C:\Users\Gunag\PycharmProjects\AlexnetArchitecure\venv\Scripts\python.exe C:\Users\Gunag\PycharmProjects\AlexnetArchitecure\mobilenetML.py

2023-12-13 01:23:11.647293: I tensorflow/core/util/port.cc:113] oneDNN custom operations are on. You may see slightly different numerical results due to floating-point round-off errors from different computation orders. To turn them off, set the environment variable `TF_ENABLE_ONEDNN_OPTS=0`.

WARNING:tensorflow:From C:\Users\Gunag\PycharmProjects\AlexnetArchitecure\venv\Lib\site-packages\keras\src\losses.py:2976: The name tf.losses.sparse_softmax_cross_entropy is deprecated. Please use tf.compat.v1.losses.sparse_softmax_cross_entropy instead.

WARNING:tensorflow: input_shape is undefined or non-square, or rows is not in [128, 160, 192, 224]. Weights for input shape (224, 224) will be loaded as the default.

WARNING:tensorflow:From C:\Users\Gunag\PycharmProjects\AlexnetArchitecure\venv\Lib\site-packages\keras\src\backend.py:1398: The name tf.executing_eagerly_outside_functions is deprecated. Please use tf.compat.v1.executing_eagerly_outside_functions instead.

2023-12-13 01:23:13.841503: I tensorflow/core/platform/cpu_feature_guard.cc:182] This TensorFlow binary is optimized to use available CPU instructions in performance-critical operations.

To enable the following instructions: SSE SSE2 SSE3 SSE4.1 SSE4.2 AVX2 AVX_VNNI FMA, in other operations, rebuild TensorFlow with the appropriate compiler flags.

WARNING:tensorflow:From C:\Users\Gunag\PycharmProjects\AlexnetArchitecure\venv\Lib\site-packages\keras\src\layers\normalization\batch_normalization.py:979: The name tf.nn.fused batch norm is deprecated. Please use tf.compat.v1.nn.fused batch norm instead.

Found 928 images belonging to 4 classes.

Found 448 images belonging to 4 classes.

Epoch 1/10

WARNING:tensorflow:From C:\Users\Gunag\PycharmProjects\AlexnetArchitecure\venv\Lib\site-packages\keras\src\utils\tf_utils.py:492: The name tf.ragged.RaggedTensorValue is deprecated. Please use tf.compat.v1.ragged.RaggedTensorValue instead.

WARNING:tensorflow:From C:\Users\Gunag\PycharmProjects\AlexnetArchitecure\venv\Lib\site-packages\keras\src\engine\base_layer_utils.py:384: The name tf.executing_eagerly_outside_functions is deprecated. Please use tf.compat.v1.executing_eagerly_outside_functions instead.

Epoch 3/10 Epoch 4/10 Epoch 5/10 29/29 [============== - 15s 507ms/step - loss: 0.4275 - accuracy: 0.8330 Epoch 6/10 29/29 [============== - 15s 507ms/step - loss: 0.4939 - accuracy: 0.7985 Epoch 7/10 29/29 [============== - 15s 510ms/step - loss: 0.4664 - accuracy: 0.8082 Epoch 8/10 29/29 [============== - 15s 508ms/step - loss: 0.4023 - accuracy: 0.8233 Epoch 9/10 Epoch 10/10 Test Loss: 0.1387 Test Accuracy(build softmax layer): 0.9981 29/29 [=======] - 15s 505ms/step 14/14 [=======] - 7s 494ms/step Softmax Classifier Accuracy: 0.9988 SVM Classifier Accuracy: 0.8821 Naive Bayes Classifier Accuracy: 0.2299 k-NN Classifier Accuracy: 0.8501

Process finished with exit code 0

Decision Tree Classifier Accuracy: 0.9431

Random Forest Classifier Accuracy: 0.8989

Ensemble Classifier Accuracy: 0.9879

