[INFO] training network...

Epoch 1/50

25445/25445 [==============================] - 1197s 47ms/step - loss: 0.9026 - accuracy: 0.7273 - val\_loss: 1.0871 - val\_accuracy: 0.6919

Epoch 2/50

25445/25445 [==============================] - 1173s 46ms/step - loss: 0.5948 - accuracy: 0.8017 - val\_loss: 0.4228 - val\_accuracy: 0.8497

Epoch 3/50

25445/25445 [==============================] - 1168s 46ms/step - loss: 0.5497 - accuracy: 0.8140 - val\_loss: 0.4127 - val\_accuracy: 0.8517

Epoch 4/50

25445/25445 [==============================] - 1172s 46ms/step - loss: 0.5265 - accuracy: 0.8205 - val\_loss: 0.5547 - val\_accuracy: 0.8150

Epoch 5/50

25445/25445 [==============================] - 1188s 47ms/step - loss: 0.5106 - accuracy: 0.8243 - val\_loss: 0.3906 - val\_accuracy: 0.8581

Epoch 6/50

25445/25445 [==============================] - 1152s 45ms/step - loss: 0.5000 - accuracy: 0.8279 - val\_loss: 2.9793 - val\_accuracy: 0.3845

Epoch 7/50

25445/25445 [==============================] - 1194s 47ms/step - loss: 0.4903 - accuracy: 0.8306 - val\_loss: 0.3997 - val\_accuracy: 0.8554

Epoch 8/50

25445/25445 [==============================] - 1171s 46ms/step - loss: 0.4838 - accuracy: 0.8327 - val\_loss: 0.9677 - val\_accuracy: 0.7025

Epoch 9/50

25445/25445 [==============================] - 1141s 45ms/step - loss: 0.4779 - accuracy: 0.8338 - val\_loss: 0.3796 - val\_accuracy: 0.8604

Epoch 10/50

25445/25445 [==============================] - 1178s 46ms/step - loss: 0.4751 - accuracy: 0.8346 - val\_loss: 0.5906 - val\_accuracy: 0.8078

Epoch 11/50

25445/25445 [==============================] - 1173s 46ms/step - loss: 0.4703 - accuracy: 0.8358 - val\_loss: 0.3873 - val\_accuracy: 0.8573

Epoch 12/50

25445/25445 [==============================] - 1169s 46ms/step - loss: 0.4662 - accuracy: 0.8371 - val\_loss: 0.3865 - val\_accuracy: 0.8579

Epoch 13/50

25445/25445 [==============================] - 1170s 46ms/step - loss: 0.4637 - accuracy: 0.8378 - val\_loss: 0.6098 - val\_accuracy: 0.8014

Epoch 14/50

25445/25445 [==============================] - 1143s 45ms/step - loss: 0.4605 - accuracy: 0.8390 - val\_loss: 0.6821 - val\_accuracy: 0.7886

Epoch 15/50

25445/25445 [==============================] - 1153s 45ms/step - loss: 0.4578 - accuracy: 0.8398 - val\_loss: 0.6590 - val\_accuracy: 0.7909

Epoch 16/50

25445/25445 [==============================] - 1114s 44ms/step - loss: 0.4551 - accuracy: 0.8401 - val\_loss: 0.3760 - val\_accuracy: 0.8609

Epoch 17/50

25445/25445 [==============================] - 1136s 45ms/step - loss: 0.4529 - accuracy: 0.8411 - val\_loss: 0.6168 - val\_accuracy: 0.8055

Epoch 18/50

25445/25445 [==============================] - 1108s 44ms/step - loss: 0.4506 - accuracy: 0.8417 - val\_loss: 0.4218 - val\_accuracy: 0.8454

Epoch 19/50

25445/25445 [==============================] - 1144s 45ms/step - loss: 0.4497 - accuracy: 0.8421 - val\_loss: 0.3641 - val\_accuracy: 0.8644

Epoch 20/50

25445/25445 [==============================] - 1135s 45ms/step - loss: 0.4466 - accuracy: 0.8426 - val\_loss: 0.3614 - val\_accuracy: 0.8652

Epoch 21/50

25445/25445 [==============================] - 1126s 44ms/step - loss: 0.4451 - accuracy: 0.8426 - val\_loss: 0.3626 - val\_accuracy: 0.8653

Epoch 22/50

25445/25445 [==============================] - 1161s 46ms/step - loss: 0.4435 - accuracy: 0.8435 - val\_loss: 0.3599 - val\_accuracy: 0.8659

Epoch 23/50

25445/25445 [==============================] - 1138s 45ms/step - loss: 0.4415 - accuracy: 0.8443 - val\_loss: 0.3613 - val\_accuracy: 0.8653

Epoch 24/50

25445/25445 [==============================] - 1141s 45ms/step - loss: 0.4408 - accuracy: 0.8440 - val\_loss: 0.3623 - val\_accuracy: 0.8645

Epoch 25/50

25445/25445 [==============================] - 1127s 44ms/step - loss: 0.4400 - accuracy: 0.8444 - val\_loss: 0.3621 - val\_accuracy: 0.8649

Epoch 26/50

25445/25445 [==============================] - 1154s 45ms/step - loss: 0.4378 - accuracy: 0.8449 - val\_loss: 0.3625 - val\_accuracy: 0.8643

Epoch 27/50

25445/25445 [==============================] - 1117s 44ms/step - loss: 0.4360 - accuracy: 0.8455 - val\_loss: 0.3680 - val\_accuracy: 0.8629

Epoch 28/50

25445/25445 [==============================] - 1108s 44ms/step - loss: 0.4362 - accuracy: 0.8455 - val\_loss: 0.3581 - val\_accuracy: 0.8656

Epoch 29/50

25445/25445 [==============================] - 1147s 45ms/step - loss: 0.4356 - accuracy: 0.8459 - val\_loss: 0.3795 - val\_accuracy: 0.8598

Epoch 30/50

25445/25445 [==============================] - 1141s 45ms/step - loss: 0.4345 - accuracy: 0.8459 - val\_loss: 0.3594 - val\_accuracy: 0.8662

Epoch 31/50

25445/25445 [==============================] - 1180s 46ms/step - loss: 0.4324 - accuracy: 0.8463 - val\_loss: 0.3561 - val\_accuracy: 0.8672

Epoch 32/50

25445/25445 [==============================] - 1128s 44ms/step - loss: 0.4317 - accuracy: 0.8470 - val\_loss: 0.3581 - val\_accuracy: 0.8652

Epoch 33/50

25445/25445 [==============================] - 1149s 45ms/step - loss: 0.4309 - accuracy: 0.8469 - val\_loss: 0.3590 - val\_accuracy: 0.8665

Epoch 34/50

25445/25445 [==============================] - 1126s 44ms/step - loss: 0.4309 - accuracy: 0.8471 - val\_loss: 0.3867 - val\_accuracy: 0.8576

Epoch 35/50

25445/25445 [==============================] - 1120s 44ms/step - loss: 0.4304 - accuracy: 0.8467 - val\_loss: 0.3544 - val\_accuracy: 0.8671

Epoch 36/50

25445/25445 [==============================] - 1111s 44ms/step - loss: 0.4290 - accuracy: 0.8475 - val\_loss: 0.3643 - val\_accuracy: 0.8645

Epoch 37/50

25445/25445 [==============================] - 1139s 45ms/step - loss: 0.4283 - accuracy: 0.8478 - val\_loss: 0.3605 - val\_accuracy: 0.8656

Epoch 38/50

25445/25445 [==============================] - 1151s 45ms/step - loss: 0.4281 - accuracy: 0.8477 - val\_loss: 0.3533 - val\_accuracy: 0.8673

Epoch 39/50

25445/25445 [==============================] - 1140s 45ms/step - loss: 0.4271 - accuracy: 0.8479 - val\_loss: 0.3545 - val\_accuracy: 0.8668

Epoch 40/50

25445/25445 [==============================] - 1295s 51ms/step - loss: 0.4266 - accuracy: 0.8482 - val\_loss: 0.3524 - val\_accuracy: 0.8676

Epoch 41/50

25445/25445 [==============================] - 3915s 154ms/step - loss: 0.4258 - accuracy: 0.8484 - val\_loss: 0.3529 - val\_accuracy: 0.8674

Epoch 42/50

25445/25445 [==============================] - 4029s 158ms/step - loss: 0.4249 - accuracy: 0.8491 - val\_loss: 0.3513 - val\_accuracy: 0.8680

Epoch 43/50

25445/25445 [==============================] - 4019s 158ms/step - loss: 0.4242 - accuracy: 0.8486 - val\_loss: 1.2146 - val\_accuracy: 0.6507

Epoch 44/50

25445/25445 [==============================] - 3973s 156ms/step - loss: 0.4235 - accuracy: 0.8493 - val\_loss: 0.4472 - val\_accuracy: 0.8414

Epoch 45/50

25445/25445 [==============================] - 4007s 157ms/step - loss: 0.4226 - accuracy: 0.8494 - val\_loss: 0.3532 - val\_accuracy: 0.8674

Epoch 46/50

25445/25445 [==============================] - 4036s 159ms/step - loss: 0.4236 - accuracy: 0.8494 - val\_loss: 0.3540 - val\_accuracy: 0.8673

Epoch 47/50

25445/25445 [==============================] - 4028s 158ms/step - loss: 0.4229 - accuracy: 0.8495 - val\_loss: 5.3886 - val\_accuracy: 0.6157

Epoch 48/50

25445/25445 [==============================] - 4120s 162ms/step - loss: 0.4219 - accuracy: 0.8496 - val\_loss: 0.3481 - val\_accuracy: 0.8690

Epoch 49/50

25445/25445 [==============================] - 2156s 85ms/step - loss: 0.4213 - accuracy: 0.8501 - val\_loss: 0.3553 - val\_accuracy: 0.8671

Epoch 50/50

25445/25445 [==============================] - 1154s 45ms/step - loss: 0.4214 - accuracy: 0.8499 - val\_loss: 0.3589 - val\_accuracy: 0.8653