

gpu is available

Epoch 0/99 d:\Anaconda\envs\Controlnet\lib\site-packages\torch\nn\functional.py:5504: UserWarning: 1Torch was not compiled with flash attention. (Triggered internally at C:\cb\pytorch_1000000000000\work\aten\src\ATen\native\transformers\cuda\sdp_utils.cpp:455.)

attn_output = scaled_dot_product_attention(q, k, v, attn_mask, dropout_p, is_causal)

train Loss: 2.4343 Acc: 0.1500 val Loss: 2.2468 Acc: 0.2064

Epoch	1/99	train Loss: 2.2571	Acc: 0.2034	val Loss: 2.3332	Acc: 0.1941
Epoch	2/99	train Loss: 2.2555	Acc: 0.1881	val Loss: 2.1968	Acc: 0.2211
Epoch	3/99	train Loss: 2.1793	Acc: 0.2237	val Loss: 2.1372	Acc: 0.2285
Epoch	4/99	train Loss: 2.1488	Acc: 0.2293	val Loss: 2.0677	Acc: 0.2703
Epoch	5/99	train Loss: 2.1439	Acc: 0.2379	val Loss: 2.0747	Acc: 0.2826
Epoch	6/99	train Loss: 2.0955	Acc: 0.2526	val Loss: 2.0171	Acc: 0.3047
Epoch	7/99	train Loss: 2.0655	Acc: 0.2698	val Loss: 2.0798	Acc: 0.2555
Epoch	8/99	train Loss: 2.0558	Acc: 0.2815	val Loss: 2.0876	Acc: 0.2703
Epoch	9/99	train Loss: 2.0308	Acc: 0.2993	val Loss: 2.0406	Acc: 0.2654
Epoch	10/99	train Loss: 2.0213	Acc: 0.2981	val Loss: 2.0399	Acc: 0.2924
Epoch	11/99	train Loss: 1.9851	Acc: 0.3049	val Loss: 1.9445	Acc: 0.3317
Epoch	12/99	train Loss: 1.9937	Acc: 0.3006	val Loss: 1.9619	Acc: 0.3120
Epoch	13/99	train Loss: 1.9619	Acc: 0.3331	val Loss: 1.9744	Acc: 0.3096
Epoch	14/99	train Loss: 1.9688	Acc: 0.3079	val Loss: 1.9397	Acc: 0.3292
Epoch	15/99	train Loss: 1.9611	Acc: 0.3128	val Loss: 1.9501	Acc: 0.3194
Epoch	16/99	train Loss: 1.9270	Acc: 0.3344	val Loss: 1.9358	Acc: 0.3366
Epoch	17/99	train Loss: 1.9075	Acc: 0.3374	val Loss: 1.9383	Acc: 0.3219
Epoch	18/99	train Loss: 1.8812	Acc: 0.3417	val Loss: 1.9726	Acc: 0.2899
Epoch	19/99	train Loss: 1.8845	Acc: 0.3399	val Loss: 1.9432	Acc: 0.3268
Epoch	20/99	train Loss: 1.8898	Acc: 0.3399	val Loss: 1.9314	Acc: 0.3145
Epoch	21/99	train Loss: 1.8892	Acc: 0.3337	val Loss: 1.9042	Acc: 0.3342
Epoch	22/99	train Loss: 1.8660	Acc: 0.3460	val Loss: 1.8771	Acc: 0.3342
Epoch	23/99	train Loss: 1.9002	Acc: 0.3288	val Loss: 1.9117	Acc: 0.3489
Epoch	24/99	train Loss: 1.8260	Acc: 0.3516	val Loss: 1.8769	Acc: 0.3366
Epoch	25/99	train Loss: 1.8202	Acc: 0.3675	val Loss: 1.9510	Acc: 0.3219
Epoch	26/99	train Loss: 1.8072	Acc: 0.3762	val Loss: 1.9906	Acc: 0.2973
Epoch	27/99	train Loss: 1.7939	Acc: 0.3854	val Loss: 1.9091	Acc: 0.3342
Epoch	28/99	train Loss: 1.7854	Acc: 0.3903	val Loss: 1.8750	Acc: 0.3563

Epoch 29/99 train Loss: 1.7708 Acc: 0.3848 val Loss: 1.9364 Acc: 0.3170
Epoch 30/99 train Loss: 1.7793 Acc: 0.3731 val Loss: 1.8631 Acc: 0.3636
Epoch 31/99 train Loss: 1.7620 Acc: 0.3805 val Loss: 1.9122 Acc: 0.3440
Epoch 32/99 train Loss: 1.7365 Acc: 0.3952 val Loss: 1.9272 Acc: 0.3219
Epoch 33/99 train Loss: 1.7262 Acc: 0.3921 val Loss: 1.8946 Acc: 0.3342
Epoch 34/99 train Loss: 1.7357 Acc: 0.3878 val Loss: 1.8631 Acc: 0.3636
Epoch 35/99 train Loss: 1.7086 Acc: 0.4026 val Loss: 1.8582 Acc: 0.3317
Epoch 36/99 train Loss: 1.6867 Acc: 0.4093 val Loss: 1.9907 Acc: 0.3514
Epoch 37/99 train Loss: 1.6786 Acc: 0.3995 val Loss: 2.0013 Acc: 0.3391
Epoch 38/99 train Loss: 1.6910 Acc: 0.4100 val Loss: 1.8459 Acc: 0.3735
Epoch 39/99 train Loss: 1.6480 Acc: 0.4253 val Loss: 1.9280 Acc: 0.3415
Epoch 40/99 train Loss: 1.6355 Acc: 0.4155 val Loss: 1.9062 Acc: 0.3317
Epoch 41/99 train Loss: 1.6372 Acc: 0.4173 val Loss: 1.8981 Acc: 0.3317
Epoch 42/99 train Loss: 1.5977 Acc: 0.4321 val Loss: 1.8539 Acc: 0.3292
Epoch 43/99 train Loss: 1.6000 Acc: 0.4419 val Loss: 1.9158 Acc: 0.3587
Epoch 44/99 train Loss: 1.5980 Acc: 0.4382 val Loss: 1.9419 Acc: 0.3686
Epoch 45/99 train Loss: 1.5759 Acc: 0.4438 val Loss: 1.9638 Acc: 0.3268
Epoch 46/99 train Loss: 1.5847 Acc: 0.4450 val Loss: 1.9057 Acc: 0.3415
Epoch 47/99 train Loss: 1.5592 Acc: 0.4499 val Loss: 1.9559 Acc: 0.3170
Epoch 48/99 train Loss: 1.6037 Acc: 0.4413 val Loss: 1.9568 Acc: 0.3194
Epoch 49/99 train Loss: 1.5748 Acc: 0.4395 val Loss: 1.9316 Acc: 0.3194
Epoch 50/99 train Loss: 1.5611 Acc: 0.4554 val Loss: 1.8924 Acc: 0.3464
Epoch 51/99 train Loss: 1.5317 Acc: 0.4690 val Loss: 1.8735 Acc: 0.3366
Epoch 52/99 train Loss: 1.4625 Acc: 0.4757 val Loss: 1.9029 Acc: 0.3391
Epoch 53/99 train Loss: 1.4489 Acc: 0.4726 val Loss: 1.8754 Acc: 0.3735
Epoch 54/99 train Loss: 1.4560 Acc: 0.4868 val Loss: 1.9046 Acc: 0.3538
Epoch 55/99 train Loss: 1.4460 Acc: 0.5046 val Loss: 2.0052 Acc: 0.3784
Epoch 56/99 train Loss: 1.4573 Acc: 0.5009 val Loss: 1.9856 Acc: 0.3342
Epoch 57/99 train Loss: 1.4172 Acc: 0.4917 val Loss: 1.9251 Acc: 0.3759
Epoch 58/99 train Loss: 1.4250 Acc: 0.4991 val Loss: 1.9162 Acc: 0.3636
Epoch 59/99 train Loss: 1.3946 Acc: 0.5028 val Loss: 1.9425 Acc: 0.3686

Training complete in 40m 35s

Best val Acc: 0.378378

Fold 1 test Loss: 1.9979 Acc: 0.3143

Epoch 0/99 train Loss: 2.5697 Acc: 0.1094 val Loss: 2.4322 Acc: 0.1081
Epoch 1/99 train Loss: 2.3573 Acc: 0.1512 val Loss: 2.3566 Acc: 0.1720
Epoch 2/99 train Loss: 2.2941 Acc: 0.1573 val Loss: 2.2477 Acc: 0.1794

Epoch	3/99	train Loss: 2.2407	Acc: 0.1924	val Loss: 2.1772	Acc: 0.2334
Epoch	4/99	train Loss: 2.2322	Acc: 0.1881	val Loss: 2.1987	Acc: 0.2285
Epoch	5/99	train Loss: 2.1870	Acc: 0.2034	val Loss: 2.1682	Acc: 0.1966
Epoch	6/99	train Loss: 2.1574	Acc: 0.2139	val Loss: 2.1416	Acc: 0.2285
Epoch	7/99	train Loss: 2.1384	Acc: 0.2157	val Loss: 2.1425	Acc: 0.2162
Epoch	8/99	train Loss: 2.1360	Acc: 0.2342	val Loss: 2.1402	Acc: 0.2310
Epoch	9/99	train Loss: 2.0961	Acc: 0.2397	val Loss: 2.1137	Acc: 0.2310
Epoch	10/99	train Loss: 2.0980	Acc: 0.2575	val Loss: 2.0506	Acc: 0.2776
Epoch	11/99	train Loss: 2.0643	Acc: 0.2624	val Loss: 2.0415	Acc: 0.2826
Epoch	12/99	train Loss: 2.1114	Acc: 0.2440	val Loss: 2.1386	Acc: 0.2604
Epoch	13/99	train Loss: 2.0419	Acc: 0.2827	val Loss: 2.0544	Acc: 0.2899
Epoch	14/99	train Loss: 2.0764	Acc: 0.2624	val Loss: 2.0291	Acc: 0.3071
Epoch	15/99	train Loss: 2.0406	Acc: 0.2667	val Loss: 2.0466	Acc: 0.2826
Epoch	16/99	train Loss: 2.0043	Acc: 0.2840	val Loss: 2.0785	Acc: 0.2899
Epoch	17/99	train Loss: 1.9751	Acc: 0.3018	val Loss: 1.9789	Acc: 0.3415
Epoch	18/99	train Loss: 1.9959	Acc: 0.2840	val Loss: 2.0533	Acc: 0.2948
Epoch	19/99	train Loss: 1.9676	Acc: 0.2956	val Loss: 2.0178	Acc: 0.3022
Epoch	20/99	train Loss: 1.9438	Acc: 0.3128	val Loss: 2.0170	Acc: 0.3170
Epoch	21/99	train Loss: 1.9614	Acc: 0.3067	val Loss: 1.9712	Acc: 0.3243
Epoch	22/99	train Loss: 1.9466	Acc: 0.3042	val Loss: 1.9962	Acc: 0.2998
Epoch	23/99	train Loss: 1.9250	Acc: 0.3141	val Loss: 2.0356	Acc: 0.2801
Epoch	24/99	train Loss: 1.9535	Acc: 0.3049	val Loss: 1.9692	Acc: 0.3342
Epoch	25/99	train Loss: 1.9038	Acc: 0.3294	val Loss: 2.0470	Acc: 0.2899
Epoch	26/99	train Loss: 1.9099	Acc: 0.3227	val Loss: 1.9642	Acc: 0.3268
Epoch	27/99	train Loss: 1.8954	Acc: 0.3239	val Loss: 1.9330	Acc: 0.3440
Epoch	28/99	train Loss: 1.8873	Acc: 0.3368	val Loss: 1.9434	Acc: 0.3292
Epoch	29/99	train Loss: 1.8815	Acc: 0.3387	val Loss: 1.9712	Acc: 0.3047
Epoch	30/99	train Loss: 1.8591	Acc: 0.3288	val Loss: 1.9615	Acc: 0.3170
Epoch	31/99	train Loss: 1.8556	Acc: 0.3516	val Loss: 1.9618	Acc: 0.3268
Epoch	32/99	train Loss: 1.8607	Acc: 0.3307	val Loss: 1.9950	Acc: 0.3120
Epoch	33/99	train Loss: 1.8485	Acc: 0.3467	val Loss: 1.9813	Acc: 0.3440
Epoch	34/99	train Loss: 1.8346	Acc: 0.3485	val Loss: 1.8790	Acc: 0.3415
Epoch	35/99	train Loss: 1.8163	Acc: 0.3620	val Loss: 1.9226	Acc: 0.3759
Epoch	36/99	train Loss: 1.8202	Acc: 0.3430	val Loss: 1.9613	Acc: 0.3292
Epoch	37/99	train Loss: 1.7784	Acc: 0.3608	val Loss: 1.9877	Acc: 0.3489
Epoch	38/99	train Loss: 1.7744	Acc: 0.3675	val Loss: 1.9389	Acc: 0.3415
Epoch	39/99	train Loss: 1.7838	Acc: 0.3706	val Loss: 1.9549	Acc: 0.3243
Epoch	40/99	train Loss: 1.8199	Acc: 0.3405	val Loss: 1.9668	Acc: 0.3415

Epoch 41/99 train Loss: 1.8116 Acc: 0.3534 val Loss: 1.9311 Acc: 0.3489
Epoch 42/99 train Loss: 1.7717 Acc: 0.3651 val Loss: 1.9977 Acc: 0.3145
Epoch 43/99 train Loss: 1.7605 Acc: 0.3983 val Loss: 1.9609 Acc: 0.3661
Epoch 44/99 train Loss: 1.7316 Acc: 0.3829 val Loss: 1.9387 Acc: 0.3440
Epoch 45/99 train Loss: 1.7379 Acc: 0.3743 val Loss: 2.0191 Acc: 0.3563
Epoch 46/99 train Loss: 1.7232 Acc: 0.3989 val Loss: 1.9231 Acc: 0.3391
Epoch 47/99 train Loss: 1.7061 Acc: 0.3903 val Loss: 1.8914 Acc: 0.3833
Epoch 48/99 train Loss: 1.7422 Acc: 0.3866 val Loss: 1.9058 Acc: 0.3563
Epoch 49/99 train Loss: 1.6896 Acc: 0.3995 val Loss: 1.9350 Acc: 0.3857
Epoch 50/99 train Loss: 1.7091 Acc: 0.3878 val Loss: 1.9826 Acc: 0.3366
Epoch 51/99 train Loss: 1.6628 Acc: 0.4087 val Loss: 1.9566 Acc: 0.3661
Epoch 52/99 train Loss: 1.7522 Acc: 0.3817 val Loss: 1.9607 Acc: 0.3636
Epoch 53/99 train Loss: 1.6914 Acc: 0.3878 val Loss: 1.8819 Acc: 0.3489
Epoch 54/99 train Loss: 1.6486 Acc: 0.4247 val Loss: 2.0412 Acc: 0.3391
Epoch 55/99 train Loss: 1.6708 Acc: 0.4173 val Loss: 1.8954 Acc: 0.3686

Training complete in 37m 53s

Best val Acc: 0.385749

Fold 2 test Loss: 1.9794 Acc: 0.3242

Epoch 0/99 train Loss: 2.4253 Acc: 0.1407 val Loss: 2.2348 Acc: 0.1916
Epoch 1/99 train Loss: 2.2444 Acc: 0.1911 val Loss: 2.2205 Acc: 0.1990
Epoch 2/99 train Loss: 2.2289 Acc: 0.2145 val Loss: 2.2897 Acc: 0.1867
Epoch 3/99 train Loss: 2.1985 Acc: 0.2053 val Loss: 2.2123 Acc: 0.2015
Epoch 4/99 train Loss: 2.1441 Acc: 0.2397 val Loss: 2.1983 Acc: 0.2015
Epoch 5/99 train Loss: 2.1124 Acc: 0.2471 val Loss: 2.1633 Acc: 0.1966
Epoch 6/99 train Loss: 2.0850 Acc: 0.2538 val Loss: 2.0886 Acc: 0.2973
Epoch 7/99 train Loss: 2.2454 Acc: 0.2071 val Loss: 2.4355 Acc: 0.1794
Epoch 8/99 train Loss: 2.3174 Acc: 0.1672 val Loss: 2.3498 Acc: 0.1253
Epoch 9/99 train Loss: 2.3174 Acc: 0.1709 val Loss: 2.3103 Acc: 0.1523
Epoch 10/99 train Loss: 2.2411 Acc: 0.2090 val Loss: 2.2857 Acc: 0.1695
Epoch 11/99 train Loss: 2.2110 Acc: 0.2108 val Loss: 2.2144 Acc: 0.1966
Epoch 12/99 train Loss: 2.1757 Acc: 0.2237 val Loss: 2.2315 Acc: 0.2088
Epoch 13/99 train Loss: 2.1751 Acc: 0.2213 val Loss: 2.1819 Acc: 0.2088
Epoch 14/99 train Loss: 2.1190 Acc: 0.2477 val Loss: 2.1874 Acc: 0.2531
Epoch 15/99 train Loss: 2.1201 Acc: 0.2459 val Loss: 2.1014 Acc: 0.2629
Epoch 16/99 train Loss: 2.0829 Acc: 0.2711 val Loss: 2.0936 Acc: 0.2604
Epoch 17/99 train Loss: 2.0979 Acc: 0.2581 val Loss: 2.1131 Acc: 0.2654
Epoch 18/99 train Loss: 2.0863 Acc: 0.2618 val Loss: 2.0842 Acc: 0.2703

Epoch 19/99 train Loss: 2.0769 Acc: 0.2655 val Loss: 2.0681 Acc: 0.2973
Epoch 20/99 train Loss: 2.0380 Acc: 0.2950 val Loss: 2.1210 Acc: 0.2580
Epoch 21/99 train Loss: 2.0700 Acc: 0.2631 val Loss: 2.1351 Acc: 0.2383
Epoch 22/99 train Loss: 2.0535 Acc: 0.2784 val Loss: 2.0773 Acc: 0.2801
Epoch 23/99 train Loss: 2.0315 Acc: 0.2913 val Loss: 2.0487 Acc: 0.2776
Epoch 24/99 train Loss: 1.9990 Acc: 0.2858 val Loss: 2.1444 Acc: 0.2727
Epoch 25/99 train Loss: 2.0201 Acc: 0.2895 val Loss: 2.0923 Acc: 0.2826
Epoch 26/99 train Loss: 1.9838 Acc: 0.3092 val Loss: 2.0410 Acc: 0.2973
Epoch 27/99 train Loss: 1.9834 Acc: 0.2950 val Loss: 2.0047 Acc: 0.3194
Epoch 28/99 train Loss: 1.9539 Acc: 0.2981 val Loss: 2.1272 Acc: 0.2703
Epoch 29/99 train Loss: 1.9934 Acc: 0.2981 val Loss: 2.0440 Acc: 0.2948
Epoch 30/99 train Loss: 1.9504 Acc: 0.3221 val Loss: 2.0356 Acc: 0.3317
Epoch 31/99 train Loss: 1.9652 Acc: 0.3141 val Loss: 2.0014 Acc: 0.2875
Epoch 32/99 train Loss: 1.9445 Acc: 0.3092 val Loss: 2.0511 Acc: 0.3170
Epoch 33/99 train Loss: 1.9299 Acc: 0.3184 val Loss: 2.0151 Acc: 0.3170
Epoch 34/99 train Loss: 1.9679 Acc: 0.3098 val Loss: 1.9867 Acc: 0.3268
Epoch 35/99 train Loss: 1.9234 Acc: 0.3208 val Loss: 2.0780 Acc: 0.2924
Epoch 36/99 train Loss: 1.9101 Acc: 0.3350 val Loss: 2.0088 Acc: 0.3292
Epoch 37/99 train Loss: 1.9228 Acc: 0.3233 val Loss: 2.0605 Acc: 0.2948
Epoch 38/99 train Loss: 1.9275 Acc: 0.3307 val Loss: 1.9878 Acc: 0.3292
Epoch 39/99 train Loss: 1.9186 Acc: 0.3288 val Loss: 2.0493 Acc: 0.2875
Epoch 40/99 train Loss: 1.9461 Acc: 0.3337 val Loss: 2.0429 Acc: 0.3022
Epoch 41/99 train Loss: 1.9319 Acc: 0.3380 val Loss: 1.9827 Acc: 0.3415
Epoch 42/99 train Loss: 1.8639 Acc: 0.3325 val Loss: 1.9863 Acc: 0.3170
Epoch 43/99 train Loss: 1.8783 Acc: 0.3190 val Loss: 2.0617 Acc: 0.2826
Epoch 44/99 train Loss: 1.8789 Acc: 0.3356 val Loss: 2.0023 Acc: 0.3366
Epoch 45/99 train Loss: 1.8994 Acc: 0.3301 val Loss: 1.9675 Acc: 0.3317
Epoch 46/99 train Loss: 1.8563 Acc: 0.3473 val Loss: 1.9305 Acc: 0.3464
Epoch 47/99 train Loss: 1.8439 Acc: 0.3583 val Loss: 1.9625 Acc: 0.3096
Epoch 48/99 train Loss: 1.8464 Acc: 0.3620 val Loss: 1.9680 Acc: 0.3415
Epoch 49/99 train Loss: 1.8499 Acc: 0.3362 val Loss: 1.9594 Acc: 0.3096
Epoch 50/99 train Loss: 1.8518 Acc: 0.3510 val Loss: 1.9583 Acc: 0.3145
Epoch 51/99 train Loss: 1.8387 Acc: 0.3510 val Loss: 1.9467 Acc: 0.3292
Epoch 52/99 train Loss: 1.7772 Acc: 0.3749 val Loss: 1.9514 Acc: 0.3440
Epoch 53/99 train Loss: 1.7583 Acc: 0.3694 val Loss: 1.9656 Acc: 0.3292
Epoch 54/99 train Loss: 1.8018 Acc: 0.3663 val Loss: 1.9637 Acc: 0.3514
Epoch 55/99 train Loss: 1.8080 Acc: 0.3669 val Loss: 1.9953 Acc: 0.3464
Epoch 56/99 train Loss: 1.7764 Acc: 0.3823 val Loss: 1.9128 Acc: 0.3563

Epoch 57/99 train Loss: 1.7848 Acc: 0.3694 val Loss: 1.9984 Acc: 0.3145
Epoch 58/99 train Loss: 1.7611 Acc: 0.3866 val Loss: 1.9615 Acc: 0.3342
Epoch 59/99 train Loss: 1.8246 Acc: 0.3559 val Loss: 1.9604 Acc: 0.3145
Epoch 60/99 train Loss: 1.7597 Acc: 0.3682 val Loss: 2.0039 Acc: 0.3120
Epoch 61/99 train Loss: 1.7338 Acc: 0.3977 val Loss: 1.9071 Acc: 0.3636
Epoch 62/99 train Loss: 1.7090 Acc: 0.4069 val Loss: 1.9465 Acc: 0.3391
Epoch 63/99 train Loss: 1.7262 Acc: 0.4020 val Loss: 1.9839 Acc: 0.3415
Epoch 64/99 train Loss: 1.7095 Acc: 0.3952 val Loss: 1.9987 Acc: 0.3538
Epoch 65/99 train Loss: 1.7442 Acc: 0.3798 val Loss: 1.8670 Acc: 0.3735
Epoch 66/99 train Loss: 1.7059 Acc: 0.4026 val Loss: 1.9364 Acc: 0.3514
Epoch 67/99 train Loss: 1.7084 Acc: 0.4075 val Loss: 1.8896 Acc: 0.3686
Epoch 68/99 train Loss: 1.6989 Acc: 0.4032 val Loss: 1.9178 Acc: 0.3317
Epoch 69/99 train Loss: 1.7101 Acc: 0.3817 val Loss: 1.9175 Acc: 0.3538
Epoch 70/99 train Loss: 1.6574 Acc: 0.4155 val Loss: 1.8602 Acc: 0.3833
Epoch 71/99 train Loss: 1.6161 Acc: 0.4327 val Loss: 2.0433 Acc: 0.3170
Epoch 72/99 train Loss: 1.6406 Acc: 0.4167 val Loss: 1.8868 Acc: 0.3563
Epoch 73/99 train Loss: 1.6414 Acc: 0.4124 val Loss: 1.9639 Acc: 0.3219
Epoch 74/99 train Loss: 1.5943 Acc: 0.4364 val Loss: 1.9789 Acc: 0.3440
Epoch 75/99 train Loss: 1.6709 Acc: 0.4241 val Loss: 1.9047 Acc: 0.3268
Epoch 76/99 train Loss: 1.6374 Acc: 0.4327 val Loss: 1.9127 Acc: 0.3391
Epoch 77/99 train Loss: 1.5839 Acc: 0.4376 val Loss: 1.9465 Acc: 0.3710
Epoch 78/99 train Loss: 1.6286 Acc: 0.4241 val Loss: 1.9343 Acc: 0.3710
Epoch 79/99 train Loss: 1.5773 Acc: 0.4481 val Loss: 2.0144 Acc: 0.3292
Epoch 80/99 train Loss: 1.6028 Acc: 0.4302 val Loss: 1.9117 Acc: 0.3563
Epoch 81/99 train Loss: 1.5707 Acc: 0.4315 val Loss: 1.9550 Acc: 0.3587
Epoch 82/99 train Loss: 1.5336 Acc: 0.4653 val Loss: 1.9841 Acc: 0.3342
Epoch 83/99 train Loss: 1.5529 Acc: 0.4561 val Loss: 1.9248 Acc: 0.3612
Epoch 84/99 train Loss: 1.5564 Acc: 0.4481 val Loss: 1.9477 Acc: 0.3317
Epoch 85/99 train Loss: 1.5002 Acc: 0.4745 val Loss: 1.9876 Acc: 0.3612
Epoch 86/99 train Loss: 1.5116 Acc: 0.4493 val Loss: 1.9262 Acc: 0.3686
Epoch 87/99 train Loss: 1.5200 Acc: 0.4622 val Loss: 1.9098 Acc: 0.3538
Epoch 88/99 train Loss: 1.4987 Acc: 0.4677 val Loss: 1.9818 Acc: 0.3415
Epoch 89/99 train Loss: 1.4756 Acc: 0.4671 val Loss: 1.9973 Acc: 0.3366
Epoch 90/99 train Loss: 1.4706 Acc: 0.4770 val Loss: 1.9499 Acc: 0.3415
Epoch 91/99 train Loss: 1.5303 Acc: 0.4554 val Loss: 1.9905 Acc: 0.3292
Training complete in 62m 13s
Best val Acc: 0.383292
Fold 3 test Loss: 1.9566 Acc: 0.3360

Epoch	0/99	train Loss: 2.4911	Acc: 0.1357	val Loss: 2.3761	Acc: 0.1106
Epoch	1/99	train Loss: 2.2842	Acc: 0.1812	val Loss: 2.2292	Acc: 0.2432
Epoch	2/99	train Loss: 2.2315	Acc: 0.1916	val Loss: 2.1815	Acc: 0.2482
Epoch	3/99	train Loss: 2.2048	Acc: 0.2082	val Loss: 2.1339	Acc: 0.2334
Epoch	4/99	train Loss: 2.1611	Acc: 0.2383	val Loss: 2.1369	Acc: 0.2015
Epoch	5/99	train Loss: 2.1501	Acc: 0.2359	val Loss: 2.1162	Acc: 0.2531
Epoch	6/99	train Loss: 2.1095	Acc: 0.2574	val Loss: 2.0949	Acc: 0.2826
Epoch	7/99	train Loss: 2.0904	Acc: 0.2543	val Loss: 2.0545	Acc: 0.3120
Epoch	8/99	train Loss: 2.2789	Acc: 0.1720	val Loss: 2.3698	Acc: 0.1597
Epoch	9/99	train Loss: 2.3312	Acc: 0.1665	val Loss: 2.3079	Acc: 0.1867
Epoch	10/99	train Loss: 2.4168	Acc: 0.1652	val Loss: 2.4353	Acc: 0.1179
Epoch	11/99	train Loss: 2.3500	Acc: 0.1585	val Loss: 2.2933	Acc: 0.1744
Epoch	12/99	train Loss: 2.3147	Acc: 0.1732	val Loss: 2.2723	Acc: 0.1966
Epoch	13/99	train Loss: 2.2592	Acc: 0.1787	val Loss: 2.2570	Acc: 0.1916
Epoch	14/99	train Loss: 2.1966	Acc: 0.2101	val Loss: 2.1673	Acc: 0.2334
Epoch	15/99	train Loss: 2.1674	Acc: 0.2260	val Loss: 2.1451	Acc: 0.2482
Epoch	16/99	train Loss: 2.1498	Acc: 0.2322	val Loss: 2.1527	Acc: 0.2432
Epoch	17/99	train Loss: 2.1198	Acc: 0.2469	val Loss: 2.0866	Acc: 0.2604
Epoch	18/99	train Loss: 2.1146	Acc: 0.2439	val Loss: 2.0588	Acc: 0.2875
Epoch	19/99	train Loss: 2.0983	Acc: 0.2383	val Loss: 2.0143	Acc: 0.3120
Epoch	20/99	train Loss: 2.0808	Acc: 0.2604	val Loss: 2.0639	Acc: 0.2604
Epoch	21/99	train Loss: 2.0792	Acc: 0.2592	val Loss: 2.0857	Acc: 0.2383
Epoch	22/99	train Loss: 2.0682	Acc: 0.2709	val Loss: 2.0397	Acc: 0.2924
Epoch	23/99	train Loss: 2.0458	Acc: 0.2801	val Loss: 2.0430	Acc: 0.2850
Epoch	24/99	train Loss: 2.0399	Acc: 0.2813	val Loss: 2.0199	Acc: 0.3243
Epoch	25/99	train Loss: 1.9974	Acc: 0.2991	val Loss: 2.0373	Acc: 0.2850
Epoch	26/99	train Loss: 2.0145	Acc: 0.2979	val Loss: 1.9802	Acc: 0.2850
Epoch	27/99	train Loss: 1.9801	Acc: 0.3145	val Loss: 2.0370	Acc: 0.2654
Epoch	28/99	train Loss: 1.9957	Acc: 0.2967	val Loss: 2.0181	Acc: 0.2678
Epoch	29/99	train Loss: 1.9938	Acc: 0.3096	val Loss: 2.0104	Acc: 0.3219
Epoch	30/99	train Loss: 1.9923	Acc: 0.3016	val Loss: 2.0045	Acc: 0.3145
Epoch	31/99	train Loss: 1.9346	Acc: 0.3256	val Loss: 1.9975	Acc: 0.2973
Epoch	32/99	train Loss: 1.9664	Acc: 0.3139	val Loss: 1.9947	Acc: 0.2752
Epoch	33/99	train Loss: 1.9586	Acc: 0.3157	val Loss: 2.0353	Acc: 0.2875
Epoch	34/99	train Loss: 1.9301	Acc: 0.3206	val Loss: 2.0306	Acc: 0.3219
Epoch	35/99	train Loss: 1.9406	Acc: 0.3219	val Loss: 1.9646	Acc: 0.3219
Epoch	36/99	train Loss: 1.9066	Acc: 0.3360	val Loss: 1.9548	Acc: 0.3022

Epoch 37/99 train Loss: 1.9123 Acc: 0.3366 val Loss: 1.9824 Acc: 0.3268
Epoch 38/99 train Loss: 1.9220 Acc: 0.3366 val Loss: 1.9973 Acc: 0.3145
Epoch 39/99 train Loss: 1.8793 Acc: 0.3403 val Loss: 1.9836 Acc: 0.2850
Epoch 40/99 train Loss: 1.8726 Acc: 0.3557 val Loss: 1.9595 Acc: 0.3071
Epoch 41/99 train Loss: 1.8962 Acc: 0.3428 val Loss: 1.9633 Acc: 0.3292
Epoch 42/99 train Loss: 1.8731 Acc: 0.3514 val Loss: 2.0094 Acc: 0.3292
Epoch 43/99 train Loss: 1.9005 Acc: 0.3262 val Loss: 1.9735 Acc: 0.3317
Epoch 44/99 train Loss: 1.8581 Acc: 0.3471 val Loss: 1.9365 Acc: 0.3120
Epoch 45/99 train Loss: 1.8196 Acc: 0.3649 val Loss: 1.9599 Acc: 0.3096
Epoch 46/99 train Loss: 1.8476 Acc: 0.3434 val Loss: 1.9261 Acc: 0.3292
Epoch 47/99 train Loss: 1.8423 Acc: 0.3630 val Loss: 2.0165 Acc: 0.3292
Epoch 48/99 train Loss: 1.8397 Acc: 0.3618 val Loss: 2.0496 Acc: 0.3194
Epoch 49/99 train Loss: 1.8536 Acc: 0.3520 val Loss: 1.9921 Acc: 0.3194
Epoch 50/99 train Loss: 1.8191 Acc: 0.3587 val Loss: 1.9847 Acc: 0.3071
Epoch 51/99 train Loss: 1.8025 Acc: 0.3735 val Loss: 1.9648 Acc: 0.3440
Epoch 52/99 train Loss: 1.8112 Acc: 0.3618 val Loss: 1.9202 Acc: 0.3440
Epoch 53/99 train Loss: 1.7894 Acc: 0.3747 val Loss: 1.9707 Acc: 0.3047
Epoch 54/99 train Loss: 1.7899 Acc: 0.3692 val Loss: 1.9677 Acc: 0.3170
Epoch 55/99 train Loss: 1.7611 Acc: 0.3882 val Loss: 2.0132 Acc: 0.2924
Epoch 56/99 train Loss: 1.7442 Acc: 0.3802 val Loss: 1.9954 Acc: 0.3219
Epoch 57/99 train Loss: 1.7533 Acc: 0.3857 val Loss: 1.9512 Acc: 0.3440
Epoch 58/99 train Loss: 1.7367 Acc: 0.3839 val Loss: 1.9979 Acc: 0.3415
Epoch 59/99 train Loss: 1.7729 Acc: 0.3833 val Loss: 2.0424 Acc: 0.2948
Epoch 60/99 train Loss: 1.7186 Acc: 0.3974 val Loss: 1.9822 Acc: 0.3292
Epoch 61/99 train Loss: 1.6935 Acc: 0.4091 val Loss: 1.9992 Acc: 0.3219
Epoch 62/99 train Loss: 1.6648 Acc: 0.4201 val Loss: 2.0447 Acc: 0.2998
Epoch 63/99 train Loss: 1.6783 Acc: 0.4103 val Loss: 1.9980 Acc: 0.3440
Epoch 64/99 train Loss: 1.6543 Acc: 0.4189 val Loss: 1.9306 Acc: 0.3489
Epoch 65/99 train Loss: 1.6723 Acc: 0.4220 val Loss: 1.9257 Acc: 0.3292
Epoch 66/99 train Loss: 1.6615 Acc: 0.4232 val Loss: 2.0143 Acc: 0.3342
Epoch 67/99 train Loss: 1.6245 Acc: 0.4195 val Loss: 1.9505 Acc: 0.3489
Epoch 68/99 train Loss: 1.6570 Acc: 0.4183 val Loss: 1.9894 Acc: 0.3735
Epoch 69/99 train Loss: 1.6300 Acc: 0.4343 val Loss: 2.0996 Acc: 0.2727
Epoch 70/99 train Loss: 1.6670 Acc: 0.4330 val Loss: 2.0359 Acc: 0.3317
Epoch 71/99 train Loss: 1.5912 Acc: 0.4367 val Loss: 2.0555 Acc: 0.3096
Epoch 72/99 train Loss: 1.5804 Acc: 0.4441 val Loss: 1.9912 Acc: 0.3464
Epoch 73/99 train Loss: 1.5858 Acc: 0.4275 val Loss: 1.8958 Acc: 0.3366
Epoch 74/99 train Loss: 1.5228 Acc: 0.4748 val Loss: 2.0023 Acc: 0.3440

Epoch 75/99 train Loss: 1.6046 Acc: 0.4398 val Loss: 2.0372 Acc: 0.3366
Epoch 76/99 train Loss: 1.5527 Acc: 0.4441 val Loss: 1.9117 Acc: 0.3686
Epoch 77/99 train Loss: 1.5403 Acc: 0.4687 val Loss: 2.0097 Acc: 0.3268
Epoch 78/99 train Loss: 1.4848 Acc: 0.4699 val Loss: 1.9713 Acc: 0.3268
Epoch 79/99 train Loss: 1.5193 Acc: 0.4631 val Loss: 1.9608 Acc: 0.3514
Epoch 80/99 train Loss: 1.4705 Acc: 0.4742 val Loss: 2.0629 Acc: 0.3145
Epoch 81/99 train Loss: 1.4878 Acc: 0.4889 val Loss: 2.0264 Acc: 0.3317
Epoch 82/99 train Loss: 1.4406 Acc: 0.4988 val Loss: 2.0041 Acc: 0.3661
Epoch 83/99 train Loss: 1.4784 Acc: 0.4736 val Loss: 2.0696 Acc: 0.3317
Epoch 84/99 train Loss: 1.4340 Acc: 0.5000 val Loss: 2.1148 Acc: 0.3587
Epoch 85/99 train Loss: 1.4418 Acc: 0.4902 val Loss: 2.0229 Acc: 0.3391
Epoch 86/99 train Loss: 1.4381 Acc: 0.5117 val Loss: 2.0314 Acc: 0.3489
Epoch 87/99 train Loss: 1.4246 Acc: 0.4963 val Loss: 2.0209 Acc: 0.3243
Epoch 88/99 train Loss: 1.4366 Acc: 0.5031 val Loss: 1.9970 Acc: 0.3489
Epoch 89/99 train Loss: 1.3886 Acc: 0.5061 val Loss: 2.0252 Acc: 0.3514
Epoch 90/99 train Loss: 1.3809 Acc: 0.5190 val Loss: 2.0219 Acc: 0.3661
Epoch 91/99 train Loss: 1.3497 Acc: 0.5055 val Loss: 2.0143 Acc: 0.3489
Epoch 92/99 train Loss: 1.3821 Acc: 0.5197 val Loss: 2.1149 Acc: 0.3661
Epoch 93/99 train Loss: 1.3535 Acc: 0.5356 val Loss: 2.1138 Acc: 0.3489
Epoch 94/99 train Loss: 1.3092 Acc: 0.5301 val Loss: 2.0794 Acc: 0.3612
Training complete in 64m 12s
Best val Acc: 0.373464
Fold 4 test Loss: 1.9929 Acc: 0.3366

Epoch 0/99 train Loss: 2.5200 Acc: 0.1235 val Loss: 2.3802 Acc: 0.1671
Epoch 1/99 train Loss: 2.3199 Acc: 0.1695 val Loss: 2.2270 Acc: 0.1892
Epoch 2/99 train Loss: 2.2408 Acc: 0.2015 val Loss: 2.2546 Acc: 0.1966
Epoch 3/99 train Loss: 2.1815 Acc: 0.2377 val Loss: 2.2222 Acc: 0.2088
Epoch 4/99 train Loss: 2.1590 Acc: 0.2279 val Loss: 2.1669 Acc: 0.2113
Epoch 5/99 train Loss: 2.1236 Acc: 0.2604 val Loss: 2.1589 Acc: 0.2285
Epoch 6/99 train Loss: 2.1143 Acc: 0.2457 val Loss: 2.1451 Acc: 0.2482
Epoch 7/99 train Loss: 2.1116 Acc: 0.2684 val Loss: 2.2079 Acc: 0.2334
Epoch 8/99 train Loss: 2.0813 Acc: 0.2899 val Loss: 2.1284 Acc: 0.2482
Epoch 9/99 train Loss: 2.0747 Acc: 0.2795 val Loss: 2.1174 Acc: 0.2826
Epoch 10/99 train Loss: 2.0462 Acc: 0.2635 val Loss: 2.0817 Acc: 0.2801
Epoch 11/99 train Loss: 1.9969 Acc: 0.2955 val Loss: 2.1151 Acc: 0.2629
Epoch 12/99 train Loss: 2.0020 Acc: 0.2844 val Loss: 2.0630 Acc: 0.2826
Epoch 13/99 train Loss: 1.9892 Acc: 0.2942 val Loss: 2.0328 Acc: 0.2678

Epoch 14/99 train Loss: 1.9620 Acc: 0.3237 val Loss: 2.0579 Acc: 0.2826
Epoch 15/99 train Loss: 1.9666 Acc: 0.3262 val Loss: 2.0686 Acc: 0.2924
Epoch 16/99 train Loss: 1.9575 Acc: 0.3262 val Loss: 2.0316 Acc: 0.2998
Epoch 17/99 train Loss: 1.9233 Acc: 0.3335 val Loss: 2.0490 Acc: 0.2973
Epoch 18/99 train Loss: 1.9448 Acc: 0.3280 val Loss: 1.9978 Acc: 0.3243
Epoch 19/99 train Loss: 1.9645 Acc: 0.3145 val Loss: 1.9808 Acc: 0.3219
Epoch 20/99 train Loss: 1.9347 Acc: 0.3305 val Loss: 2.0829 Acc: 0.2899
Epoch 21/99 train Loss: 1.9043 Acc: 0.3323 val Loss: 2.0469 Acc: 0.3096
Epoch 22/99 train Loss: 1.9072 Acc: 0.3335 val Loss: 2.0337 Acc: 0.2899
Epoch 23/99 train Loss: 1.9120 Acc: 0.3299 val Loss: 1.9949 Acc: 0.3170
Epoch 24/99 train Loss: 1.9123 Acc: 0.3372 val Loss: 2.0050 Acc: 0.2948
Epoch 25/99 train Loss: 1.8901 Acc: 0.3520 val Loss: 1.9914 Acc: 0.3120
Epoch 26/99 train Loss: 1.8620 Acc: 0.3464 val Loss: 1.9527 Acc: 0.3366
Epoch 27/99 train Loss: 1.8629 Acc: 0.3397 val Loss: 1.9879 Acc: 0.3120
Epoch 28/99 train Loss: 1.8737 Acc: 0.3569 val Loss: 1.9949 Acc: 0.3145
Epoch 29/99 train Loss: 1.8283 Acc: 0.3581 val Loss: 1.9653 Acc: 0.3071
Epoch 30/99 train Loss: 1.8431 Acc: 0.3636 val Loss: 2.0243 Acc: 0.2850
Epoch 31/99 train Loss: 1.8203 Acc: 0.3569 val Loss: 1.9591 Acc: 0.3587
Epoch 32/99 train Loss: 1.8054 Acc: 0.3753 val Loss: 1.9666 Acc: 0.3219
Epoch 33/99 train Loss: 1.8204 Acc: 0.3679 val Loss: 1.9336 Acc: 0.3268
Epoch 34/99 train Loss: 1.7895 Acc: 0.3802 val Loss: 1.9486 Acc: 0.3489
Epoch 35/99 train Loss: 1.7856 Acc: 0.3735 val Loss: 1.9208 Acc: 0.3415
Epoch 36/99 train Loss: 1.7918 Acc: 0.3741 val Loss: 1.9369 Acc: 0.3366
Epoch 37/99 train Loss: 1.8009 Acc: 0.3882 val Loss: 1.9100 Acc: 0.3440
Epoch 38/99 train Loss: 1.8078 Acc: 0.3710 val Loss: 1.9465 Acc: 0.3292
Epoch 39/99 train Loss: 1.7465 Acc: 0.3814 val Loss: 1.9236 Acc: 0.3612
Epoch 40/99 train Loss: 1.7636 Acc: 0.3894 val Loss: 1.8965 Acc: 0.3317
Epoch 41/99 train Loss: 1.7712 Acc: 0.3710 val Loss: 1.9365 Acc: 0.3243
Epoch 42/99 train Loss: 1.7565 Acc: 0.3814 val Loss: 1.9737 Acc: 0.3268
Epoch 43/99 train Loss: 1.7600 Acc: 0.3778 val Loss: 1.9919 Acc: 0.3489
Epoch 44/99 train Loss: 1.7243 Acc: 0.3993 val Loss: 1.9022 Acc: 0.3366
Epoch 45/99 train Loss: 1.7216 Acc: 0.3943 val Loss: 1.8542 Acc: 0.3514
Epoch 46/99 train Loss: 1.6567 Acc: 0.4140 val Loss: 1.9140 Acc: 0.3538
Epoch 47/99 train Loss: 1.6842 Acc: 0.4029 val Loss: 1.9147 Acc: 0.3489
Epoch 48/99 train Loss: 1.6787 Acc: 0.4048 val Loss: 1.8961 Acc: 0.3391
Epoch 49/99 train Loss: 1.6877 Acc: 0.4072 val Loss: 1.8998 Acc: 0.3686
Epoch 50/99 train Loss: 1.6486 Acc: 0.4244 val Loss: 1.9075 Acc: 0.3735
Epoch 51/99 train Loss: 1.6253 Acc: 0.4195 val Loss: 1.9230 Acc: 0.3391

Epoch 52/99 train Loss: 1.6420 Acc: 0.4208 val Loss: 1.8657 Acc: 0.3587
Epoch 53/99 train Loss: 1.6102 Acc: 0.4355 val Loss: 1.9311 Acc: 0.3366
Epoch 54/99 train Loss: 1.6281 Acc: 0.4312 val Loss: 1.8726 Acc: 0.3415
Epoch 55/99 train Loss: 1.6190 Acc: 0.4232 val Loss: 1.9937 Acc: 0.3587
Epoch 56/99 train Loss: 1.5770 Acc: 0.4564 val Loss: 1.9087 Acc: 0.3833
Epoch 57/99 train Loss: 1.5878 Acc: 0.4472 val Loss: 1.8661 Acc: 0.3784
Epoch 58/99 train Loss: 1.6166 Acc: 0.4392 val Loss: 1.9243 Acc: 0.3612
Epoch 59/99 train Loss: 1.6034 Acc: 0.4318 val Loss: 1.8996 Acc: 0.3784
Epoch 60/99 train Loss: 1.5707 Acc: 0.4429 val Loss: 1.9235 Acc: 0.3538
Epoch 61/99 train Loss: 1.6045 Acc: 0.4349 val Loss: 1.9138 Acc: 0.3170
Epoch 62/99 train Loss: 1.5951 Acc: 0.4429 val Loss: 1.8804 Acc: 0.3440
Epoch 63/99 train Loss: 1.5878 Acc: 0.4392 val Loss: 2.0646 Acc: 0.3538
Epoch 64/99 train Loss: 1.5885 Acc: 0.4330 val Loss: 1.9379 Acc: 0.3391
Epoch 65/99 train Loss: 1.5584 Acc: 0.4552 val Loss: 1.9475 Acc: 0.3342
Epoch 66/99 train Loss: 1.5567 Acc: 0.4435 val Loss: 1.9306 Acc: 0.3292

Training complete in 45m 18s

Best val Acc: 0.383292

Fold 5 test Loss: 1.8174 Acc: 0.3504

average accuracy rate:0.332+/-0.012