Epoch 1/100

52/52 [==============================] - ETA: 0s - loss: 0.6508 - accuracy: 0.6138

Epoch 1: val\_accuracy improved from -inf to 0.47917, saving model to C:\Users\User\Desktop\Matematyka stosowana - II stopień\III semestr\Uczenie ze wzmocnieniem i deeplearning\deep\_learning\Zadanie 1\KISS\models\val\_accuracy\weights-improvement-epoch001-loss0.742-acc0.479.hdf5

52/52 [==============================] - 146s 3s/step - loss: 0.6508 - accuracy: 0.6138 - val\_loss: 0.7423 - val\_accuracy: 0.4792

Epoch 2/100

52/52 [==============================] - ETA: 0s - loss: 0.6423 - accuracy: 0.6284

Epoch 2: val\_accuracy improved from 0.47917 to 0.56597, saving model to C:\Users\User\Desktop\Matematyka stosowana - II stopień\III semestr\Uczenie ze wzmocnieniem i deeplearning\deep\_learning\Zadanie 1\KISS\models\val\_accuracy\weights-improvement-epoch002-loss0.708-acc0.566.hdf5

52/52 [==============================] - 142s 3s/step - loss: 0.6423 - accuracy: 0.6284 - val\_loss: 0.7084 - val\_accuracy: 0.5660

Epoch 3/100

52/52 [==============================] - ETA: 0s - loss: 0.6282 - accuracy: 0.6443

Epoch 3: val\_accuracy did not improve from 0.56597

52/52 [==============================] - 142s 3s/step - loss: 0.6282 - accuracy: 0.6443 - val\_loss: 0.8020 - val\_accuracy: 0.5312

Epoch 4/100

52/52 [==============================] - ETA: 0s - loss: 0.6632 - accuracy: 0.6071

Epoch 4: val\_accuracy did not improve from 0.56597

52/52 [==============================] - 141s 3s/step - loss: 0.6632 - accuracy: 0.6071 - val\_loss: 0.8031 - val\_accuracy: 0.4861

Epoch 5/100

52/52 [==============================] - ETA: 0s - loss: 0.6482 - accuracy: 0.6187

Epoch 5: val\_accuracy did not improve from 0.56597

52/52 [==============================] - 145s 3s/step - loss: 0.6482 - accuracy: 0.6187 - val\_loss: 0.7376 - val\_accuracy: 0.5139

Epoch 6/100

52/52 [==============================] - ETA: 0s - loss: 0.6377 - accuracy: 0.6358

Epoch 6: val\_accuracy did not improve from 0.56597

52/52 [==============================] - 144s 3s/step - loss: 0.6377 - accuracy: 0.6358 - val\_loss: 0.7397 - val\_accuracy: 0.5382

Epoch 7/100

52/52 [==============================] - ETA: 0s - loss: 0.6510 - accuracy: 0.6120

Epoch 7: val\_accuracy did not improve from 0.56597

52/52 [==============================] - 142s 3s/step - loss: 0.6510 - accuracy: 0.6120 - val\_loss: 0.7031 - val\_accuracy: 0.5104

Epoch 8/100

52/52 [==============================] - ETA: 0s - loss: 0.6229 - accuracy: 0.6559

Epoch 8: val\_accuracy did not improve from 0.56597

52/52 [==============================] - 142s 3s/step - loss: 0.6229 - accuracy: 0.6559 - val\_loss: 0.8046 - val\_accuracy: 0.5174

Epoch 9/100

52/52 [==============================] - ETA: 0s - loss: 0.6506 - accuracy: 0.6168

Epoch 9: val\_accuracy did not improve from 0.56597

52/52 [==============================] - 148s 3s/step - loss: 0.6506 - accuracy: 0.6168 - val\_loss: 0.7494 - val\_accuracy: 0.4688

Epoch 10/100

52/52 [==============================] - ETA: 0s - loss: 0.6348 - accuracy: 0.6284

Epoch 10: val\_accuracy did not improve from 0.56597

52/52 [==============================] - 143s 3s/step - loss: 0.6348 - accuracy: 0.6284 - val\_loss: 0.7719 - val\_accuracy: 0.5486

Epoch 11/100

52/52 [==============================] - ETA: 0s - loss: 0.6097 - accuracy: 0.6589

Epoch 11: val\_accuracy did not improve from 0.56597

52/52 [==============================] - 143s 3s/step - loss: 0.6097 - accuracy: 0.6589 - val\_loss: 0.7612 - val\_accuracy: 0.4896

Epoch 12/100

52/52 [==============================] - ETA: 0s - loss: 0.6154 - accuracy: 0.6602

Epoch 12: val\_accuracy did not improve from 0.56597

52/52 [==============================] - 145s 3s/step - loss: 0.6154 - accuracy: 0.6602 - val\_loss: 0.7661 - val\_accuracy: 0.5208

Epoch 13/100

52/52 [==============================] - ETA: 0s - loss: 0.6098 - accuracy: 0.6650

Epoch 13: val\_accuracy did not improve from 0.56597

52/52 [==============================] - 140s 3s/step - loss: 0.6098 - accuracy: 0.6650 - val\_loss: 0.7726 - val\_accuracy: 0.5139

Epoch 14/100

52/52 [==============================] - ETA: 0s - loss: 0.6054 - accuracy: 0.6541

Epoch 14: val\_accuracy improved from 0.56597 to 0.59028, saving model to C:\Users\User\Desktop\Matematyka stosowana - II stopień\III semestr\Uczenie ze wzmocnieniem i deeplearning\deep\_learning\Zadanie 1\KISS\models\val\_accuracy\weights-improvement-epoch014-loss0.729-acc0.590.hdf5

52/52 [==============================] - 143s 3s/step - loss: 0.6054 - accuracy: 0.6541 - val\_loss: 0.7292 - val\_accuracy: 0.5903

Epoch 15/100

52/52 [==============================] - ETA: 0s - loss: 0.6072 - accuracy: 0.6681

Epoch 15: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 142s 3s/step - loss: 0.6072 - accuracy: 0.6681 - val\_loss: 0.8736 - val\_accuracy: 0.5139

Epoch 16/100

52/52 [==============================] - ETA: 0s - loss: 0.6054 - accuracy: 0.6791

Epoch 16: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 142s 3s/step - loss: 0.6054 - accuracy: 0.6791 - val\_loss: 0.8635 - val\_accuracy: 0.5104

Epoch 17/100

52/52 [==============================] - ETA: 0s - loss: 0.6039 - accuracy: 0.6626

Epoch 17: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 142s 3s/step - loss: 0.6039 - accuracy: 0.6626 - val\_loss: 0.7811 - val\_accuracy: 0.5312

Epoch 18/100

52/52 [==============================] - ETA: 0s - loss: 0.6085 - accuracy: 0.6675

Epoch 18: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 142s 3s/step - loss: 0.6085 - accuracy: 0.6675 - val\_loss: 0.7489 - val\_accuracy: 0.5833

Epoch 19/100

52/52 [==============================] - ETA: 0s - loss: 0.5944 - accuracy: 0.6724

Epoch 19: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 144s 3s/step - loss: 0.5944 - accuracy: 0.6724 - val\_loss: 0.7485 - val\_accuracy: 0.5590

Epoch 20/100

52/52 [==============================] - ETA: 0s - loss: 0.5862 - accuracy: 0.6809

Epoch 20: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.5862 - accuracy: 0.6809 - val\_loss: 0.8142 - val\_accuracy: 0.5174

Epoch 21/100

52/52 [==============================] - ETA: 0s - loss: 0.5951 - accuracy: 0.6785

Epoch 21: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 142s 3s/step - loss: 0.5951 - accuracy: 0.6785 - val\_loss: 0.7502 - val\_accuracy: 0.5451

Epoch 22/100

52/52 [==============================] - ETA: 0s - loss: 0.5857 - accuracy: 0.6907

Epoch 22: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 142s 3s/step - loss: 0.5857 - accuracy: 0.6907 - val\_loss: 0.7498 - val\_accuracy: 0.5417

Epoch 23/100

52/52 [==============================] - ETA: 0s - loss: 0.5852 - accuracy: 0.6882

Epoch 23: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.5852 - accuracy: 0.6882 - val\_loss: 0.7663 - val\_accuracy: 0.5174

Epoch 24/100

52/52 [==============================] - ETA: 0s - loss: 0.5849 - accuracy: 0.6931

Epoch 24: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.5849 - accuracy: 0.6931 - val\_loss: 0.8488 - val\_accuracy: 0.5174

Epoch 25/100

52/52 [==============================] - ETA: 0s - loss: 0.5858 - accuracy: 0.6858

Epoch 25: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.5858 - accuracy: 0.6858 - val\_loss: 0.7842 - val\_accuracy: 0.5625

Epoch 26/100

52/52 [==============================] - ETA: 0s - loss: 0.5778 - accuracy: 0.6791

Epoch 26: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 142s 3s/step - loss: 0.5778 - accuracy: 0.6791 - val\_loss: 0.7891 - val\_accuracy: 0.5243

Epoch 27/100

52/52 [==============================] - ETA: 0s - loss: 0.5654 - accuracy: 0.6852

Epoch 27: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 142s 3s/step - loss: 0.5654 - accuracy: 0.6852 - val\_loss: 0.8390 - val\_accuracy: 0.5417

Epoch 28/100

52/52 [==============================] - ETA: 0s - loss: 0.5512 - accuracy: 0.6992

Epoch 28: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.5512 - accuracy: 0.6992 - val\_loss: 0.8123 - val\_accuracy: 0.5417

Epoch 29/100

52/52 [==============================] - ETA: 0s - loss: 0.5250 - accuracy: 0.7230

Epoch 29: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.5250 - accuracy: 0.7230 - val\_loss: 0.8208 - val\_accuracy: 0.5486

Epoch 30/100

52/52 [==============================] - ETA: 0s - loss: 0.5448 - accuracy: 0.7175

Epoch 30: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 142s 3s/step - loss: 0.5448 - accuracy: 0.7175 - val\_loss: 0.8533 - val\_accuracy: 0.4896

Epoch 31/100

52/52 [==============================] - ETA: 0s - loss: 0.5365 - accuracy: 0.7242

Epoch 31: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.5365 - accuracy: 0.7242 - val\_loss: 0.8887 - val\_accuracy: 0.5382

Epoch 32/100

52/52 [==============================] - ETA: 0s - loss: 0.5326 - accuracy: 0.7376

Epoch 32: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 144s 3s/step - loss: 0.5326 - accuracy: 0.7376 - val\_loss: 0.9702 - val\_accuracy: 0.5486

Epoch 33/100

52/52 [==============================] - ETA: 0s - loss: 0.5393 - accuracy: 0.7157

Epoch 33: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.5393 - accuracy: 0.7157 - val\_loss: 0.8735 - val\_accuracy: 0.5278

Epoch 34/100

52/52 [==============================] - ETA: 0s - loss: 0.5053 - accuracy: 0.7419

Epoch 34: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.5053 - accuracy: 0.7419 - val\_loss: 0.9562 - val\_accuracy: 0.5312

Epoch 35/100

52/52 [==============================] - ETA: 0s - loss: 0.5125 - accuracy: 0.7474

Epoch 35: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.5125 - accuracy: 0.7474 - val\_loss: 1.0896 - val\_accuracy: 0.5521

Epoch 36/100

52/52 [==============================] - ETA: 0s - loss: 0.5179 - accuracy: 0.7401

Epoch 36: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.5179 - accuracy: 0.7401 - val\_loss: 0.9133 - val\_accuracy: 0.4931

Epoch 37/100

52/52 [==============================] - ETA: 0s - loss: 0.5228 - accuracy: 0.7456

Epoch 37: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 144s 3s/step - loss: 0.5228 - accuracy: 0.7456 - val\_loss: 1.0088 - val\_accuracy: 0.5417

Epoch 38/100

52/52 [==============================] - ETA: 0s - loss: 0.5279 - accuracy: 0.7138

Epoch 38: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.5279 - accuracy: 0.7138 - val\_loss: 0.9553 - val\_accuracy: 0.5174

Epoch 39/100

52/52 [==============================] - ETA: 0s - loss: 0.5127 - accuracy: 0.7407

Epoch 39: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 144s 3s/step - loss: 0.5127 - accuracy: 0.7407 - val\_loss: 0.9740 - val\_accuracy: 0.5208

Epoch 40/100

52/52 [==============================] - ETA: 0s - loss: 0.4990 - accuracy: 0.7602

Epoch 40: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 144s 3s/step - loss: 0.4990 - accuracy: 0.7602 - val\_loss: 0.8820 - val\_accuracy: 0.5347

Epoch 41/100

52/52 [==============================] - ETA: 0s - loss: 0.4975 - accuracy: 0.7486

Epoch 41: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 145s 3s/step - loss: 0.4975 - accuracy: 0.7486 - val\_loss: 0.9651 - val\_accuracy: 0.5451

Epoch 42/100

52/52 [==============================] - ETA: 0s - loss: 0.4973 - accuracy: 0.7511

Epoch 42: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.4973 - accuracy: 0.7511 - val\_loss: 0.9005 - val\_accuracy: 0.5521

Epoch 43/100

52/52 [==============================] - ETA: 0s - loss: 0.4756 - accuracy: 0.7578

Epoch 43: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 147s 3s/step - loss: 0.4756 - accuracy: 0.7578 - val\_loss: 0.9201 - val\_accuracy: 0.4896

Epoch 44/100

52/52 [==============================] - ETA: 0s - loss: 0.4592 - accuracy: 0.7901

Epoch 44: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 144s 3s/step - loss: 0.4592 - accuracy: 0.7901 - val\_loss: 1.1056 - val\_accuracy: 0.4896

Epoch 45/100

52/52 [==============================] - ETA: 0s - loss: 0.4700 - accuracy: 0.7675

Epoch 45: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.4700 - accuracy: 0.7675 - val\_loss: 1.0352 - val\_accuracy: 0.5104

Epoch 46/100

52/52 [==============================] - ETA: 0s - loss: 0.4728 - accuracy: 0.7688

Epoch 46: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 141s 3s/step - loss: 0.4728 - accuracy: 0.7688 - val\_loss: 1.1677 - val\_accuracy: 0.5069

Epoch 47/100

52/52 [==============================] - ETA: 0s - loss: 0.4683 - accuracy: 0.7810

Epoch 47: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 142s 3s/step - loss: 0.4683 - accuracy: 0.7810 - val\_loss: 0.9909 - val\_accuracy: 0.4965

Epoch 48/100

52/52 [==============================] - ETA: 0s - loss: 0.4307 - accuracy: 0.7913

Epoch 48: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 142s 3s/step - loss: 0.4307 - accuracy: 0.7913 - val\_loss: 0.9881 - val\_accuracy: 0.5590

Epoch 49/100

52/52 [==============================] - ETA: 0s - loss: 0.4764 - accuracy: 0.7559

Epoch 49: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 142s 3s/step - loss: 0.4764 - accuracy: 0.7559 - val\_loss: 1.2243 - val\_accuracy: 0.5451

Epoch 50/100

52/52 [==============================] - ETA: 0s - loss: 0.4631 - accuracy: 0.7755

Epoch 50: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.4631 - accuracy: 0.7755 - val\_loss: 0.9854 - val\_accuracy: 0.5139

Epoch 51/100

52/52 [==============================] - ETA: 0s - loss: 0.4475 - accuracy: 0.7791

Epoch 51: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 142s 3s/step - loss: 0.4475 - accuracy: 0.7791 - val\_loss: 1.0202 - val\_accuracy: 0.5451

Epoch 52/100

52/52 [==============================] - ETA: 0s - loss: 0.4356 - accuracy: 0.7907

Epoch 52: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 142s 3s/step - loss: 0.4356 - accuracy: 0.7907 - val\_loss: 1.2623 - val\_accuracy: 0.5625

Epoch 53/100

52/52 [==============================] - ETA: 0s - loss: 0.4301 - accuracy: 0.8023

Epoch 53: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 142s 3s/step - loss: 0.4301 - accuracy: 0.8023 - val\_loss: 1.0813 - val\_accuracy: 0.5312

Epoch 54/100

52/52 [==============================] - ETA: 0s - loss: 0.4420 - accuracy: 0.7968

Epoch 54: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.4420 - accuracy: 0.7968 - val\_loss: 1.2787 - val\_accuracy: 0.5243

Epoch 55/100

52/52 [==============================] - ETA: 0s - loss: 0.3988 - accuracy: 0.8078

Epoch 55: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.3988 - accuracy: 0.8078 - val\_loss: 1.0857 - val\_accuracy: 0.5278

Epoch 56/100

52/52 [==============================] - ETA: 0s - loss: 0.4089 - accuracy: 0.7938

Epoch 56: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 144s 3s/step - loss: 0.4089 - accuracy: 0.7938 - val\_loss: 1.1389 - val\_accuracy: 0.5451

Epoch 57/100

52/52 [==============================] - ETA: 0s - loss: 0.4244 - accuracy: 0.8035

Epoch 57: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.4244 - accuracy: 0.8035 - val\_loss: 1.1041 - val\_accuracy: 0.5312

Epoch 58/100

52/52 [==============================] - ETA: 0s - loss: 0.3922 - accuracy: 0.8243

Epoch 58: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.3922 - accuracy: 0.8243 - val\_loss: 1.2260 - val\_accuracy: 0.5347

Epoch 59/100

52/52 [==============================] - ETA: 0s - loss: 0.4166 - accuracy: 0.8109

Epoch 59: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.4166 - accuracy: 0.8109 - val\_loss: 1.1151 - val\_accuracy: 0.5382

Epoch 60/100

52/52 [==============================] - ETA: 0s - loss: 0.3858 - accuracy: 0.8279

Epoch 60: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.3858 - accuracy: 0.8279 - val\_loss: 1.5761 - val\_accuracy: 0.5069

Epoch 61/100

52/52 [==============================] - ETA: 0s - loss: 0.4216 - accuracy: 0.8011

Epoch 61: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 142s 3s/step - loss: 0.4216 - accuracy: 0.8011 - val\_loss: 1.0961 - val\_accuracy: 0.5104

Epoch 62/100

52/52 [==============================] - ETA: 0s - loss: 0.4097 - accuracy: 0.8066

Epoch 62: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 142s 3s/step - loss: 0.4097 - accuracy: 0.8066 - val\_loss: 1.2047 - val\_accuracy: 0.5035

Epoch 63/100

52/52 [==============================] - ETA: 0s - loss: 0.3791 - accuracy: 0.8157

Epoch 63: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 142s 3s/step - loss: 0.3791 - accuracy: 0.8157 - val\_loss: 1.2071 - val\_accuracy: 0.5417

Epoch 64/100

52/52 [==============================] - ETA: 0s - loss: 0.3967 - accuracy: 0.8145

Epoch 64: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 142s 3s/step - loss: 0.3967 - accuracy: 0.8145 - val\_loss: 1.3234 - val\_accuracy: 0.5312

Epoch 65/100

52/52 [==============================] - ETA: 0s - loss: 0.3850 - accuracy: 0.8395

Epoch 65: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.3850 - accuracy: 0.8395 - val\_loss: 1.3983 - val\_accuracy: 0.5174

Epoch 66/100

52/52 [==============================] - ETA: 0s - loss: 0.3894 - accuracy: 0.8200

Epoch 66: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 142s 3s/step - loss: 0.3894 - accuracy: 0.8200 - val\_loss: 1.1701 - val\_accuracy: 0.5035

Epoch 67/100

52/52 [==============================] - ETA: 0s - loss: 0.3703 - accuracy: 0.8371

Epoch 67: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 142s 3s/step - loss: 0.3703 - accuracy: 0.8371 - val\_loss: 1.2858 - val\_accuracy: 0.5104

Epoch 68/100

52/52 [==============================] - ETA: 0s - loss: 0.3651 - accuracy: 0.8212

Epoch 68: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.3651 - accuracy: 0.8212 - val\_loss: 1.2200 - val\_accuracy: 0.4896

Epoch 69/100

52/52 [==============================] - ETA: 0s - loss: 0.3644 - accuracy: 0.8395

Epoch 69: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 145s 3s/step - loss: 0.3644 - accuracy: 0.8395 - val\_loss: 1.3405 - val\_accuracy: 0.5104

Epoch 70/100

52/52 [==============================] - ETA: 0s - loss: 0.3741 - accuracy: 0.8304

Epoch 70: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 142s 3s/step - loss: 0.3741 - accuracy: 0.8304 - val\_loss: 1.1835 - val\_accuracy: 0.5000

Epoch 71/100

52/52 [==============================] - ETA: 0s - loss: 0.3572 - accuracy: 0.8383

Epoch 71: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 142s 3s/step - loss: 0.3572 - accuracy: 0.8383 - val\_loss: 1.4124 - val\_accuracy: 0.4965

Epoch 72/100

52/52 [==============================] - ETA: 0s - loss: 0.3573 - accuracy: 0.8469

Epoch 72: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.3573 - accuracy: 0.8469 - val\_loss: 1.3740 - val\_accuracy: 0.5174

Epoch 73/100

52/52 [==============================] - ETA: 0s - loss: 0.3512 - accuracy: 0.8426

Epoch 73: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.3512 - accuracy: 0.8426 - val\_loss: 1.3223 - val\_accuracy: 0.5104

Epoch 74/100

52/52 [==============================] - ETA: 0s - loss: 0.3369 - accuracy: 0.8493

Epoch 74: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 151s 3s/step - loss: 0.3369 - accuracy: 0.8493 - val\_loss: 1.2725 - val\_accuracy: 0.5174

Epoch 75/100

52/52 [==============================] - ETA: 0s - loss: 0.3637 - accuracy: 0.8298

Epoch 75: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.3637 - accuracy: 0.8298 - val\_loss: 1.3614 - val\_accuracy: 0.5556

Epoch 76/100

52/52 [==============================] - ETA: 0s - loss: 0.3534 - accuracy: 0.8340

Epoch 76: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.3534 - accuracy: 0.8340 - val\_loss: 1.3763 - val\_accuracy: 0.5035

Epoch 77/100

52/52 [==============================] - ETA: 0s - loss: 0.3336 - accuracy: 0.8505

Epoch 77: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.3336 - accuracy: 0.8505 - val\_loss: 1.4170 - val\_accuracy: 0.5347

Epoch 78/100

52/52 [==============================] - ETA: 0s - loss: 0.3307 - accuracy: 0.8475

Epoch 78: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 142s 3s/step - loss: 0.3307 - accuracy: 0.8475 - val\_loss: 1.3552 - val\_accuracy: 0.4757

Epoch 79/100

52/52 [==============================] - ETA: 0s - loss: 0.3153 - accuracy: 0.8603

Epoch 79: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.3153 - accuracy: 0.8603 - val\_loss: 1.3163 - val\_accuracy: 0.5208

Epoch 80/100

52/52 [==============================] - ETA: 0s - loss: 0.3307 - accuracy: 0.8658

Epoch 80: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.3307 - accuracy: 0.8658 - val\_loss: 1.2317 - val\_accuracy: 0.5139

Epoch 81/100

52/52 [==============================] - ETA: 0s - loss: 0.3273 - accuracy: 0.8591

Epoch 81: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.3273 - accuracy: 0.8591 - val\_loss: 1.6030 - val\_accuracy: 0.4757

Epoch 82/100

52/52 [==============================] - ETA: 0s - loss: 0.3076 - accuracy: 0.8682

Epoch 82: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 142s 3s/step - loss: 0.3076 - accuracy: 0.8682 - val\_loss: 1.5329 - val\_accuracy: 0.4861

Epoch 83/100

52/52 [==============================] - ETA: 0s - loss: 0.3056 - accuracy: 0.8719

Epoch 83: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.3056 - accuracy: 0.8719 - val\_loss: 1.4401 - val\_accuracy: 0.5035

Epoch 84/100

52/52 [==============================] - ETA: 0s - loss: 0.3329 - accuracy: 0.8505

Epoch 84: val\_accuracy did not improve from 0.59028

52/52 [==============================] - 143s 3s/step - loss: 0.3329 - accuracy: 0.8505 - val\_loss: 1.5029 - val\_accuracy: 0.5139

Epoch 84: early stopping