Found 1551 images belonging to 52 classes.

Found 504 images belonging to 52 classes.

Epoch 1/200

16/16 [==============================] - 19s 1s/step - loss: 4.0590 - accuracy: 0.0117 - val\_loss: 3.9518 - val\_accuracy: 0.0179

Epoch 2/200

16/16 [==============================] - 16s 991ms/step - loss: 3.9497 - accuracy: 0.0254 - val\_loss: 3.9374 - val\_accuracy: 0.0298

Epoch 3/200

16/16 [==============================] - 15s 977ms/step - loss: 3.9224 - accuracy: 0.0404 - val\_loss: 3.8523 - val\_accuracy: 0.0337

Epoch 4/200

16/16 [==============================] - 16s 975ms/step - loss: 3.8028 - accuracy: 0.0820 - val\_loss: 3.5039 - val\_accuracy: 0.1528

Epoch 5/200

16/16 [==============================] - 15s 922ms/step - loss: 3.4861 - accuracy: 0.1172 - val\_loss: 3.0314 - val\_accuracy: 0.1984

Epoch 6/200

16/16 [==============================] - 15s 960ms/step - loss: 2.8911 - accuracy: 0.2424 - val\_loss: 2.4802 - val\_accuracy: 0.2877

Epoch 7/200

16/16 [==============================] - 17s 1s/step - loss: 2.4921 - accuracy: 0.3152 - val\_loss: 2.2350 - val\_accuracy: 0.3750

Epoch 8/200

16/16 [==============================] - 16s 1s/step - loss: 2.1323 - accuracy: 0.4082 - val\_loss: 2.1096 - val\_accuracy: 0.4028

Epoch 9/200

16/16 [==============================] - 15s 946ms/step - loss: 1.9979 - accuracy: 0.4004 - val\_loss: 1.8370 - val\_accuracy: 0.4464

Epoch 10/200

16/16 [==============================] - 15s 935ms/step - loss: 1.8937 - accuracy: 0.4590 - val\_loss: 1.7714 - val\_accuracy: 0.4464

Epoch 11/200

16/16 [==============================] - 17s 1s/step - loss: 1.8849 - accuracy: 0.4444 - val\_loss: 1.8006 - val\_accuracy: 0.4643

Epoch 12/200

16/16 [==============================] - 16s 996ms/step - loss: 1.7665 - accuracy: 0.4727 - val\_loss: 1.7329 - val\_accuracy: 0.4663

Epoch 13/200

16/16 [==============================] - 14s 872ms/step - loss: 1.6793 - accuracy: 0.4788 - val\_loss: 1.6238 - val\_accuracy: 0.5139

Epoch 14/200

16/16 [==============================] - 14s 909ms/step - loss: 1.5680 - accuracy: 0.5137 - val\_loss: 1.6046 - val\_accuracy: 0.4921

Epoch 15/200

16/16 [==============================] - 14s 894ms/step - loss: 1.5445 - accuracy: 0.5762 - val\_loss: 1.6637 - val\_accuracy: 0.5278

Epoch 16/200

16/16 [==============================] - 14s 875ms/step - loss: 1.4995 - accuracy: 0.5758 - val\_loss: 1.5694 - val\_accuracy: 0.5337

Epoch 17/200

16/16 [==============================] - 14s 904ms/step - loss: 1.3932 - accuracy: 0.5840 - val\_loss: 1.5398 - val\_accuracy: 0.5437

Epoch 18/200

16/16 [==============================] - 14s 872ms/step - loss: 1.4310 - accuracy: 0.5818 - val\_loss: 1.5391 - val\_accuracy: 0.5516

Epoch 19/200

16/16 [==============================] - 14s 870ms/step - loss: 1.3755 - accuracy: 0.5960 - val\_loss: 1.5775 - val\_accuracy: 0.5516

Epoch 20/200

16/16 [==============================] - 14s 894ms/step - loss: 1.3883 - accuracy: 0.5684 - val\_loss: 1.5008 - val\_accuracy: 0.5456

Epoch 21/200

16/16 [==============================] - 14s 875ms/step - loss: 1.2519 - accuracy: 0.6222 - val\_loss: 1.4842 - val\_accuracy: 0.5397

Epoch 22/200

16/16 [==============================] - 15s 943ms/step - loss: 1.2622 - accuracy: 0.6016 - val\_loss: 1.4795 - val\_accuracy: 0.5933

Epoch 23/200

16/16 [==============================] - 14s 873ms/step - loss: 1.3037 - accuracy: 0.5879 - val\_loss: 1.3741 - val\_accuracy: 0.5893

Epoch 24/200

16/16 [==============================] - 14s 875ms/step - loss: 1.2483 - accuracy: 0.6323 - val\_loss: 1.4106 - val\_accuracy: 0.5972

Epoch 25/200

16/16 [==============================] - 14s 894ms/step - loss: 1.2378 - accuracy: 0.6152 - val\_loss: 1.4539 - val\_accuracy: 0.5873

Epoch 26/200

16/16 [==============================] - 14s 896ms/step - loss: 1.2116 - accuracy: 0.6426 - val\_loss: 1.3646 - val\_accuracy: 0.5873

Epoch 27/200

16/16 [==============================] - 14s 896ms/step - loss: 1.0676 - accuracy: 0.6797 - val\_loss: 1.3661 - val\_accuracy: 0.6032

Epoch 28/200

16/16 [==============================] - 14s 893ms/step - loss: 1.2372 - accuracy: 0.6348 - val\_loss: 1.3316 - val\_accuracy: 0.5833

Epoch 29/200

16/16 [==============================] - 14s 896ms/step - loss: 1.0676 - accuracy: 0.6543 - val\_loss: 1.3953 - val\_accuracy: 0.5972

Epoch 30/200

16/16 [==============================] - 14s 872ms/step - loss: 1.0510 - accuracy: 0.6424 - val\_loss: 1.4345 - val\_accuracy: 0.6190

Epoch 31/200

16/16 [==============================] - 14s 906ms/step - loss: 1.0760 - accuracy: 0.6348 - val\_loss: 1.3290 - val\_accuracy: 0.6131

Epoch 32/200

16/16 [==============================] - 15s 918ms/step - loss: 1.0527 - accuracy: 0.6738 - val\_loss: 1.4627 - val\_accuracy: 0.5794

Epoch 33/200

16/16 [==============================] - 14s 900ms/step - loss: 1.0152 - accuracy: 0.6869 - val\_loss: 1.3904 - val\_accuracy: 0.6131

Epoch 34/200

16/16 [==============================] - 15s 924ms/step - loss: 1.0983 - accuracy: 0.6621 - val\_loss: 1.4203 - val\_accuracy: 0.6091

Epoch 35/200

16/16 [==============================] - 14s 895ms/step - loss: 0.9387 - accuracy: 0.6855 - val\_loss: 1.3846 - val\_accuracy: 0.6210

Epoch 36/200

16/16 [==============================] - 14s 895ms/step - loss: 1.0266 - accuracy: 0.6582 - val\_loss: 1.4003 - val\_accuracy: 0.5893

Epoch 37/200

16/16 [==============================] - 14s 899ms/step - loss: 0.9496 - accuracy: 0.7148 - val\_loss: 1.3644 - val\_accuracy: 0.6091

Epoch 38/200

16/16 [==============================] - 14s 872ms/step - loss: 0.8222 - accuracy: 0.7535 - val\_loss: 1.4859 - val\_accuracy: 0.5952

Epoch 39/200

16/16 [==============================] - 14s 892ms/step - loss: 0.9210 - accuracy: 0.6895 - val\_loss: 1.3172 - val\_accuracy: 0.6270

Epoch 40/200

16/16 [==============================] - 14s 908ms/step - loss: 0.8473 - accuracy: 0.7090 - val\_loss: 1.3620 - val\_accuracy: 0.6111

Epoch 41/200

16/16 [==============================] - 14s 881ms/step - loss: 0.8593 - accuracy: 0.7172 - val\_loss: 1.2460 - val\_accuracy: 0.6389

Epoch 42/200

16/16 [==============================] - 14s 897ms/step - loss: 0.7827 - accuracy: 0.7539 - val\_loss: 1.3527 - val\_accuracy: 0.6270

Epoch 43/200

16/16 [==============================] - 14s 894ms/step - loss: 0.8175 - accuracy: 0.7402 - val\_loss: 1.3542 - val\_accuracy: 0.6409

Epoch 44/200

16/16 [==============================] - 14s 895ms/step - loss: 0.7727 - accuracy: 0.7285 - val\_loss: 1.2999 - val\_accuracy: 0.6528

Epoch 45/200

16/16 [==============================] - 14s 896ms/step - loss: 0.8433 - accuracy: 0.7246 - val\_loss: 1.2614 - val\_accuracy: 0.6250

Epoch 46/200

16/16 [==============================] - 14s 871ms/step - loss: 0.8089 - accuracy: 0.7111 - val\_loss: 1.2600 - val\_accuracy: 0.6587

Epoch 47/200

16/16 [==============================] - 14s 876ms/step - loss: 0.7268 - accuracy: 0.7636 - val\_loss: 1.3011 - val\_accuracy: 0.6389

Epoch 48/200

16/16 [==============================] - 14s 893ms/step - loss: 0.7531 - accuracy: 0.7324 - val\_loss: 1.3381 - val\_accuracy: 0.6310

Epoch 49/200

16/16 [==============================] - 14s 898ms/step - loss: 0.7686 - accuracy: 0.7559 - val\_loss: 1.3463 - val\_accuracy: 0.6448

Epoch 50/200

16/16 [==============================] - 14s 893ms/step - loss: 0.7157 - accuracy: 0.7676 - val\_loss: 1.2042 - val\_accuracy: 0.6409

Epoch 51/200

16/16 [==============================] - 14s 893ms/step - loss: 0.6916 - accuracy: 0.7324 - val\_loss: 1.3134 - val\_accuracy: 0.6448

Epoch 52/200

16/16 [==============================] - 14s 871ms/step - loss: 0.6307 - accuracy: 0.7818 - val\_loss: 1.3021 - val\_accuracy: 0.6468

Epoch 53/200

16/16 [==============================] - 14s 894ms/step - loss: 0.7236 - accuracy: 0.7657 - val\_loss: 1.1993 - val\_accuracy: 0.6786

Epoch 54/200

16/16 [==============================] - 14s 909ms/step - loss: 0.6770 - accuracy: 0.7754 - val\_loss: 1.1491 - val\_accuracy: 0.6746

Epoch 55/200

16/16 [==============================] - 14s 871ms/step - loss: 0.6333 - accuracy: 0.7818 - val\_loss: 1.2348 - val\_accuracy: 0.6825

Epoch 56/200

16/16 [==============================] - 14s 893ms/step - loss: 0.7280 - accuracy: 0.7539 - val\_loss: 1.1874 - val\_accuracy: 0.6706

Epoch 57/200

16/16 [==============================] - 14s 877ms/step - loss: 0.6323 - accuracy: 0.7616 - val\_loss: 1.1877 - val\_accuracy: 0.6825

Epoch 58/200

16/16 [==============================] - 14s 897ms/step - loss: 0.6045 - accuracy: 0.8047 - val\_loss: 1.2058 - val\_accuracy: 0.6885

Epoch 59/200

16/16 [==============================] - 14s 895ms/step - loss: 0.6446 - accuracy: 0.7832 - val\_loss: 1.2608 - val\_accuracy: 0.6687

Epoch 60/200

16/16 [==============================] - 14s 914ms/step - loss: 0.5762 - accuracy: 0.7949 - val\_loss: 1.2381 - val\_accuracy: 0.6726

Epoch 61/200

16/16 [==============================] - 14s 893ms/step - loss: 0.5143 - accuracy: 0.8101 - val\_loss: 1.2120 - val\_accuracy: 0.6766

Epoch 62/200

16/16 [==============================] - 14s 894ms/step - loss: 0.5412 - accuracy: 0.8340 - val\_loss: 1.3352 - val\_accuracy: 0.6607

Epoch 63/200

16/16 [==============================] - 14s 875ms/step - loss: 0.5683 - accuracy: 0.8040 - val\_loss: 1.2842 - val\_accuracy: 0.6587

Epoch 64/200

16/16 [==============================] - 14s 906ms/step - loss: 0.5937 - accuracy: 0.7832 - val\_loss: 1.3071 - val\_accuracy: 0.6667

Epoch 65/200

16/16 [==============================] - 14s 883ms/step - loss: 0.5737 - accuracy: 0.7960 - val\_loss: 1.2600 - val\_accuracy: 0.6429

Epoch 66/200

16/16 [==============================] - 14s 879ms/step - loss: 0.6474 - accuracy: 0.7832 - val\_loss: 1.3146 - val\_accuracy: 0.6567

Epoch 67/200

16/16 [==============================] - 14s 880ms/step - loss: 0.5733 - accuracy: 0.7919 - val\_loss: 1.2294 - val\_accuracy: 0.6786

Epoch 68/200

16/16 [==============================] - 14s 905ms/step - loss: 0.5207 - accuracy: 0.8086 - val\_loss: 1.2925 - val\_accuracy: 0.6786

Epoch 69/200

16/16 [==============================] - 14s 897ms/step - loss: 0.5459 - accuracy: 0.8086 - val\_loss: 1.3300 - val\_accuracy: 0.6528

Epoch 70/200

16/16 [==============================] - 14s 876ms/step - loss: 0.5067 - accuracy: 0.8222 - val\_loss: 1.1824 - val\_accuracy: 0.6925

Epoch 71/200

16/16 [==============================] - 15s 922ms/step - loss: 0.4900 - accuracy: 0.8105 - val\_loss: 1.3130 - val\_accuracy: 0.6726

Epoch 72/200

16/16 [==============================] - 14s 915ms/step - loss: 0.5340 - accuracy: 0.7930 - val\_loss: 1.2787 - val\_accuracy: 0.6687

Epoch 73/200

16/16 [==============================] - 14s 893ms/step - loss: 0.5514 - accuracy: 0.8164 - val\_loss: 1.3589 - val\_accuracy: 0.6587

Epoch 74/200

16/16 [==============================] - 14s 896ms/step - loss: 0.5359 - accuracy: 0.8145 - val\_loss: 1.1882 - val\_accuracy: 0.6885

Epoch 75/200

16/16 [==============================] - 14s 897ms/step - loss: 0.4408 - accuracy: 0.8398 - val\_loss: 1.1884 - val\_accuracy: 0.6845

Epoch 76/200

16/16 [==============================] - 14s 896ms/step - loss: 0.5064 - accuracy: 0.8340 - val\_loss: 1.2219 - val\_accuracy: 0.6865

Epoch 77/200

16/16 [==============================] - 14s 872ms/step - loss: 0.4872 - accuracy: 0.8404 - val\_loss: 1.3290 - val\_accuracy: 0.6845

Epoch 78/200

16/16 [==============================] - 14s 895ms/step - loss: 0.4525 - accuracy: 0.8262 - val\_loss: 1.1760 - val\_accuracy: 0.6925

Epoch 79/200

16/16 [==============================] - 14s 866ms/step - loss: 0.4607 - accuracy: 0.8424 - val\_loss: 1.2267 - val\_accuracy: 0.6845

Epoch 80/200

16/16 [==============================] - 14s 853ms/step - loss: 0.4578 - accuracy: 0.8262 - val\_loss: 1.2758 - val\_accuracy: 0.6905

Epoch 81/200

16/16 [==============================] - 13s 851ms/step - loss: 0.4009 - accuracy: 0.8672 - val\_loss: 1.3396 - val\_accuracy: 0.6687

Epoch 82/200

16/16 [==============================] - 14s 885ms/step - loss: 0.4456 - accuracy: 0.8398 - val\_loss: 1.2920 - val\_accuracy: 0.6905

Epoch 83/200

16/16 [==============================] - 14s 895ms/step - loss: 0.4293 - accuracy: 0.8477 - val\_loss: 1.3967 - val\_accuracy: 0.6806

Epoch 84/200

16/16 [==============================] - 14s 897ms/step - loss: 0.4088 - accuracy: 0.8594 - val\_loss: 1.2797 - val\_accuracy: 0.6984

Epoch 85/200

16/16 [==============================] - 14s 894ms/step - loss: 0.4266 - accuracy: 0.8477 - val\_loss: 1.1434 - val\_accuracy: 0.6984

Epoch 86/200

16/16 [==============================] - 14s 884ms/step - loss: 0.4515 - accuracy: 0.8223 - val\_loss: 1.3171 - val\_accuracy: 0.6806

Epoch 87/200

16/16 [==============================] - 14s 893ms/step - loss: 0.4828 - accuracy: 0.8223 - val\_loss: 1.2987 - val\_accuracy: 0.7024

Epoch 88/200

16/16 [==============================] - 14s 896ms/step - loss: 0.3948 - accuracy: 0.8633 - val\_loss: 1.1804 - val\_accuracy: 0.6964

Epoch 89/200

16/16 [==============================] - 14s 896ms/step - loss: 0.3492 - accuracy: 0.8730 - val\_loss: 1.3895 - val\_accuracy: 0.6687

Epoch 90/200

16/16 [==============================] - 14s 895ms/step - loss: 0.4236 - accuracy: 0.8594 - val\_loss: 1.1600 - val\_accuracy: 0.6706

Epoch 91/200

16/16 [==============================] - 14s 880ms/step - loss: 0.3866 - accuracy: 0.8687 - val\_loss: 1.3390 - val\_accuracy: 0.6706

Epoch 92/200

16/16 [==============================] - 14s 871ms/step - loss: 0.4149 - accuracy: 0.8566 - val\_loss: 1.2830 - val\_accuracy: 0.6627

Epoch 93/200

16/16 [==============================] - 14s 898ms/step - loss: 0.3868 - accuracy: 0.8633 - val\_loss: 1.3276 - val\_accuracy: 0.6825

Epoch 94/200

16/16 [==============================] - 14s 873ms/step - loss: 0.3652 - accuracy: 0.8586 - val\_loss: 1.2215 - val\_accuracy: 0.6825

Epoch 95/200

16/16 [==============================] - 14s 906ms/step - loss: 0.3185 - accuracy: 0.8887 - val\_loss: 1.3199 - val\_accuracy: 0.6885

Epoch 96/200

16/16 [==============================] - 14s 876ms/step - loss: 0.4324 - accuracy: 0.8465 - val\_loss: 1.4517 - val\_accuracy: 0.6468

Epoch 97/200

16/16 [==============================] - 14s 874ms/step - loss: 0.4305 - accuracy: 0.8566 - val\_loss: 1.3380 - val\_accuracy: 0.6786

Epoch 98/200

16/16 [==============================] - 14s 899ms/step - loss: 0.3811 - accuracy: 0.8770 - val\_loss: 1.2848 - val\_accuracy: 0.6687

Epoch 99/200

16/16 [==============================] - 14s 898ms/step - loss: 0.3917 - accuracy: 0.8516 - val\_loss: 1.3835 - val\_accuracy: 0.6786

Epoch 100/200

16/16 [==============================] - 14s 908ms/step - loss: 0.3794 - accuracy: 0.8633 - val\_loss: 1.1757 - val\_accuracy: 0.6925

Epoch 101/200

16/16 [==============================] - 14s 905ms/step - loss: 0.3524 - accuracy: 0.8809 - val\_loss: 1.2855 - val\_accuracy: 0.6488

Epoch 102/200

16/16 [==============================] - 14s 865ms/step - loss: 0.3605 - accuracy: 0.8652 - val\_loss: 1.2977 - val\_accuracy: 0.6885

Epoch 103/200

16/16 [==============================] - 13s 833ms/step - loss: 0.3922 - accuracy: 0.8586 - val\_loss: 1.1978 - val\_accuracy: 0.7044

Epoch 104/200

16/16 [==============================] - 14s 854ms/step - loss: 0.3668 - accuracy: 0.8633 - val\_loss: 1.1731 - val\_accuracy: 0.6925

Epoch 105/200

16/16 [==============================] - 13s 835ms/step - loss: 0.2924 - accuracy: 0.9030 - val\_loss: 1.1971 - val\_accuracy: 0.6905

Epoch 106/200

16/16 [==============================] - 14s 866ms/step - loss: 0.3674 - accuracy: 0.8848 - val\_loss: 1.3027 - val\_accuracy: 0.6706

Epoch 107/200

16/16 [==============================] - 13s 853ms/step - loss: 0.3526 - accuracy: 0.8707 - val\_loss: 1.2167 - val\_accuracy: 0.6865

Epoch 108/200

16/16 [==============================] - 14s 865ms/step - loss: 0.3315 - accuracy: 0.8711 - val\_loss: 1.3304 - val\_accuracy: 0.6627

Epoch 109/200

16/16 [==============================] - 14s 891ms/step - loss: 0.3295 - accuracy: 0.8730 - val\_loss: 1.3574 - val\_accuracy: 0.6587

Epoch 110/200

16/16 [==============================] - 14s 874ms/step - loss: 0.3747 - accuracy: 0.8667 - val\_loss: 1.4014 - val\_accuracy: 0.6667

Epoch 111/200

16/16 [==============================] - 15s 929ms/step - loss: 0.3017 - accuracy: 0.8789 - val\_loss: 1.3988 - val\_accuracy: 0.6528

Epoch 112/200

16/16 [==============================] - 14s 902ms/step - loss: 0.2850 - accuracy: 0.9043 - val\_loss: 1.4907 - val\_accuracy: 0.6567

Epoch 113/200

16/16 [==============================] - 14s 874ms/step - loss: 0.3533 - accuracy: 0.8606 - val\_loss: 1.4011 - val\_accuracy: 0.6567

Epoch 114/200

16/16 [==============================] - 14s 895ms/step - loss: 0.3089 - accuracy: 0.8965 - val\_loss: 1.3802 - val\_accuracy: 0.6627

Epoch 115/200

16/16 [==============================] - 14s 875ms/step - loss: 0.3136 - accuracy: 0.8788 - val\_loss: 1.5190 - val\_accuracy: 0.6250

Epoch 116/200

16/16 [==============================] - 15s 968ms/step - loss: 0.3363 - accuracy: 0.8768 - val\_loss: 1.4407 - val\_accuracy: 0.6607

Epoch 117/200

16/16 [==============================] - 14s 900ms/step - loss: 0.2763 - accuracy: 0.8929 - val\_loss: 1.3894 - val\_accuracy: 0.6746

Epoch 118/200

16/16 [==============================] - 14s 898ms/step - loss: 0.2822 - accuracy: 0.8926 - val\_loss: 1.4512 - val\_accuracy: 0.6508

Epoch 119/200

16/16 [==============================] - 14s 876ms/step - loss: 0.2838 - accuracy: 0.8970 - val\_loss: 1.5008 - val\_accuracy: 0.6587

Epoch 120/200

16/16 [==============================] - 14s 898ms/step - loss: 0.3170 - accuracy: 0.8828 - val\_loss: 1.3222 - val\_accuracy: 0.6766

Epoch 121/200

16/16 [==============================] - 14s 897ms/step - loss: 0.2754 - accuracy: 0.8984 - val\_loss: 1.4934 - val\_accuracy: 0.6627

Epoch 122/200

16/16 [==============================] - 14s 897ms/step - loss: 0.3020 - accuracy: 0.8945 - val\_loss: 1.4832 - val\_accuracy: 0.6647

Epoch 123/200

16/16 [==============================] - 14s 896ms/step - loss: 0.2695 - accuracy: 0.8984 - val\_loss: 1.3829 - val\_accuracy: 0.6667

Epoch 124/200

16/16 [==============================] - 14s 872ms/step - loss: 0.3817 - accuracy: 0.8727 - val\_loss: 1.3735 - val\_accuracy: 0.6766

Epoch 125/200

16/16 [==============================] - 14s 906ms/step - loss: 0.2962 - accuracy: 0.8984 - val\_loss: 1.3619 - val\_accuracy: 0.6567

Epoch 126/200

16/16 [==============================] - 14s 892ms/step - loss: 0.2957 - accuracy: 0.8965 - val\_loss: 1.3610 - val\_accuracy: 0.6865

Epoch 127/200

16/16 [==============================] - 14s 914ms/step - loss: 0.3613 - accuracy: 0.8555 - val\_loss: 1.3130 - val\_accuracy: 0.6885

Epoch 128/200

16/16 [==============================] - 14s 900ms/step - loss: 0.3109 - accuracy: 0.8984 - val\_loss: 1.3849 - val\_accuracy: 0.6687

Epoch 129/200

16/16 [==============================] - 14s 895ms/step - loss: 0.3036 - accuracy: 0.8848 - val\_loss: 1.3480 - val\_accuracy: 0.6825

Epoch 130/200

16/16 [==============================] - 14s 902ms/step - loss: 0.3725 - accuracy: 0.8652 - val\_loss: 1.3387 - val\_accuracy: 0.6607

Epoch 131/200

16/16 [==============================] - 14s 895ms/step - loss: 0.2841 - accuracy: 0.9023 - val\_loss: 1.3145 - val\_accuracy: 0.6766

Epoch 132/200

16/16 [==============================] - 15s 959ms/step - loss: 0.2309 - accuracy: 0.9219 - val\_loss: 1.3966 - val\_accuracy: 0.6746

Epoch 133/200

16/16 [==============================] - 14s 895ms/step - loss: 0.2705 - accuracy: 0.9091 - val\_loss: 1.4770 - val\_accuracy: 0.6766

Epoch 134/200

16/16 [==============================] - 14s 903ms/step - loss: 0.3032 - accuracy: 0.8984 - val\_loss: 1.5215 - val\_accuracy: 0.6587

Epoch 135/200

16/16 [==============================] - 14s 907ms/step - loss: 0.2117 - accuracy: 0.9297 - val\_loss: 1.4347 - val\_accuracy: 0.6786

Epoch 136/200

16/16 [==============================] - 14s 899ms/step - loss: 0.2497 - accuracy: 0.9180 - val\_loss: 1.3463 - val\_accuracy: 0.6825

Epoch 137/200

16/16 [==============================] - 14s 897ms/step - loss: 0.2325 - accuracy: 0.9152 - val\_loss: 1.5201 - val\_accuracy: 0.6786

Epoch 138/200

16/16 [==============================] - 14s 902ms/step - loss: 0.2882 - accuracy: 0.8869 - val\_loss: 1.3091 - val\_accuracy: 0.6706

Epoch 139/200

16/16 [==============================] - 15s 949ms/step - loss: 0.2251 - accuracy: 0.9160 - val\_loss: 1.5093 - val\_accuracy: 0.6825

Epoch 140/200

16/16 [==============================] - 14s 914ms/step - loss: 0.2280 - accuracy: 0.9258 - val\_loss: 1.4681 - val\_accuracy: 0.6766

Epoch 141/200

16/16 [==============================] - 14s 895ms/step - loss: 0.2711 - accuracy: 0.8867 - val\_loss: 1.5095 - val\_accuracy: 0.6825

Epoch 142/200

16/16 [==============================] - 15s 918ms/step - loss: 0.1916 - accuracy: 0.9297 - val\_loss: 1.5635 - val\_accuracy: 0.6647

Epoch 143/200

16/16 [==============================] - 14s 898ms/step - loss: 0.2581 - accuracy: 0.9082 - val\_loss: 1.3979 - val\_accuracy: 0.6706

Epoch 144/200

16/16 [==============================] - 14s 871ms/step - loss: 0.2631 - accuracy: 0.9091 - val\_loss: 1.4934 - val\_accuracy: 0.6746

Epoch 145/200

16/16 [==============================] - 14s 873ms/step - loss: 0.2644 - accuracy: 0.9051 - val\_loss: 1.3807 - val\_accuracy: 0.6825

Epoch 146/200

16/16 [==============================] - 14s 897ms/step - loss: 0.3149 - accuracy: 0.8848 - val\_loss: 1.5392 - val\_accuracy: 0.6766

Epoch 147/200

16/16 [==============================] - 14s 895ms/step - loss: 0.2405 - accuracy: 0.9062 - val\_loss: 1.2791 - val\_accuracy: 0.6865

Epoch 148/200

16/16 [==============================] - 14s 903ms/step - loss: 0.2257 - accuracy: 0.9121 - val\_loss: 1.4279 - val\_accuracy: 0.6885

Epoch 149/200

16/16 [==============================] - 14s 871ms/step - loss: 0.2627 - accuracy: 0.8869 - val\_loss: 1.3807 - val\_accuracy: 0.6905

Epoch 150/200

16/16 [==============================] - 14s 879ms/step - loss: 0.2631 - accuracy: 0.8970 - val\_loss: 1.4388 - val\_accuracy: 0.6746

Epoch 151/200

16/16 [==============================] - 14s 896ms/step - loss: 0.2474 - accuracy: 0.9043 - val\_loss: 1.4617 - val\_accuracy: 0.6964

Epoch 152/200

16/16 [==============================] - 15s 925ms/step - loss: 0.2178 - accuracy: 0.9219 - val\_loss: 1.3187 - val\_accuracy: 0.6925

Epoch 153/200

16/16 [==============================] - 14s 894ms/step - loss: 0.2102 - accuracy: 0.9199 - val\_loss: 1.5542 - val\_accuracy: 0.6825

Epoch 154/200

16/16 [==============================] - 14s 872ms/step - loss: 0.2432 - accuracy: 0.9131 - val\_loss: 1.3523 - val\_accuracy: 0.6786

Epoch 155/200

16/16 [==============================] - 14s 893ms/step - loss: 0.2697 - accuracy: 0.9062 - val\_loss: 1.3183 - val\_accuracy: 0.6845

Epoch 156/200

16/16 [==============================] - 14s 895ms/step - loss: 0.2247 - accuracy: 0.9199 - val\_loss: 1.4085 - val\_accuracy: 0.6786

Epoch 157/200

16/16 [==============================] - 14s 872ms/step - loss: 0.1885 - accuracy: 0.9333 - val\_loss: 1.5616 - val\_accuracy: 0.6746

Epoch 158/200

16/16 [==============================] - 14s 914ms/step - loss: 0.2436 - accuracy: 0.9062 - val\_loss: 1.3804 - val\_accuracy: 0.6984

Epoch 159/200

16/16 [==============================] - 14s 899ms/step - loss: 0.1994 - accuracy: 0.9316 - val\_loss: 1.3836 - val\_accuracy: 0.7024

Epoch 160/200

16/16 [==============================] - 14s 896ms/step - loss: 0.1937 - accuracy: 0.9219 - val\_loss: 1.5346 - val\_accuracy: 0.6885

Epoch 161/200

16/16 [==============================] - 14s 896ms/step - loss: 0.2017 - accuracy: 0.9277 - val\_loss: 1.3518 - val\_accuracy: 0.6905

Epoch 162/200

16/16 [==============================] - 14s 894ms/step - loss: 0.1866 - accuracy: 0.9297 - val\_loss: 1.6030 - val\_accuracy: 0.6905

Epoch 163/200

16/16 [==============================] - 14s 910ms/step - loss: 0.2314 - accuracy: 0.9141 - val\_loss: 1.3632 - val\_accuracy: 0.6865

Epoch 164/200

16/16 [==============================] - 13s 851ms/step - loss: 0.2519 - accuracy: 0.9082 - val\_loss: 1.3288 - val\_accuracy: 0.7004

Epoch 165/200

16/16 [==============================] - 13s 831ms/step - loss: 0.1530 - accuracy: 0.9434 - val\_loss: 1.5838 - val\_accuracy: 0.6944

Epoch 166/200

16/16 [==============================] - 14s 855ms/step - loss: 0.2051 - accuracy: 0.9277 - val\_loss: 1.3743 - val\_accuracy: 0.6885

Epoch 167/200

16/16 [==============================] - 13s 836ms/step - loss: 0.2070 - accuracy: 0.9232 - val\_loss: 1.3647 - val\_accuracy: 0.6984

Epoch 168/200

16/16 [==============================] - 14s 852ms/step - loss: 0.1785 - accuracy: 0.9238 - val\_loss: 1.4930 - val\_accuracy: 0.6825

Epoch 169/200

16/16 [==============================] - 14s 858ms/step - loss: 0.2043 - accuracy: 0.9316 - val\_loss: 1.4120 - val\_accuracy: 0.6746

Epoch 170/200

16/16 [==============================] - 14s 855ms/step - loss: 0.2309 - accuracy: 0.9180 - val\_loss: 1.4877 - val\_accuracy: 0.6964

Epoch 171/200

16/16 [==============================] - 14s 853ms/step - loss: 0.1828 - accuracy: 0.9277 - val\_loss: 1.4574 - val\_accuracy: 0.6746

Epoch 172/200

16/16 [==============================] - 14s 853ms/step - loss: 0.2138 - accuracy: 0.9238 - val\_loss: 1.4368 - val\_accuracy: 0.6806

Epoch 173/200

16/16 [==============================] - 13s 833ms/step - loss: 0.2475 - accuracy: 0.9030 - val\_loss: 1.5173 - val\_accuracy: 0.6905

Epoch 174/200

16/16 [==============================] - 14s 855ms/step - loss: 0.1964 - accuracy: 0.9238 - val\_loss: 1.3708 - val\_accuracy: 0.6865

Epoch 175/200

16/16 [==============================] - 14s 855ms/step - loss: 0.1500 - accuracy: 0.9453 - val\_loss: 1.4690 - val\_accuracy: 0.6984

Epoch 176/200

16/16 [==============================] - 14s 861ms/step - loss: 0.1776 - accuracy: 0.9375 - val\_loss: 1.5832 - val\_accuracy: 0.6726

Epoch 177/200

16/16 [==============================] - 14s 860ms/step - loss: 0.2003 - accuracy: 0.9192 - val\_loss: 1.5721 - val\_accuracy: 0.6766

Epoch 178/200

16/16 [==============================] - 14s 870ms/step - loss: 0.2448 - accuracy: 0.9141 - val\_loss: 1.4912 - val\_accuracy: 0.6905

Epoch 179/200

16/16 [==============================] - 14s 866ms/step - loss: 0.1988 - accuracy: 0.9232 - val\_loss: 1.5118 - val\_accuracy: 0.6984

Epoch 180/200

16/16 [==============================] - 13s 847ms/step - loss: 0.1950 - accuracy: 0.9313 - val\_loss: 1.4663 - val\_accuracy: 0.6925

Epoch 181/200

16/16 [==============================] - 20s 1s/step - loss: 0.2075 - accuracy: 0.9336 - val\_loss: 1.4487 - val\_accuracy: 0.7024

Epoch 182/200

16/16 [==============================] - 23s 1s/step - loss: 0.1833 - accuracy: 0.9232 - val\_loss: 1.4060 - val\_accuracy: 0.7024

Epoch 183/200

16/16 [==============================] - 22s 1s/step - loss: 0.1661 - accuracy: 0.9374 - val\_loss: 1.5771 - val\_accuracy: 0.6766

Epoch 184/200

16/16 [==============================] - 23s 1s/step - loss: 0.2468 - accuracy: 0.9152 - val\_loss: 1.3663 - val\_accuracy: 0.6905

Epoch 185/200

16/16 [==============================] - 26s 2s/step - loss: 0.2095 - accuracy: 0.9253 - val\_loss: 1.4550 - val\_accuracy: 0.6865

Epoch 186/200

16/16 [==============================] - 14s 887ms/step - loss: 0.2000 - accuracy: 0.9293 - val\_loss: 1.3823 - val\_accuracy: 0.6885

Epoch 187/200

16/16 [==============================] - 14s 889ms/step - loss: 0.1898 - accuracy: 0.9355 - val\_loss: 1.4945 - val\_accuracy: 0.6865

Epoch 188/200

16/16 [==============================] - 14s 881ms/step - loss: 0.1806 - accuracy: 0.9336 - val\_loss: 1.5279 - val\_accuracy: 0.6964

Epoch 189/200

16/16 [==============================] - 14s 886ms/step - loss: 0.2081 - accuracy: 0.9152 - val\_loss: 1.3878 - val\_accuracy: 0.7024

Epoch 190/200

16/16 [==============================] - 15s 932ms/step - loss: 0.1904 - accuracy: 0.9180 - val\_loss: 1.5832 - val\_accuracy: 0.6964

Epoch 191/200

16/16 [==============================] - 14s 904ms/step - loss: 0.2110 - accuracy: 0.9293 - val\_loss: 1.4189 - val\_accuracy: 0.7004

Epoch 192/200

16/16 [==============================] - 14s 907ms/step - loss: 0.1743 - accuracy: 0.9336 - val\_loss: 1.4752 - val\_accuracy: 0.7063

Epoch 193/200

16/16 [==============================] - 14s 884ms/step - loss: 0.1827 - accuracy: 0.9455 - val\_loss: 1.5286 - val\_accuracy: 0.6984

Epoch 194/200

16/16 [==============================] - 14s 910ms/step - loss: 0.2145 - accuracy: 0.9102 - val\_loss: 1.4666 - val\_accuracy: 0.7103

Epoch 195/200

16/16 [==============================] - 15s 932ms/step - loss: 0.1606 - accuracy: 0.9414 - val\_loss: 1.4671 - val\_accuracy: 0.7024

Epoch 196/200

16/16 [==============================] - 14s 913ms/step - loss: 0.1924 - accuracy: 0.9395 - val\_loss: 1.3642 - val\_accuracy: 0.7123

Epoch 197/200

16/16 [==============================] - 15s 924ms/step - loss: 0.2267 - accuracy: 0.9219 - val\_loss: 1.4621 - val\_accuracy: 0.6944

Epoch 198/200

16/16 [==============================] - 14s 899ms/step - loss: 0.1777 - accuracy: 0.9455 - val\_loss: 1.4150 - val\_accuracy: 0.7044

Epoch 199/200

16/16 [==============================] - 14s 898ms/step - loss: 0.1809 - accuracy: 0.9273 - val\_loss: 1.6499 - val\_accuracy: 0.6806

Epoch 200/200

16/16 [==============================] - 15s 936ms/step - loss: 0.1936 - accuracy: 0.9297 - val\_loss: 1.4427 - val\_accuracy: 0.6984