

```
Epoch 1/30
35/35 [=====] - 22s 400ms/step - loss: 0.7177 - acc: 0.5150 - val_
loss: 0.6667 - val_acc: 0.7436
Epoch 2/30
35/35 [=====] - 8s 229ms/step - loss: 0.6737 - acc: 0.5922 - val_l
oss: 0.6592 - val_acc: 0.5182
Epoch 3/30
35/35 [=====] - 8s 234ms/step - loss: 0.6587 - acc: 0.5804 - val_l
oss: 0.6350 - val_acc: 0.6236
Epoch 4/30
35/35 [=====] - 8s 225ms/step - loss: 0.6443 - acc: 0.6381 - val_l
oss: 0.5978 - val_acc: 0.7709
Epoch 5/30
35/35 [=====] - 8s 226ms/step - loss: 0.6252 - acc: 0.6499 - val_l
oss: 0.5876 - val_acc: 0.7218
Epoch 6/30
35/35 [=====] - 8s 232ms/step - loss: 0.5946 - acc: 0.7434 - val_l
oss: 0.5687 - val_acc: 0.7236
Epoch 7/30
35/35 [=====] - 8s 225ms/step - loss: 0.5793 - acc: 0.7330 - val_l
oss: 0.5257 - val_acc: 0.8200
Epoch 8/30
35/35 [=====] - 8s 229ms/step - loss: 0.5545 - acc: 0.7661 - val_l
oss: 0.5072 - val_acc: 0.7909
Epoch 9/30
35/35 [=====] - 13s 363ms/step - loss: 0.5247 - acc: 0.7861 - val_
loss: 0.4676 - val_acc: 0.8218
Epoch 10/30
35/35 [=====] - 8s 234ms/step - loss: 0.5192 - acc: 0.7625 - val_l
oss: 0.5358 - val_acc: 0.7018
Epoch 11/30
35/35 [=====] - 8s 232ms/step - loss: 0.4889 - acc: 0.7975 - val_l
oss: 0.4458 - val_acc: 0.8109
Epoch 12/30
35/35 [=====] - 8s 222ms/step - loss: 0.5096 - acc: 0.7607 - val_l
oss: 0.4335 - val_acc: 0.8127
Epoch 13/30
35/35 [=====] - 8s 231ms/step - loss: 0.4758 - acc: 0.8038 - val_l
oss: 0.4356 - val_acc: 0.7945
Epoch 14/30
35/35 [=====] - 8s 230ms/step - loss: 0.4681 - acc: 0.7988 - val_l
oss: 0.4142 - val_acc: 0.8218
Epoch 15/30
35/35 [=====] - 11s 332ms/step - loss: 0.4641 - acc: 0.8061 - val_
loss: 0.4176 - val_acc: 0.8273
Epoch 16/30
35/35 [=====] - 12s 327ms/step - loss: 0.4716 - acc: 0.7884 - val_
loss: 0.4414 - val_acc: 0.7873
Epoch 17/30
35/35 [=====] - 12s 340ms/step - loss: 0.4778 - acc: 0.7802 - val_
loss: 0.4685 - val_acc: 0.7655
Epoch 18/30
35/35 [=====] - 12s 338ms/step - loss: 0.4470 - acc: 0.8129 - val_
loss: 0.4047 - val_acc: 0.8255
Epoch 19/30
35/35 [=====] - 11s 312ms/step - loss: 0.4480 - acc: 0.8070 - val_
loss: 0.3903 - val_acc: 0.8509
Epoch 20/30
35/35 [=====] - 12s 327ms/step - loss: 0.4419 - acc: 0.8120 - val_
loss: 0.3894 - val_acc: 0.8400
Epoch 21/30
```

```
35/35 [=====] - 11s 320ms/step - loss: 0.4409 - acc: 0.8124 - val_
loss: 0.3877 - val_acc: 0.8400
Epoch 22/30
35/35 [=====] - 11s 306ms/step - loss: 0.4426 - acc: 0.8138 - val_
loss: 0.3798 - val_acc: 0.8509
Epoch 23/30
35/35 [=====] - 12s 339ms/step - loss: 0.4294 - acc: 0.8197 - val_
loss: 0.3835 - val_acc: 0.8345
Epoch 24/30
35/35 [=====] - 11s 319ms/step - loss: 0.4269 - acc: 0.8215 - val_
loss: 0.3696 - val_acc: 0.8491
Epoch 25/30
35/35 [=====] - 11s 325ms/step - loss: 0.4437 - acc: 0.8106 - val_
loss: 0.3688 - val_acc: 0.8564
Epoch 26/30
35/35 [=====] - 11s 323ms/step - loss: 0.4203 - acc: 0.8274 - val_
loss: 0.3829 - val_acc: 0.8309
Epoch 27/30
35/35 [=====] - 11s 318ms/step - loss: 0.4219 - acc: 0.8233 - val_
loss: 0.3799 - val_acc: 0.8309
Epoch 28/30
35/35 [=====] - 8s 229ms/step - loss: 0.4202 - acc: 0.8238 - val_l
oss: 0.3666 - val_acc: 0.8509
Epoch 29/30
35/35 [=====] - 8s 237ms/step - loss: 0.4287 - acc: 0.8174 - val_l
oss: 0.3681 - val_acc: 0.8509
Epoch 30/30
35/35 [=====] - 8s 227ms/step - loss: 0.4026 - acc: 0.8292 - val_l
oss: 0.3690 - val_acc: 0.8382
```