```
E:\miniconda3\envs\pytorch\python.exe E:\desktop\DeepLearning\cat_vs_dog\resnet_no_attention.py
Epoch 1/20
----------
Training: 100%|██████████| 547/547 [01:57<00:00,  4.66it/s]
Validating:   0%|          | 0/157 [00:00<?, ?it/s]Train Loss: 0.6778 Acc: 0.5533
Validating: 100%|██████████| 157/157 [00:19<00:00,  8.04it/s]
Val Loss: 0.6563 Acc: 0.5708
Epoch 2/20
----------
Training: 100%|██████████| 547/547 [02:00<00:00,  4.52it/s]
Train Loss: 0.6561 Acc: 0.6034
Validating: 100%|██████████| 157/157 [00:17<00:00,  8.79it/s]
Training:   0%|          | 0/547 [00:00<?, ?it/s]Val Loss: 0.6342 Acc: 0.6292
Epoch 3/20
----------
Training: 100%|██████████| 547/547 [01:57<00:00,  4.67it/s]
Train Loss: 0.6481 Acc: 0.6266
Validating: 100%|██████████| 157/157 [00:18<00:00,  8.50it/s]
Training:   0%|          | 0/547 [00:00<?, ?it/s]Val Loss: 0.6249 Acc: 0.6316
Epoch 4/20
----------
Training: 100%|██████████| 547/547 [01:56<00:00,  4.71it/s]
Validating:   0%|          | 0/157 [00:00<?, ?it/s]Train Loss: 0.6322 Acc: 0.6358
Validating: 100%|██████████| 157/157 [00:18<00:00,  8.47it/s]
Val Loss: 0.6052 Acc: 0.6668
Epoch 5/20
----------
Training: 100%|██████████| 547/547 [01:58<00:00,  4.
```

```
28 63it/s]
29 Validating:   0%|          | 0/157 [00:00<?, ?it/s]
   Train Loss: 0.6196 Acc: 0.6537
30 Validating: 100%|██████████| 157/157 [00:18<00:00,  8
   .64it/s]
31 Training:   0%|          | 0/547 [00:00<?, ?it/s]Val
   Loss: 0.6007 Acc: 0.6622
32 Epoch 6/20
33 ----------
34 Training: 100%|██████████| 547/547 [02:03<00:00,  4.
   43it/s]
35 Validating:   0%|          | 0/157 [00:00<?, ?it/s]
   Train Loss: 0.6132 Acc: 0.6575
36 Validating: 100%|██████████| 157/157 [00:21<00:00,  7
   .15it/s]
37 Val Loss: 0.5782 Acc: 0.6944
38 Training:   0%|          | 0/547 [00:00<?, ?it/s]
   Epoch 7/20
39 ----------
40 Training: 100%|██████████| 547/547 [02:13<00:00,  4.
   10it/s]
41 Validating:   0%|          | 0/157 [00:00<?, ?it/s]
   Train Loss: 0.6057 Acc: 0.6678
42 Validating: 100%|██████████| 157/157 [00:22<00:00,  6
   .88it/s]
43 Val Loss: 0.5584 Acc: 0.7066
44 Training:   0%|          | 0/547 [00:00<?, ?it/s]
   Epoch 8/20
45 ----------
46 Training: 100%|██████████| 547/547 [02:11<00:00,  4.
   15it/s]
47 Train Loss: 0.5889 Acc: 0.6861
48 Validating: 100%|██████████| 157/157 [00:21<00:00,  7
   .44it/s]
49 Val Loss: 0.5538 Acc: 0.7188
50 Epoch 9/20
51 ----------
52 Training: 100%|██████████| 547/547 [01:57<00:00,  4.
   66it/s]
53 Validating:   0%|          | 0/157 [00:00<?, ?it/s]
   Train Loss: 0.5778 Acc: 0.6961
```

```
54 Validating: 100%|          | 157/157 [00:17<00:00,  8
   .76it/s]
55 Training:   0%|           | 0/547 [00:00<?, ?it/s]Val
   Loss: 0.5478 Acc: 0.7154
56 Epoch 10/20
57 ----------
58 Training: 100%|          | 547/547 [01:57<00:00,  4.
   66it/s]
59 Train Loss: 0.5644 Acc: 0.7077
60 Validating: 100%|          | 157/157 [00:18<00:00,  8
   .33it/s]
61 Val Loss: 0.5324 Acc: 0.7326
62 Epoch 11/20
63 ----------
64 Training: 100%|          | 547/547 [01:53<00:00,  4.
   81it/s]
65 Train Loss: 0.5554 Acc: 0.7131
66 Validating: 100%|          | 157/157 [00:18<00:00,  8
   .44it/s]
67 Val Loss: 0.5237 Acc: 0.7346
68 Training:   0%|           | 0/547 [00:00<?, ?it/s]
   Epoch 12/20
69 ----------
70 Training: 100%|          | 547/547 [01:57<00:00,  4.
   66it/s]
71 Validating:   0%|           | 0/157 [00:00<?, ?it/s]
   Train Loss: 0.5496 Acc: 0.7190
72 Validating: 100%|          | 157/157 [00:18<00:00,  8
   .62it/s]
73 Val Loss: 0.5312 Acc: 0.7346
74 Epoch 13/20
75 ----------
76 Training: 100%|          | 547/547 [01:55<00:00,  4.
   73it/s]
77 Train Loss: 0.5372 Acc: 0.7277
78 Validating: 100%|          | 157/157 [00:18<00:00,  8
   .54it/s]
79 Val Loss: 0.5143 Acc: 0.7406
80 Epoch 14/20
81 ----------
82 Training: 100%|          | 547/547 [01:58<00:00,  4.
```

```
 82 63it/s]
 83 Train Loss: 0.5305 Acc: 0.7335
 84 Validating: 100%|██████████| 157/157 [00:18<00:00,
    8.53it/s]
 85 Val Loss: 0.4989 Acc: 0.7620
 86 Epoch 15/20
 87 ----------
 88 Training: 100%|██████████| 547/547 [01:57<00:00,  4.
    65it/s]
 89 Validating:   0%|          | 0/157 [00:00<?, ?it/s]
    Train Loss: 0.5176 Acc: 0.7437
 90 Validating: 100%|██████████| 157/157 [00:19<00:00,
    8.23it/s]
 91 Val Loss: 0.4868 Acc: 0.7664
 92 Training:   0%|          | 0/547 [00:00<?, ?it/s]
    Epoch 16/20
 93 ----------
 94 Training: 100%|██████████| 547/547 [02:07<00:00,  4.
    30it/s]
 95 Validating:   0%|          | 0/157 [00:00<?, ?it/s]
    Train Loss: 0.5093 Acc: 0.7509
 96 Validating: 100%|██████████| 157/157 [00:20<00:00,
    7.57it/s]
 97 Training:   0%|          | 0/547 [00:00<?, ?it/s]Val
     Loss: 0.4898 Acc: 0.7654
 98 Epoch 17/20
 99 ----------
100 Training: 100%|██████████| 547/547 [02:07<00:00,  4.
    29it/s]
101 Validating:   0%|          | 0/157 [00:00<?, ?it/s]
    Train Loss: 0.5052 Acc: 0.7571
102 Validating: 100%|██████████| 157/157 [00:20<00:00,
    7.75it/s]
103 Val Loss: 0.4745 Acc: 0.7772
104 Training:   0%|          | 0/547 [00:00<?, ?it/s]
    Epoch 18/20
105 ----------
106 Training: 100%|██████████| 547/547 [02:08<00:00,  4.
    25it/s]
107 Validating:   0%|          | 0/157 [00:00<?, ?it/s]
    Train Loss: 0.4814 Acc: 0.7707
```

```
108 Validating: 100%|██████████| 157/157 [00:23<00:00,
    6.66it/s]
109 Training:   0%|          | 0/547 [00:00<?, ?it/s]Val
     Loss: 0.4636 Acc: 0.7928
110 Epoch 19/20
111 ----------
112 Training: 100%|██████████| 547/547 [02:16<00:00,  4.
    01it/s]
113 Train Loss: 0.4713 Acc: 0.7757
114 Validating: 100%|██████████| 157/157 [00:21<00:00,
    7.31it/s]
115 Val Loss: 0.4466 Acc: 0.7882
116 Epoch 20/20
117 ----------
118 Training: 100%|██████████| 547/547 [02:07<00:00,  4.
    29it/s]
119 Train Loss: 0.4630 Acc: 0.7802
120 Validating: 100%|██████████| 157/157 [00:21<00:00,
    7.46it/s]
121 Val Loss: 0.4175 Acc: 0.8096
122 Traceback (most recent call last):
123   File "E:\desktop\DeepLearning\cat_vs_dog\
    resnet_no_attention.py", line 247, in <module>
124   File "E:\desktop\DeepLearning\cat_vs_dog\
    resnet_no_attention.py", line 212, in train_model
125   File "E:\miniconda3\envs\pytorch\Lib\site-packages
    \matplotlib\pyplot.py", line 3794, in plot
126     return gca().plot(
127   File "E:\miniconda3\envs\pytorch\Lib\site-packages
    \matplotlib\axes\_axes.py", line 1779, in plot
128     lines = [*self._get_lines(self, *args, data=data
    , **kwargs)]
129   File "E:\miniconda3\envs\pytorch\Lib\site-packages
    \matplotlib\axes\_base.py", line 296, in __call__
130     yield from self._plot_args(
131   File "E:\miniconda3\envs\pytorch\Lib\site-packages
    \matplotlib\axes\_base.py", line 478, in _plot_args
132     x, y = index_of(xy[-1])
133   File "E:\miniconda3\envs\pytorch\Lib\site-packages
    \matplotlib\cbook.py", line 1719, in index_of
134     y = _check_1d(y)
```

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135   File "E:\miniconda3\envs\pytorch\Lib\site-packages
    \matplotlib\cbook.py", line 1411, in _check_1d
136     return np.atleast_1d(x)
137   File "E:\miniconda3\envs\pytorch\Lib\site-packages
    \numpy\core\shape_base.py", line 65, in atleast_1d
138     ary = asanyarray(ary)
139   File "E:\miniconda3\envs\pytorch\Lib\site-packages
    \torch\_tensor.py", line 1225, in __array__
140     return self.numpy()
141 TypeError: can't convert cuda:0 device type tensor
    to numpy. Use Tensor.cpu() to copy the tensor to
    host memory first.
142
143 □□□□□□□□□□□ 1
144
```