc: 0.9875

Epoch 23/30

107/107 [==============================] - 557s 5s/step - loss: 0.0825 - acc: 0.9703 - val\_loss: 0.0293 - val\_acc: 0.9883

Epoch 24/30

107/107 [==============================] - 558s 5s/step - loss: 0.0772 - acc: 0.9744 - val\_loss: 0.0182 - val\_acc: 0.9933

Epoch 25/30

107/107 [==============================] - 560s 5s/step - loss: 0.0660 - acc: 0.9771 - val\_loss: 0.1335 - val\_acc: 0.9431

Epoch 26/30

107/107 [==============================] - 560s 5s/step - loss: 0.0819 - acc: 0.9707 - val\_loss: 0.0162 - val\_acc: 0.9933

Epoch 27/30

107/107 [==============================] - 557s 5s/step - loss: 0.0697 - acc: 0.9716 - val\_loss: 0.0231 - val\_acc: 0.9908

Epoch 28/30

107/107 [==============================] - 562s 5s/step - loss: 0.0832 - acc: 0.9716 - val\_loss: 0.0249 - val\_acc: 0.9933

Epoch 29/30

107/107 [==============================] - 562s 5s/step - loss: 0.0702 - acc: 0.9767 - val\_loss: 0.0317 - val\_acc: 0.9933

Epoch 30/30

107/107 [==============================] - 564s 5s/step - loss: 0.0710 - acc: 0.9763 - val\_loss: 0.0240 - val\_acc: 0.9916