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1 D:\Download\Anaconda3\envs\graduation\python.exe "D:\Download\JetBrains\PyCharm 2019.3.3\plugins\python\helpers\pydev\
pydevd.py" --multiproc --qt-support=auto --client 127.0.0.1 --port 8949 --file E:/Projects/graduation/ResNet-PyTorch-CIFAR10-
master/myMain.py --res-option=B --batch-size=128 -n=7
2 pydev debugger: process 11520 is connecting
3
4 Connected to pydev debugger (build 193.6494.30)
5 Parameter count: 21418570
6 Training for 20 epochs with learning rate 0.100000
7 Starting epoch 1 / 20
8 On Training Set
9 t = 100, loss = 1.7123
10 t = 200, loss = 1.6665
11 t = 300, loss = 1.9133
12 Got 17750 / 45000 correct (39.44%)
13 On Validation Set Got 2130 / 5000 correct (42.60%)
14 Starting epoch 2 / 20
15 On Training Set
16 t = 100, loss = 1.7650
17 t = 200, loss = 1.3468
18 t = 300, loss = 1.3029
19 Got 21942 / 45000 correct (48.76%)
20 On Validation Set Got 2882 / 5000 correct (57.64%)
21 Starting epoch 3 / 20
22 On Training Set
23 t = 100, loss = 1.2372
24 t = 200, loss = 1.2251
25 t = 300, loss = 1.4996
26 Got 24977 / 45000 correct (55.50%)
27 On Validation Set Got 2580 / 5000 correct (51.60%)
28 Starting epoch 4 / 20
29 On Training Set
30 t = 100, loss = 1.2548
31 t = 200, loss = 0.9987
32 t = 300, loss = 1.0952
33 Got 26453 / 45000 correct (58.78%)
34 On Validation Set Got 3144 / 5000 correct (62.88%)
35 Starting epoch 5 / 20
36 On Training Set
37 t = 100, loss = 1.0410
38 t = 200, loss = 0.9289
39 t = 300, loss = 1.3980
40 Got 28139 / 45000 correct (62.53%)
41 On Validation Set Got 1362 / 5000 correct (27.24%)
42 Starting epoch 6 / 20
43 On Training Set
44 t = 100, loss = 1.2442
45 t = 200, loss = 1.1199
46 t = 300, loss = 1.4939
47 Got 24951 / 45000 correct (55.45%)
48 On Validation Set Got 3160 / 5000 correct (63.20%)
49 Starting epoch 7 / 20
50 On Training Set
51 t = 100, loss = 1.2443
52 t = 200, loss = 0.9173
53 t = 300, loss = 1.1463
54 Got 29250 / 45000 correct (65.00%)
55 On Validation Set Got 3132 / 5000 correct (62.64%)
56 Starting epoch 8 / 20
57 On Training Set
58 t = 100, loss = 0.9371
59 t = 200, loss = 0.8187
60 t = 300, loss = 1.1442
61 Got 30726 / 45000 correct (68.28%)
62 On Validation Set Got 3395 / 5000 correct (67.90%)
63 Starting epoch 9 / 20
64 On Training Set
65 t = 100, loss = 0.9759
66 t = 200, loss = 0.8956
67 t = 300, loss = 1.0539
68 Got 30587 / 45000 correct (67.97%)
69 On Validation Set Got 3506 / 5000 correct (70.12%)
70 Starting epoch 10 / 20
71 On Training Set
72 t = 100, loss = 0.9276
73 t = 200, loss = 0.9164
74 t = 300, loss = 0.9018
75 Got 31978 / 45000 correct (71.06%)
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76 On Validation Set Got 3622 / 5000 correct (72.44%)
77 Starting epoch 11 / 20
78 On Training Set
79 t = 100, loss = 1.0111
80 t = 200, loss = 0.6987
81 t = 300, loss = 0.9328
82 Got 32902 / 45000 correct (73.12%)
83 On Validation Set Got 3654 / 5000 correct (73.08%)
84 Starting epoch 12 / 20
85 On Training Set
86 t = 100, loss = 0.7700
87 t = 200, loss = 0.7289
88 t = 300, loss = 0.7933
89 Got 32954 / 45000 correct (73.23%)
90 On Validation Set Got 3700 / 5000 correct (74.00%)
91 Starting epoch 13 / 20
92 On Training Set
93 t = 100, loss = 0.7535
94 t = 200, loss = 0.6662
95 t = 300, loss = 0.8078
96 Got 33775 / 45000 correct (75.06%)
97 On Validation Set Got 3652 / 5000 correct (73.04%)
98 Starting epoch 14 / 20
99 On Training Set
100 t = 100, loss = 0.7571
101 t = 200, loss = 0.6960
102 t = 300, loss = 0.8412
103 Got 34121 / 45000 correct (75.82%)
104 On Validation Set Got 3754 / 5000 correct (75.08%)
105 Starting epoch 15 / 20
106 On Training Set
107 t = 100, loss = 0.7861
108 t = 200, loss = 0.5938
109 t = 300, loss = 0.7876
110 Got 34555 / 45000 correct (76.79%)
111 On Validation Set Got 3821 / 5000 correct (76.42%)
112 Starting epoch 16 / 20
113 On Training Set
114 t = 100, loss = 0.6829
115 t = 200, loss = 0.6067
116 t = 300, loss = 0.8169
117 Got 34319 / 45000 correct (76.26%)
118 On Validation Set Got 3574 / 5000 correct (71.48%)
119 Starting epoch 17 / 20
120 On Training Set
121 t = 100, loss = 0.7677
122 t = 200, loss = 0.6419
123 t = 300, loss = 0.7874
124 Got 34556 / 45000 correct (76.79%)
125 On Validation Set Got 3831 / 5000 correct (76.62%)
126 Starting epoch 18 / 20
127 On Training Set
128 t = 100, loss = 0.6275
129 t = 200, loss = 0.5918
130 t = 300, loss = 0.6576
131 Got 35146 / 45000 correct (78.10%)
132 On Validation Set Got 3904 / 5000 correct (78.08%)
133 Starting epoch 19 / 20
134 On Training Set
135 t = 100, loss = 0.7699
136 t = 200, loss = 0.6559
137 t = 300, loss = 0.6384
138 Got 35367 / 45000 correct (78.59%)
139 On Validation Set Got 3887 / 5000 correct (77.74%)
140 Starting epoch 20 / 20
141 On Training Set
142 t = 100, loss = 0.6146
143 t = 200, loss = 0.5595
144 t = 300, loss = 0.6714
145 Got 35618 / 45000 correct (79.15%)
146 On Validation Set Got 3899 / 5000 correct (77.98%)
147 Training for 10 epochs with learning rate 0.010000
148 Starting epoch 1 / 10
149 On Training Set
150 t = 100, loss = 0.6093
151 t = 200, loss = 0.4387
152 t = 300, loss = 0.4408
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153 Got 37644 / 45000 correct (83.65%)
154 On Validation Set Got 4122 / 5000 correct (82.44%)
155 Starting epoch 2 / 10
156 On Training Set
157 t = 100, loss = 0.4278
158 t = 200, loss = 0.4833
159 t = 300, loss = 0.5212
160 Got 38180 / 45000 correct (84.84%)
161 On Validation Set Got 4097 / 5000 correct (81.94%)
162 Starting epoch 3 / 10
163 On Training Set
164 t = 100, loss = 0.4364
165 t = 200, loss = 0.4304
166 t = 300, loss = 0.4582
167 Got 38537 / 45000 correct (85.64%)
168 On Validation Set Got 4185 / 5000 correct (83.70%)
169 Starting epoch 4 / 10
170 On Training Set
171 t = 100, loss = 0.3600
172 t = 200, loss = 0.5230
173 t = 300, loss = 0.5102
174 Got 38616 / 45000 correct (85.81%)
175 On Validation Set Got 4150 / 5000 correct (83.00%)
176 Starting epoch 5 / 10
177 On Training Set
178 t = 100, loss = 0.5325
179 t = 200, loss = 0.4359
180 t = 300, loss = 0.4498
181 Got 38841 / 45000 correct (86.31%)
182 On Validation Set Got 4148 / 5000 correct (82.96%)
183 Starting epoch 6 / 10
184 On Training Set
185 t = 100, loss = 0.3616
186 t = 200, loss = 0.4120
187 t = 300, loss = 0.4533
188 Got 38990 / 45000 correct (86.64%)
189 On Validation Set Got 4191 / 5000 correct (83.82%)
190 Starting epoch 7 / 10
191 On Training Set
192 t = 100, loss = 0.3791
193 t = 200, loss = 0.4602
194 t = 300, loss = 0.3503
195 Got 39152 / 45000 correct (87.00%)
196 On Validation Set Got 4129 / 5000 correct (82.58%)
197 Starting epoch 8 / 10
198 On Training Set
199 t = 100, loss = 0.3583
200 t = 200, loss = 0.3841
201 t = 300, loss = 0.4305
202 Got 39251 / 45000 correct (87.22%)
203 On Validation Set Got 4197 / 5000 correct (83.94%)
204 Starting epoch 9 / 10
205 On Training Set
206 t = 100, loss = 0.3271
207 t = 200, loss = 0.3962
208 t = 300, loss = 0.4084
209 Got 39216 / 45000 correct (87.15%)
210 On Validation Set Got 4187 / 5000 correct (83.74%)
211 Starting epoch 10 / 10
212 On Training Set
213 t = 100, loss = 0.4066
214 t = 200, loss = 0.4063
215 t = 300, loss = 0.4436
216 Got 39537 / 45000 correct (87.86%)
217 On Validation Set Got 4197 / 5000 correct (83.94%)
218 Training for 10 epochs with learning rate 0.001000
219 Starting epoch 1 / 10
220 On Training Set
221 t = 100, loss = 0.3352
222 t = 200, loss = 0.3767
223 t = 300, loss = 0.4204
224 Got 39672 / 45000 correct (88.16%)
225 On Validation Set Got 4193 / 5000 correct (83.86%)
226 Starting epoch 2 / 10
227 On Training Set
228 t = 100, loss = 0.4312
229 t = 200, loss = 0.2900
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230 t = 300, loss = 0.3487
231 Got 39879 / 45000 correct (88.62%)
232 On Validation Set Got 4212 / 5000 correct (84.24%)
233 Starting epoch 3 / 10
234 On Training Set
235 t = 100, loss = 0.2940
236 t = 200, loss = 0.3625
237 t = 300, loss = 0.4119
238 Got 39898 / 45000 correct (88.66%)
239 On Validation Set Got 4225 / 5000 correct (84.50%)
240 Starting epoch 4 / 10
241 On Training Set
242 t = 100, loss = 0.3310
243 t = 200, loss = 0.3970
244 t = 300, loss = 0.4342
245 Got 39847 / 45000 correct (88.55%)
246 On Validation Set Got 4216 / 5000 correct (84.32%)
247 Starting epoch 5 / 10
248 On Training Set
249 t = 100, loss = 0.4194
250 t = 200, loss = 0.3441
251 t = 300, loss = 0.3070
252 Got 39926 / 45000 correct (88.72%)
253 On Validation Set Got 4247 / 5000 correct (84.94%)
254 Starting epoch 6 / 10
255 On Training Set
256 t = 100, loss = 0.3256
257 t = 200, loss = 0.4446
258 t = 300, loss = 0.3625
259 Got 40016 / 45000 correct (88.92%)
260 On Validation Set Got 4227 / 5000 correct (84.54%)
261 Starting epoch 7 / 10
262 On Training Set
263 t = 100, loss = 0.2760
264 t = 200, loss = 0.4107
265 t = 300, loss = 0.3048
266 Got 39948 / 45000 correct (88.77%)
267 On Validation Set Got 4216 / 5000 correct (84.32%)
268 Starting epoch 8 / 10
269 On Training Set
270 t = 100, loss = 0.3550
271 t = 200, loss = 0.3551
272 t = 300, loss = 0.3124
273 Got 39875 / 45000 correct (88.61%)
274 On Validation Set Got 4245 / 5000 correct (84.90%)
275 Starting epoch 9 / 10
276 On Training Set
277 t = 100, loss = 0.3209
278 t = 200, loss = 0.3915
279 t = 300, loss = 0.3757
280 Got 40021 / 45000 correct (88.94%)
281 On Validation Set Got 4200 / 5000 correct (84.00%)
282 Starting epoch 10 / 10
283 On Training Set
284 t = 100, loss = 0.3757
285 t = 200, loss = 0.3690
286 t = 300, loss = 0.3565
287 Got 40046 / 45000 correct (88.99%)
288 On Validation Set Got 4176 / 5000 correct (83.52%)
289 Best Performance On Valid Set at Epoch 35 with Accuracy 84.94%
290 Final test accuracy:
291 Got 8413 / 10000 correct (84.13%)
292
293 Process finished with exit code 0
294
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