Microsoft Windows [版本 10.0.18362.535]

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E:\Code\python\multi-label\Multiple-instance-learning-master\CNN\_RNN>python train.py

Namespace(batch\_size=80, caption\_path='data/annotations/img\_tag.txt', crop\_size=224, embed\_size=512, hidden\_size=1024, image\_dir='data/resized2007', learning\_rate=0.01, log\_step=10, model\_path='models/', num\_epochs=51, num\_layers=1, num\_workers=0, save\_step=50, vocab\_path='data/zh\_vocab\_2007.pkl')

load vocabulary ...

build data loader ...

build the models ...

Epoch [1/51], Step [0/112], Loss: 0.4036, Perplexity: 1.4972

Epoch [1/51], Step [10/112], Loss: 1.0433, Perplexity: 2.8387

Epoch [1/51], Step [20/112], Loss: 0.8238, Perplexity: 2.2791

forrtl: error (200): program aborting due to control-C event

Image PC Routine Line Source

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KERNELBASE.dll 00007FFCBF435FD3 Unknown Unknown Unknown

KERNEL32.DLL 00007FFCBFAB7BD4 Unknown Unknown Unknown

ntdll.dll 00007FFCC192CED1 Unknown Unknown Unknown

E:\Code\python\multi-label\Multiple-instance-learning-master\CNN\_RNN>python train.py

Namespace(batch\_size=80, caption\_path='data/annotations/img\_tag.txt', crop\_size=224, embed\_size=512, hidden\_size=1024, image\_dir='data/resized2007', learning\_rate=0.001, log\_step=10, model\_path='models/', num\_epochs=51, num\_layers=1, num\_workers=0, save\_step=50, vocab\_path='data/zh\_vocab\_2007.pkl')

load vocabulary ...

build data loader ...

build the models ...

Epoch [1/51], Step [0/112], Loss: 0.4391, Perplexity: 1.5512

Epoch [1/51], Step [10/112], Loss: 0.3878, Perplexity: 1.4737

Epoch [1/51], Step [20/112], Loss: 0.4514, Perplexity: 1.5705

Epoch [1/51], Step [30/112], Loss: 0.4117, Perplexity: 1.5094

Epoch [1/51], Step [40/112], Loss: 0.3330, Perplexity: 1.3951

Epoch [1/51], Step [50/112], Loss: 0.3931, Perplexity: 1.4815

Epoch [1/51], Step [60/112], Loss: 0.3054, Perplexity: 1.3571

Epoch [1/51], Step [70/112], Loss: 0.5024, Perplexity: 1.6528

Epoch [1/51], Step [80/112], Loss: 0.3698, Perplexity: 1.4474

Epoch [1/51], Step [90/112], Loss: 0.3577, Perplexity: 1.4300

Epoch [1/51], Step [100/112], Loss: 0.3733, Perplexity: 1.4526

Epoch [1/51], Step [110/112], Loss: 0.3498, Perplexity: 1.4188

epoch average loss: 0.3863

Epoch [2/51], Step [0/112], Loss: 0.4029, Perplexity: 1.4961

Epoch [2/51], Step [10/112], Loss: 0.3628, Perplexity: 1.4373

Epoch [2/51], Step [20/112], Loss: 0.3808, Perplexity: 1.4635

Epoch [2/51], Step [30/112], Loss: 0.3769, Perplexity: 1.4578

Epoch [2/51], Step [40/112], Loss: 0.3973, Perplexity: 1.4879

Epoch [2/51], Step [50/112], Loss: 0.4060, Perplexity: 1.5008

Epoch [2/51], Step [60/112], Loss: 0.3834, Perplexity: 1.4672

Epoch [2/51], Step [70/112], Loss: 0.3664, Perplexity: 1.4425

Epoch [2/51], Step [80/112], Loss: 0.3763, Perplexity: 1.4569

Epoch [2/51], Step [90/112], Loss: 0.3994, Perplexity: 1.4909

Epoch [2/51], Step [100/112], Loss: 0.3314, Perplexity: 1.3929

Epoch [2/51], Step [110/112], Loss: 0.2983, Perplexity: 1.3476

epoch average loss: 0.3740

Epoch [3/51], Step [0/112], Loss: 0.3928, Perplexity: 1.4812

Epoch [3/51], Step [10/112], Loss: 0.3280, Perplexity: 1.3882

Epoch [3/51], Step [20/112], Loss: 0.4217, Perplexity: 1.5246

Epoch [3/51], Step [30/112], Loss: 0.3332, Perplexity: 1.3954

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Epoch [3/51], Step [50/112], Loss: 0.3554, Perplexity: 1.4268

Epoch [3/51], Step [60/112], Loss: 0.3806, Perplexity: 1.4632

Epoch [3/51], Step [70/112], Loss: 0.4091, Perplexity: 1.5055

Epoch [3/51], Step [80/112], Loss: 0.3692, Perplexity: 1.4466

Epoch [3/51], Step [90/112], Loss: 0.3867, Perplexity: 1.4721

Epoch [3/51], Step [100/112], Loss: 0.3647, Perplexity: 1.4401

Epoch [3/51], Step [110/112], Loss: 0.3111, Perplexity: 1.3649

epoch average loss: 0.3705

Epoch [4/51], Step [0/112], Loss: 0.3466, Perplexity: 1.4143

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Epoch [4/51], Step [20/112], Loss: 0.3829, Perplexity: 1.4665

Epoch [4/51], Step [30/112], Loss: 0.3359, Perplexity: 1.3992

Epoch [4/51], Step [40/112], Loss: 0.4847, Perplexity: 1.6237

Epoch [4/51], Step [50/112], Loss: 0.4283, Perplexity: 1.5346

Epoch [4/51], Step [60/112], Loss: 0.3458, Perplexity: 1.4131

Epoch [4/51], Step [70/112], Loss: 0.3603, Perplexity: 1.4338

Epoch [4/51], Step [80/112], Loss: 0.3400, Perplexity: 1.4049

Epoch [4/51], Step [90/112], Loss: 0.4011, Perplexity: 1.4934

Epoch [4/51], Step [100/112], Loss: 0.3137, Perplexity: 1.3685

Epoch [4/51], Step [110/112], Loss: 0.2967, Perplexity: 1.3454

epoch average loss: 0.3620

Epoch [5/51], Step [0/112], Loss: 0.3136, Perplexity: 1.3684

Epoch [5/51], Step [10/112], Loss: 0.3411, Perplexity: 1.4065

Epoch [5/51], Step [20/112], Loss: 0.3694, Perplexity: 1.4469

Epoch [5/51], Step [30/112], Loss: 0.3639, Perplexity: 1.4390

Epoch [5/51], Step [40/112], Loss: 0.3217, Perplexity: 1.3795

Epoch [5/51], Step [50/112], Loss: 0.2947, Perplexity: 1.3427

Epoch [5/51], Step [60/112], Loss: 0.3587, Perplexity: 1.4315

Epoch [5/51], Step [70/112], Loss: 0.4260, Perplexity: 1.5311

Epoch [5/51], Step [80/112], Loss: 0.3009, Perplexity: 1.3510

Epoch [5/51], Step [90/112], Loss: 0.3666, Perplexity: 1.4429

Epoch [5/51], Step [100/112], Loss: 0.3102, Perplexity: 1.3636

Epoch [5/51], Step [110/112], Loss: 0.3676, Perplexity: 1.4442

epoch average loss: 0.3591

Epoch [6/51], Step [0/112], Loss: 0.3740, Perplexity: 1.4536

Epoch [6/51], Step [10/112], Loss: 0.3465, Perplexity: 1.4141

Epoch [6/51], Step [20/112], Loss: 0.3554, Perplexity: 1.4267

Epoch [6/51], Step [30/112], Loss: 0.4544, Perplexity: 1.5752

Epoch [6/51], Step [40/112], Loss: 0.4462, Perplexity: 1.5623

Epoch [6/51], Step [50/112], Loss: 0.3851, Perplexity: 1.4698

Epoch [6/51], Step [60/112], Loss: 0.3345, Perplexity: 1.3973

Epoch [6/51], Step [70/112], Loss: 0.3567, Perplexity: 1.4286

Epoch [6/51], Step [80/112], Loss: 0.3236, Perplexity: 1.3820

Epoch [6/51], Step [90/112], Loss: 0.3655, Perplexity: 1.4413

Epoch [6/51], Step [100/112], Loss: 0.3123, Perplexity: 1.3666

Epoch [6/51], Step [110/112], Loss: 0.3290, Perplexity: 1.3896

epoch average loss: 0.3562

Epoch [7/51], Step [0/112], Loss: 0.4197, Perplexity: 1.5216

Epoch [7/51], Step [10/112], Loss: 0.3029, Perplexity: 1.3538

Epoch [7/51], Step [20/112], Loss: 0.3139, Perplexity: 1.3688

Epoch [7/51], Step [30/112], Loss: 0.4084, Perplexity: 1.5045

Epoch [7/51], Step [40/112], Loss: 0.3524, Perplexity: 1.4225

Epoch [7/51], Step [50/112], Loss: 0.3445, Perplexity: 1.4114

Epoch [7/51], Step [60/112], Loss: 0.4048, Perplexity: 1.4990

Epoch [7/51], Step [70/112], Loss: 0.3177, Perplexity: 1.3740

Epoch [7/51], Step [80/112], Loss: 0.3900, Perplexity: 1.4771

Epoch [7/51], Step [90/112], Loss: 0.3433, Perplexity: 1.4095

Epoch [7/51], Step [100/112], Loss: 0.4094, Perplexity: 1.5059

Epoch [7/51], Step [110/112], Loss: 0.3184, Perplexity: 1.3749

epoch average loss: 0.3536

Epoch [8/51], Step [0/112], Loss: 0.3936, Perplexity: 1.4824

Epoch [8/51], Step [10/112], Loss: 0.3352, Perplexity: 1.3983

Epoch [8/51], Step [20/112], Loss: 0.3704, Perplexity: 1.4484

Epoch [8/51], Step [30/112], Loss: 0.4078, Perplexity: 1.5036

Epoch [8/51], Step [40/112], Loss: 0.3363, Perplexity: 1.3998

Epoch [8/51], Step [50/112], Loss: 0.2555, Perplexity: 1.2912

Epoch [8/51], Step [60/112], Loss: 0.3721, Perplexity: 1.4508

Epoch [8/51], Step [70/112], Loss: 0.3993, Perplexity: 1.4908

Epoch [8/51], Step [80/112], Loss: 0.2425, Perplexity: 1.2744

Epoch [8/51], Step [90/112], Loss: 0.3654, Perplexity: 1.4411

Epoch [8/51], Step [100/112], Loss: 0.3802, Perplexity: 1.4625

Epoch [8/51], Step [110/112], Loss: 0.3075, Perplexity: 1.3600

epoch average loss: 0.3459

Epoch [9/51], Step [0/112], Loss: 0.3748, Perplexity: 1.4547

Epoch [9/51], Step [10/112], Loss: 0.3414, Perplexity: 1.4069

Epoch [9/51], Step [20/112], Loss: 0.4437, Perplexity: 1.5585

Epoch [9/51], Step [30/112], Loss: 0.3415, Perplexity: 1.4071

Epoch [9/51], Step [40/112], Loss: 0.3500, Perplexity: 1.4191

Epoch [9/51], Step [50/112], Loss: 0.3144, Perplexity: 1.3695

Epoch [9/51], Step [60/112], Loss: 0.4437, Perplexity: 1.5585

Epoch [9/51], Step [70/112], Loss: 0.2869, Perplexity: 1.3323

Epoch [9/51], Step [80/112], Loss: 0.3241, Perplexity: 1.3828

Epoch [9/51], Step [90/112], Loss: 0.3103, Perplexity: 1.3639

Epoch [9/51], Step [100/112], Loss: 0.3021, Perplexity: 1.3527

Epoch [9/51], Step [110/112], Loss: 0.4252, Perplexity: 1.5299

epoch average loss: 0.3429

Epoch [10/51], Step [0/112], Loss: 0.2922, Perplexity: 1.3394

Epoch [10/51], Step [10/112], Loss: 0.3552, Perplexity: 1.4265

Epoch [10/51], Step [20/112], Loss: 0.3759, Perplexity: 1.4563

Epoch [10/51], Step [30/112], Loss: 0.2873, Perplexity: 1.3328

Epoch [10/51], Step [40/112], Loss: 0.2522, Perplexity: 1.2868

Epoch [10/51], Step [50/112], Loss: 0.5290, Perplexity: 1.6973

Epoch [10/51], Step [60/112], Loss: 0.3454, Perplexity: 1.4126

Epoch [10/51], Step [70/112], Loss: 0.3165, Perplexity: 1.3724

Epoch [10/51], Step [80/112], Loss: 0.2809, Perplexity: 1.3243

Epoch [10/51], Step [90/112], Loss: 0.3354, Perplexity: 1.3985

Epoch [10/51], Step [100/112], Loss: 0.2635, Perplexity: 1.3015

Epoch [10/51], Step [110/112], Loss: 0.3225, Perplexity: 1.3806

epoch average loss: 0.3428

Epoch [11/51], Step [0/112], Loss: 0.3484, Perplexity: 1.4169

Epoch [11/51], Step [10/112], Loss: 0.3151, Perplexity: 1.3705

Epoch [11/51], Step [20/112], Loss: 0.3906, Perplexity: 1.4779

Epoch [11/51], Step [30/112], Loss: 0.3455, Perplexity: 1.4126

Epoch [11/51], Step [40/112], Loss: 0.3446, Perplexity: 1.4115

Epoch [11/51], Step [50/112], Loss: 0.3810, Perplexity: 1.4638

Epoch [11/51], Step [60/112], Loss: 0.3770, Perplexity: 1.4579

Epoch [11/51], Step [70/112], Loss: 0.3298, Perplexity: 1.3907

Epoch [11/51], Step [80/112], Loss: 0.3223, Perplexity: 1.3803

Epoch [11/51], Step [90/112], Loss: 0.2875, Perplexity: 1.3331

Epoch [11/51], Step [100/112], Loss: 0.3914, Perplexity: 1.4790

Epoch [11/51], Step [110/112], Loss: 0.3169, Perplexity: 1.3728

epoch average loss: 0.3352

Epoch [12/51], Step [0/112], Loss: 0.3357, Perplexity: 1.3989

Epoch [12/51], Step [10/112], Loss: 0.2450, Perplexity: 1.2776

Epoch [12/51], Step [20/112], Loss: 0.2832, Perplexity: 1.3274

Epoch [12/51], Step [30/112], Loss: 0.2872, Perplexity: 1.3327

Epoch [12/51], Step [40/112], Loss: 0.2511, Perplexity: 1.2855

Epoch [12/51], Step [50/112], Loss: 0.2224, Perplexity: 1.2490

Epoch [12/51], Step [60/112], Loss: 0.2081, Perplexity: 1.2313

Epoch [12/51], Step [70/112], Loss: 0.3113, Perplexity: 1.3652

Epoch [12/51], Step [80/112], Loss: 0.3492, Perplexity: 1.4179

Epoch [12/51], Step [90/112], Loss: 0.2351, Perplexity: 1.2651

Epoch [12/51], Step [100/112], Loss: 0.2398, Perplexity: 1.2710

Epoch [12/51], Step [110/112], Loss: 0.2345, Perplexity: 1.2643

epoch average loss: 0.2931

Epoch [13/51], Step [0/112], Loss: 0.2737, Perplexity: 1.3148

Epoch [13/51], Step [10/112], Loss: 0.2428, Perplexity: 1.2748

Epoch [13/51], Step [20/112], Loss: 0.2515, Perplexity: 1.2860

Epoch [13/51], Step [30/112], Loss: 0.2342, Perplexity: 1.2639

Epoch [13/51], Step [40/112], Loss: 0.2055, Perplexity: 1.2281

Epoch [13/51], Step [50/112], Loss: 0.2635, Perplexity: 1.3015

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Epoch [13/51], Step [80/112], Loss: 0.2986, Perplexity: 1.3480

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Epoch [13/51], Step [100/112], Loss: 0.3005, Perplexity: 1.3505

Epoch [13/51], Step [110/112], Loss: 0.2304, Perplexity: 1.2591

epoch average loss: 0.2795

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Epoch [14/51], Step [60/112], Loss: 0.3144, Perplexity: 1.3694

Epoch [14/51], Step [70/112], Loss: 0.2576, Perplexity: 1.2939

Epoch [14/51], Step [80/112], Loss: 0.2680, Perplexity: 1.3073

Epoch [14/51], Step [90/112], Loss: 0.2957, Perplexity: 1.3440

Epoch [14/51], Step [100/112], Loss: 0.2688, Perplexity: 1.3084

Epoch [14/51], Step [110/112], Loss: 0.2771, Perplexity: 1.3194

epoch average loss: 0.2740

Epoch [15/51], Step [0/112], Loss: 0.2803, Perplexity: 1.3235

Epoch [15/51], Step [10/112], Loss: 0.1925, Perplexity: 1.2122

Epoch [15/51], Step [20/112], Loss: 0.2746, Perplexity: 1.3161

Epoch [15/51], Step [30/112], Loss: 0.2160, Perplexity: 1.2411

Epoch [15/51], Step [40/112], Loss: 0.3053, Perplexity: 1.3570

Epoch [15/51], Step [50/112], Loss: 0.2983, Perplexity: 1.3476

Epoch [15/51], Step [60/112], Loss: 0.2238, Perplexity: 1.2508

Epoch [15/51], Step [70/112], Loss: 0.2890, Perplexity: 1.3351

Epoch [15/51], Step [80/112], Loss: 0.2152, Perplexity: 1.2402

Epoch [15/51], Step [90/112], Loss: 0.3177, Perplexity: 1.3740

Epoch [15/51], Step [100/112], Loss: 0.2046, Perplexity: 1.2271

Epoch [15/51], Step [110/112], Loss: 0.3076, Perplexity: 1.3602

epoch average loss: 0.2692

Epoch [16/51], Step [0/112], Loss: 0.2920, Perplexity: 1.3391

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Epoch [16/51], Step [20/112], Loss: 0.3129, Perplexity: 1.3674

Epoch [16/51], Step [30/112], Loss: 0.2217, Perplexity: 1.2482

Epoch [16/51], Step [40/112], Loss: 0.3214, Perplexity: 1.3791

Epoch [16/51], Step [50/112], Loss: 0.2177, Perplexity: 1.2432

Epoch [16/51], Step [60/112], Loss: 0.2879, Perplexity: 1.3336

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Epoch [16/51], Step [80/112], Loss: 0.2885, Perplexity: 1.3344

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Epoch [16/51], Step [100/112], Loss: 0.1981, Perplexity: 1.2191

Epoch [16/51], Step [110/112], Loss: 0.2789, Perplexity: 1.3216

epoch average loss: 0.2638

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Epoch [17/51], Step [30/112], Loss: 0.2571, Perplexity: 1.2932

Epoch [17/51], Step [40/112], Loss: 0.3314, Perplexity: 1.3929

Epoch [17/51], Step [50/112], Loss: 0.1804, Perplexity: 1.1977

Epoch [17/51], Step [60/112], Loss: 0.1841, Perplexity: 1.2021

Epoch [17/51], Step [70/112], Loss: 0.2506, Perplexity: 1.2848

Epoch [17/51], Step [80/112], Loss: 0.2361, Perplexity: 1.2663

Epoch [17/51], Step [90/112], Loss: 0.2631, Perplexity: 1.3010

Epoch [17/51], Step [100/112], Loss: 0.2026, Perplexity: 1.2246

Epoch [17/51], Step [110/112], Loss: 0.3305, Perplexity: 1.3917

epoch average loss: 0.2632

Epoch [18/51], Step [0/112], Loss: 0.2850, Perplexity: 1.3298

Epoch [18/51], Step [10/112], Loss: 0.2341, Perplexity: 1.2637

Epoch [18/51], Step [20/112], Loss: 0.2422, Perplexity: 1.2741

Epoch [18/51], Step [30/112], Loss: 0.2137, Perplexity: 1.2382

Epoch [18/51], Step [40/112], Loss: 0.2851, Perplexity: 1.3299

Epoch [18/51], Step [50/112], Loss: 0.2373, Perplexity: 1.2678

Epoch [18/51], Step [60/112], Loss: 0.1961, Perplexity: 1.2167

Epoch [18/51], Step [70/112], Loss: 0.2518, Perplexity: 1.2863

Epoch [18/51], Step [80/112], Loss: 0.2365, Perplexity: 1.2668

Epoch [18/51], Step [90/112], Loss: 0.2271, Perplexity: 1.2550

Epoch [18/51], Step [100/112], Loss: 0.2038, Perplexity: 1.2261

Epoch [18/51], Step [110/112], Loss: 0.2551, Perplexity: 1.2906

epoch average loss: 0.2575

Epoch [19/51], Step [0/112], Loss: 0.2250, Perplexity: 1.2524

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Epoch [19/51], Step [20/112], Loss: 0.2664, Perplexity: 1.3053

Epoch [19/51], Step [30/112], Loss: 0.3078, Perplexity: 1.3604

Epoch [19/51], Step [40/112], Loss: 0.2406, Perplexity: 1.2721

Epoch [19/51], Step [50/112], Loss: 0.2299, Perplexity: 1.2585

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Epoch [19/51], Step [70/112], Loss: 0.2932, Perplexity: 1.3407

Epoch [19/51], Step [80/112], Loss: 0.2275, Perplexity: 1.2554

Epoch [19/51], Step [90/112], Loss: 0.2552, Perplexity: 1.2908

Epoch [19/51], Step [100/112], Loss: 0.2747, Perplexity: 1.3161

Epoch [19/51], Step [110/112], Loss: 0.2709, Perplexity: 1.3112

epoch average loss: 0.2538

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Epoch [20/51], Step [20/112], Loss: 0.2105, Perplexity: 1.2343

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Epoch [20/51], Step [80/112], Loss: 0.2500, Perplexity: 1.2841

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Epoch [20/51], Step [110/112], Loss: 0.2961, Perplexity: 1.3446

epoch average loss: 0.2512

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Epoch [21/51], Step [20/112], Loss: 0.2462, Perplexity: 1.2791

Epoch [21/51], Step [30/112], Loss: 0.2657, Perplexity: 1.3043

Epoch [21/51], Step [40/112], Loss: 0.3469, Perplexity: 1.4147

Epoch [21/51], Step [50/112], Loss: 0.2062, Perplexity: 1.2291

Epoch [21/51], Step [60/112], Loss: 0.2274, Perplexity: 1.2554

Epoch [21/51], Step [70/112], Loss: 0.2698, Perplexity: 1.3097

Epoch [21/51], Step [80/112], Loss: 0.3191, Perplexity: 1.3759

Epoch [21/51], Step [90/112], Loss: 0.2199, Perplexity: 1.2459

Epoch [21/51], Step [100/112], Loss: 0.2996, Perplexity: 1.3493

Epoch [21/51], Step [110/112], Loss: 0.2620, Perplexity: 1.2995

epoch average loss: 0.2509

Epoch [22/51], Step [0/112], Loss: 0.2168, Perplexity: 1.2421

Epoch [22/51], Step [10/112], Loss: 0.2746, Perplexity: 1.3160

Epoch [22/51], Step [20/112], Loss: 0.2494, Perplexity: 1.2833

Epoch [22/51], Step [30/112], Loss: 0.2049, Perplexity: 1.2274

Epoch [22/51], Step [40/112], Loss: 0.2443, Perplexity: 1.2767

Epoch [22/51], Step [50/112], Loss: 0.2047, Perplexity: 1.2272

Epoch [22/51], Step [60/112], Loss: 0.2327, Perplexity: 1.2619

Epoch [22/51], Step [70/112], Loss: 0.1863, Perplexity: 1.2048

Epoch [22/51], Step [80/112], Loss: 0.2114, Perplexity: 1.2354

Epoch [22/51], Step [90/112], Loss: 0.2075, Perplexity: 1.2306

Epoch [22/51], Step [100/112], Loss: 0.2456, Perplexity: 1.2784

Epoch [22/51], Step [110/112], Loss: 0.2433, Perplexity: 1.2755

epoch average loss: 0.2439

Epoch [23/51], Step [0/112], Loss: 0.2140, Perplexity: 1.2386

Epoch [23/51], Step [10/112], Loss: 0.2340, Perplexity: 1.2637

Epoch [23/51], Step [20/112], Loss: 0.2012, Perplexity: 1.2228

Epoch [23/51], Step [30/112], Loss: 0.2818, Perplexity: 1.3255

Epoch [23/51], Step [40/112], Loss: 0.2460, Perplexity: 1.2789

Epoch [23/51], Step [50/112], Loss: 0.2720, Perplexity: 1.3126

Epoch [23/51], Step [60/112], Loss: 0.2059, Perplexity: 1.2286

Epoch [23/51], Step [70/112], Loss: 0.2421, Perplexity: 1.2739

Epoch [23/51], Step [80/112], Loss: 0.2933, Perplexity: 1.3409

Epoch [23/51], Step [90/112], Loss: 0.2906, Perplexity: 1.3372

Epoch [23/51], Step [100/112], Loss: 0.2310, Perplexity: 1.2599

Epoch [23/51], Step [110/112], Loss: 0.2133, Perplexity: 1.2378

epoch average loss: 0.2432

Epoch [24/51], Step [0/112], Loss: 0.2638, Perplexity: 1.3019

Epoch [24/51], Step [10/112], Loss: 0.2238, Perplexity: 1.2509

Epoch [24/51], Step [20/112], Loss: 0.2560, Perplexity: 1.2918

Epoch [24/51], Step [30/112], Loss: 0.2570, Perplexity: 1.2931

Epoch [24/51], Step [40/112], Loss: 0.2165, Perplexity: 1.2417

Epoch [24/51], Step [50/112], Loss: 0.2111, Perplexity: 1.2350

Epoch [24/51], Step [60/112], Loss: 0.2312, Perplexity: 1.2602

Epoch [24/51], Step [70/112], Loss: 0.2556, Perplexity: 1.2913

Epoch [24/51], Step [80/112], Loss: 0.1764, Perplexity: 1.1929

Epoch [24/51], Step [90/112], Loss: 0.3098, Perplexity: 1.3631

Epoch [24/51], Step [100/112], Loss: 0.2387, Perplexity: 1.2696

Epoch [24/51], Step [110/112], Loss: 0.2336, Perplexity: 1.2632

epoch average loss: 0.2416

Epoch [25/51], Step [0/112], Loss: 0.2317, Perplexity: 1.2607

Epoch [25/51], Step [10/112], Loss: 0.2197, Perplexity: 1.2457

Epoch [25/51], Step [20/112], Loss: 0.1976, Perplexity: 1.2185

Epoch [25/51], Step [30/112], Loss: 0.2401, Perplexity: 1.2713

Epoch [25/51], Step [40/112], Loss: 0.2556, Perplexity: 1.2912

Epoch [25/51], Step [50/112], Loss: 0.2982, Perplexity: 1.3474

Epoch [25/51], Step [60/112], Loss: 0.2716, Perplexity: 1.3121

Epoch [25/51], Step [70/112], Loss: 0.2473, Perplexity: 1.2806

Epoch [25/51], Step [80/112], Loss: 0.2478, Perplexity: 1.2813

Epoch [25/51], Step [90/112], Loss: 0.2117, Perplexity: 1.2358

Epoch [25/51], Step [100/112], Loss: 0.2167, Perplexity: 1.2419

Epoch [25/51], Step [110/112], Loss: 0.2141, Perplexity: 1.2387

epoch average loss: 0.2426

Epoch [26/51], Step [0/112], Loss: 0.1735, Perplexity: 1.1895

Epoch [26/51], Step [10/112], Loss: 0.3078, Perplexity: 1.3605

Epoch [26/51], Step [20/112], Loss: 0.2776, Perplexity: 1.3200

Epoch [26/51], Step [30/112], Loss: 0.1698, Perplexity: 1.1850

Epoch [26/51], Step [40/112], Loss: 0.2724, Perplexity: 1.3131

Epoch [26/51], Step [50/112], Loss: 0.2447, Perplexity: 1.2772

Epoch [26/51], Step [60/112], Loss: 0.2526, Perplexity: 1.2873

Epoch [26/51], Step [70/112], Loss: 0.1771, Perplexity: 1.1937

Epoch [26/51], Step [80/112], Loss: 0.1728, Perplexity: 1.1886

Epoch [26/51], Step [90/112], Loss: 0.2058, Perplexity: 1.2285

Epoch [26/51], Step [100/112], Loss: 0.2022, Perplexity: 1.2241

Epoch [26/51], Step [110/112], Loss: 0.1951, Perplexity: 1.2155

epoch average loss: 0.2399

Epoch [27/51], Step [0/112], Loss: 0.2658, Perplexity: 1.3045

Epoch [27/51], Step [10/112], Loss: 0.2098, Perplexity: 1.2334

Epoch [27/51], Step [20/112], Loss: 0.2106, Perplexity: 1.2344

Epoch [27/51], Step [30/112], Loss: 0.2232, Perplexity: 1.2501

Epoch [27/51], Step [40/112], Loss: 0.3026, Perplexity: 1.3534

Epoch [27/51], Step [50/112], Loss: 0.2248, Perplexity: 1.2521

Epoch [27/51], Step [60/112], Loss: 0.1854, Perplexity: 1.2037

Epoch [27/51], Step [70/112], Loss: 0.2485, Perplexity: 1.2821

Epoch [27/51], Step [80/112], Loss: 0.1966, Perplexity: 1.2172

Epoch [27/51], Step [90/112], Loss: 0.3062, Perplexity: 1.3583

Epoch [27/51], Step [100/112], Loss: 0.2506, Perplexity: 1.2848

Epoch [27/51], Step [110/112], Loss: 0.2181, Perplexity: 1.2437

epoch average loss: 0.2394

Epoch [28/51], Step [0/112], Loss: 0.2627, Perplexity: 1.3004

Epoch [28/51], Step [10/112], Loss: 0.2617, Perplexity: 1.2991

Epoch [28/51], Step [20/112], Loss: 0.2701, Perplexity: 1.3101

Epoch [28/51], Step [30/112], Loss: 0.1893, Perplexity: 1.2084

Epoch [28/51], Step [40/112], Loss: 0.2508, Perplexity: 1.2850

Epoch [28/51], Step [50/112], Loss: 0.1657, Perplexity: 1.1802

Epoch [28/51], Step [60/112], Loss: 0.2044, Perplexity: 1.2268

Epoch [28/51], Step [70/112], Loss: 0.2095, Perplexity: 1.2331

Epoch [28/51], Step [80/112], Loss: 0.2220, Perplexity: 1.2486

Epoch [28/51], Step [90/112], Loss: 0.2825, Perplexity: 1.3265

forrtl: error (200): program aborting due to control-C event

Image PC Routine Line Source

libifcoremd.dll 00007FFC7D6394C4 Unknown Unknown Unknown

KERNELBASE.dll 00007FFCBF435FD3 Unknown Unknown Unknown

KERNEL32.DLL 00007FFCBFAB7BD4 Unknown Unknown Unknown

ntdll.dll 00007FFCC192CED1 Unknown Unknown Unknown

E:\Code\python\multi-label\Multiple-instance-learning-master\CNN\_RNN>

E:\Code\python\multi-label\Multiple-instance-learning-master\CNN\_RNN>

E:\Code\python\multi-label\Multiple-instance-learning-master\CNN\_RNN>python train.py

Namespace(batch\_size=80, caption\_path='data/annotations/img\_tag.txt', crop\_size=224, embed\_size=512, hidden\_size=1024, image\_dir='data/resized2007', learning\_rate=0.001, log\_step=10, model\_path='models/', num\_epochs=51, num\_layers=1, num\_workers=0, save\_step=50, vocab\_path='data/zh\_vocab\_2007.pkl')

load vocabulary ...

build data loader ...

build the models ...

Epoch [1/51], Step [0/112], Loss: 0.2340, Perplexity: 1.2636

Epoch [1/51], Step [10/112], Loss: 0.2871, Perplexity: 1.3326

Epoch [1/51], Step [20/112], Loss: 0.2420, Perplexity: 1.2738

Epoch [1/51], Step [30/112], Loss: 0.2882, Perplexity: 1.3340

Epoch [1/51], Step [40/112], Loss: 0.3193, Perplexity: 1.3761

Epoch [1/51], Step [50/112], Loss: 0.2605, Perplexity: 1.2976

Epoch [1/51], Step [60/112], Loss: 0.3326, Perplexity: 1.3946

Epoch [1/51], Step [70/112], Loss: 0.3469, Perplexity: 1.4146

Epoch [1/51], Step [80/112], Loss: 0.3035, Perplexity: 1.3545

Epoch [1/51], Step [90/112], Loss: 0.3820, Perplexity: 1.4652

Epoch [1/51], Step [100/112], Loss: 0.2702, Perplexity: 1.3102

Epoch [1/51], Step [110/112], Loss: 0.3751, Perplexity: 1.4551

epoch average loss: 0.3085

Epoch [2/51], Step [0/112], Loss: 0.3434, Perplexity: 1.4098

Epoch [2/51], Step [10/112], Loss: 0.3730, Perplexity: 1.4520

Epoch [2/51], Step [20/112], Loss: 0.2892, Perplexity: 1.3353

Epoch [2/51], Step [30/112], Loss: 0.3189, Perplexity: 1.3756

Epoch [2/51], Step [40/112], Loss: 0.3120, Perplexity: 1.3662

Epoch [2/51], Step [50/112], Loss: 0.3110, Perplexity: 1.3648

Epoch [2/51], Step [60/112], Loss: 0.3049, Perplexity: 1.3565

Epoch [2/51], Step [70/112], Loss: 0.2485, Perplexity: 1.2821

Epoch [2/51], Step [80/112], Loss: 0.3304, Perplexity: 1.3916

Epoch [2/51], Step [90/112], Loss: 0.3721, Perplexity: 1.4507

Epoch [2/51], Step [100/112], Loss: 0.3140, Perplexity: 1.3690

Epoch [2/51], Step [110/112], Loss: 0.2830, Perplexity: 1.3272

epoch average loss: 0.3118

Epoch [3/51], Step [0/112], Loss: 0.2676, Perplexity: 1.3069

Epoch [3/51], Step [10/112], Loss: 0.3083, Perplexity: 1.3611

Epoch [3/51], Step [20/112], Loss: 0.2718, Perplexity: 1.3123

Epoch [3/51], Step [30/112], Loss: 0.3148, Perplexity: 1.3700

Epoch [3/51], Step [40/112], Loss: 0.3050, Perplexity: 1.3567

Epoch [3/51], Step [50/112], Loss: 0.3166, Perplexity: 1.3724

Epoch [3/51], Step [60/112], Loss: 0.2918, Perplexity: 1.3388

Epoch [3/51], Step [70/112], Loss: 0.3472, Perplexity: 1.4151

Epoch [3/51], Step [80/112], Loss: 0.3559, Perplexity: 1.4274

Epoch [3/51], Step [90/112], Loss: 0.3027, Perplexity: 1.3535

Epoch [3/51], Step [100/112], Loss: 0.2849, Perplexity: 1.3296

forrtl: error (200): program aborting due to control-C event

Image PC Routine Line Source

libifcoremd.dll 00007FFC7D0D94C4 Unknown Unknown Unknown

KERNELBASE.dll 00007FFCBF435FD3 Unknown Unknown Unknown

KERNEL32.DLL 00007FFCBFAB7BD4 Unknown Unknown Unknown

ntdll.dll 00007FFCC192CED1 Unknown Unknown Unknown

E:\Code\python\multi-label\Multiple-instance-learning-master\CNN\_RNN>^Z^Z^Z^Z^Z^Z^Z^Z

E:\Code\python\multi-label\Multiple-instance-learning-master\CNN\_RNN>

E:\Code\python\multi-label\Multiple-instance-learning-master\CNN\_RNN>python train.py

Namespace(batch\_size=80, caption\_path='data/annotations/img\_tag.txt', crop\_size=224, embed\_size=512, hidden\_size=1024, image\_dir='data/resized2007', learning\_rate=0.0001, log\_step=10, model\_path='models/', num\_epochs=51, num\_layers=1, num\_workers=0, save\_step=50, vocab\_path='data/zh\_vocab\_2007.pkl')

load vocabulary ...

build data loader ...

build the models ...

Epoch [1/51], Step [0/112], Loss: 0.2180, Perplexity: 1.2436

Epoch [1/51], Step [10/112], Loss: 0.2504, Perplexity: 1.2845

Epoch [1/51], Step [20/112], Loss: 0.2083, Perplexity: 1.2316

Epoch [1/51], Step [30/112], Loss: 0.2440, Perplexity: 1.2763

Epoch [1/51], Step [40/112], Loss: 0.2095, Perplexity: 1.2331

Epoch [1/51], Step [50/112], Loss: 0.2882, Perplexity: 1.3340

Epoch [1/51], Step [60/112], Loss: 0.2810, Perplexity: 1.3244

Epoch [1/51], Step [70/112], Loss: 0.2558, Perplexity: 1.2915

Epoch [1/51], Step [80/112], Loss: 0.2311, Perplexity: 1.2600

Epoch [1/51], Step [90/112], Loss: 0.1777, Perplexity: 1.1945

Epoch [1/51], Step [100/112], Loss: 0.2411, Perplexity: 1.2727

Epoch [1/51], Step [110/112], Loss: 0.2793, Perplexity: 1.3222

epoch average loss: 0.2467

Epoch [2/51], Step [0/112], Loss: 0.2099, Perplexity: 1.2335

Epoch [2/51], Step [10/112], Loss: 0.2418, Perplexity: 1.2735

Epoch [2/51], Step [20/112], Loss: 0.2142, Perplexity: 1.2389

Epoch [2/51], Step [30/112], Loss: 0.2212, Perplexity: 1.2476

Epoch [2/51], Step [40/112], Loss: 0.2676, Perplexity: 1.3068

Epoch [2/51], Step [50/112], Loss: 0.2876, Perplexity: 1.3332

Epoch [2/51], Step [60/112], Loss: 0.2197, Perplexity: 1.2458

Epoch [2/51], Step [70/112], Loss: 0.1899, Perplexity: 1.2091

Epoch [2/51], Step [80/112], Loss: 0.2708, Perplexity: 1.3110

Epoch [2/51], Step [90/112], Loss: 0.2330, Perplexity: 1.2623

Epoch [2/51], Step [100/112], Loss: 0.2131, Perplexity: 1.2375

Epoch [2/51], Step [110/112], Loss: 0.2530, Perplexity: 1.2879

epoch average loss: 0.2406

Epoch [3/51], Step [0/112], Loss: 0.2562, Perplexity: 1.2920

Epoch [3/51], Step [10/112], Loss: 0.2421, Perplexity: 1.2740

Epoch [3/51], Step [20/112], Loss: 0.2095, Perplexity: 1.2331

Epoch [3/51], Step [30/112], Loss: 0.3306, Perplexity: 1.3918

Epoch [3/51], Step [40/112], Loss: 0.2359, Perplexity: 1.2660

Epoch [3/51], Step [50/112], Loss: 0.3024, Perplexity: 1.3531

Epoch [3/51], Step [60/112], Loss: 0.2408, Perplexity: 1.2723

Epoch [3/51], Step [70/112], Loss: 0.2495, Perplexity: 1.2833

Epoch [3/51], Step [80/112], Loss: 0.1820, Perplexity: 1.1997

Epoch [3/51], Step [90/112], Loss: 0.2279, Perplexity: 1.2559

Epoch [3/51], Step [100/112], Loss: 0.2725, Perplexity: 1.3132

Epoch [3/51], Step [110/112], Loss: 0.2491, Perplexity: 1.2829

epoch average loss: 0.2403

Epoch [4/51], Step [0/112], Loss: 0.2755, Perplexity: 1.3172

Epoch [4/51], Step [10/112], Loss: 0.2729, Perplexity: 1.3138

Epoch [4/51], Step [20/112], Loss: 0.2632, Perplexity: 1.3011

Epoch [4/51], Step [30/112], Loss: 0.2386, Perplexity: 1.2695

Epoch [4/51], Step [40/112], Loss: 0.2531, Perplexity: 1.2881

Epoch [4/51], Step [50/112], Loss: 0.2347, Perplexity: 1.2645

Epoch [4/51], Step [60/112], Loss: 0.2277, Perplexity: 1.2557

Epoch [4/51], Step [70/112], Loss: 0.1658, Perplexity: 1.1803

Epoch [4/51], Step [80/112], Loss: 0.3627, Perplexity: 1.4371

Epoch [4/51], Step [90/112], Loss: 0.2375, Perplexity: 1.2681

Epoch [4/51], Step [100/112], Loss: 0.2972, Perplexity: 1.3461

Epoch [4/51], Step [110/112], Loss: 0.1645, Perplexity: 1.1788

epoch average loss: 0.2409

Epoch [5/51], Step [0/112], Loss: 0.2378, Perplexity: 1.2685

Epoch [5/51], Step [10/112], Loss: 0.2381, Perplexity: 1.2689

Epoch [5/51], Step [20/112], Loss: 0.2655, Perplexity: 1.3041

Epoch [5/51], Step [30/112], Loss: 0.2503, Perplexity: 1.2844

Epoch [5/51], Step [40/112], Loss: 0.2388, Perplexity: 1.2697

Epoch [5/51], Step [50/112], Loss: 0.2137, Perplexity: 1.2383

Epoch [5/51], Step [60/112], Loss: 0.2365, Perplexity: 1.2667

Epoch [5/51], Step [70/112], Loss: 0.2312, Perplexity: 1.2601

Epoch [5/51], Step [80/112], Loss: 0.3125, Perplexity: 1.3669

Epoch [5/51], Step [90/112], Loss: 0.2633, Perplexity: 1.3012

Epoch [5/51], Step [100/112], Loss: 0.2286, Perplexity: 1.2569

Epoch [5/51], Step [110/112], Loss: 0.2063, Perplexity: 1.2291

epoch average loss: 0.2370

Epoch [6/51], Step [0/112], Loss: 0.2227, Perplexity: 1.2495

Epoch [6/51], Step [10/112], Loss: 0.1509, Perplexity: 1.1629

Epoch [6/51], Step [20/112], Loss: 0.2319, Perplexity: 1.2610

Epoch [6/51], Step [30/112], Loss: 0.2849, Perplexity: 1.3296

Epoch [6/51], Step [40/112], Loss: 0.2226, Perplexity: 1.2493

Epoch [6/51], Step [50/112], Loss: 0.2492, Perplexity: 1.2830

Epoch [6/51], Step [60/112], Loss: 0.2124, Perplexity: 1.2366

Epoch [6/51], Step [70/112], Loss: 0.2415, Perplexity: 1.2732

Epoch [6/51], Step [80/112], Loss: 0.2262, Perplexity: 1.2538

Epoch [6/51], Step [90/112], Loss: 0.2113, Perplexity: 1.2353

Epoch [6/51], Step [100/112], Loss: 0.2519, Perplexity: 1.2864

Epoch [6/51], Step [110/112], Loss: 0.2046, Perplexity: 1.2270

epoch average loss: 0.2340

Epoch [7/51], Step [0/112], Loss: 0.2596, Perplexity: 1.2964

Epoch [7/51], Step [10/112], Loss: 0.1854, Perplexity: 1.2037

Epoch [7/51], Step [20/112], Loss: 0.2944, Perplexity: 1.3423

Epoch [7/51], Step [30/112], Loss: 0.2992, Perplexity: 1.3488

Epoch [7/51], Step [40/112], Loss: 0.1735, Perplexity: 1.1895

Epoch [7/51], Step [50/112], Loss: 0.2885, Perplexity: 1.3344

Epoch [7/51], Step [60/112], Loss: 0.3223, Perplexity: 1.3804

Epoch [7/51], Step [70/112], Loss: 0.2776, Perplexity: 1.3200

Epoch [7/51], Step [80/112], Loss: 0.2400, Perplexity: 1.2713

Epoch [7/51], Step [90/112], Loss: 0.2330, Perplexity: 1.2624

Epoch [7/51], Step [100/112], Loss: 0.2911, Perplexity: 1.3379

Epoch [7/51], Step [110/112], Loss: 0.2572, Perplexity: 1.2932

epoch average loss: 0.2326

Epoch [8/51], Step [0/112], Loss: 0.2167, Perplexity: 1.2420

Epoch [8/51], Step [10/112], Loss: 0.2502, Perplexity: 1.2843

Epoch [8/51], Step [20/112], Loss: 0.2231, Perplexity: 1.2500

Epoch [8/51], Step [30/112], Loss: 0.2483, Perplexity: 1.2818

Epoch [8/51], Step [40/112], Loss: 0.2972, Perplexity: 1.3461

Epoch [8/51], Step [50/112], Loss: 0.2380, Perplexity: 1.2687

Epoch [8/51], Step [60/112], Loss: 0.2190, Perplexity: 1.2448

Epoch [8/51], Step [70/112], Loss: 0.2160, Perplexity: 1.2411

Epoch [8/51], Step [80/112], Loss: 0.2063, Perplexity: 1.2291

Epoch [8/51], Step [90/112], Loss: 0.1331, Perplexity: 1.1424

Epoch [8/51], Step [100/112], Loss: 0.2421, Perplexity: 1.2740

Epoch [8/51], Step [110/112], Loss: 0.2016, Perplexity: 1.2234

epoch average loss: 0.2297

Epoch [9/51], Step [0/112], Loss: 0.2260, Perplexity: 1.2536

Epoch [9/51], Step [10/112], Loss: 0.2728, Perplexity: 1.3137

Epoch [9/51], Step [20/112], Loss: 0.2000, Perplexity: 1.2215

Epoch [9/51], Step [30/112], Loss: 0.2474, Perplexity: 1.2807

Epoch [9/51], Step [40/112], Loss: 0.2098, Perplexity: 1.2334

Epoch [9/51], Step [50/112], Loss: 0.2238, Perplexity: 1.2508

Epoch [9/51], Step [60/112], Loss: 0.2073, Perplexity: 1.2303

Epoch [9/51], Step [70/112], Loss: 0.2091, Perplexity: 1.2326

Epoch [9/51], Step [80/112], Loss: 0.2421, Perplexity: 1.2739

Epoch [9/51], Step [90/112], Loss: 0.2103, Perplexity: 1.2340

Epoch [9/51], Step [100/112], Loss: 0.2647, Perplexity: 1.3031

Epoch [9/51], Step [110/112], Loss: 0.1969, Perplexity: 1.2176

epoch average loss: 0.2282

Epoch [10/51], Step [0/112], Loss: 0.2528, Perplexity: 1.2876

Epoch [10/51], Step [10/112], Loss: 0.2329, Perplexity: 1.2623

Epoch [10/51], Step [20/112], Loss: 0.2138, Perplexity: 1.2384

Epoch [10/51], Step [30/112], Loss: 0.1909, Perplexity: 1.2103

Epoch [10/51], Step [40/112], Loss: 0.2434, Perplexity: 1.2756

Epoch [10/51], Step [50/112], Loss: 0.2117, Perplexity: 1.2357

Epoch [10/51], Step [60/112], Loss: 0.2794, Perplexity: 1.3224

Epoch [10/51], Step [70/112], Loss: 0.2147, Perplexity: 1.2394

Epoch [10/51], Step [80/112], Loss: 0.2748, Perplexity: 1.3162

Epoch [10/51], Step [90/112], Loss: 0.2727, Perplexity: 1.3135

Epoch [10/51], Step [100/112], Loss: 0.2242, Perplexity: 1.2513

Epoch [10/51], Step [110/112], Loss: 0.2317, Perplexity: 1.2608

epoch average loss: 0.2256

Epoch [11/51], Step [0/112], Loss: 0.2230, Perplexity: 1.2498

Epoch [11/51], Step [10/112], Loss: 0.2032, Perplexity: 1.2253

Epoch [11/51], Step [20/112], Loss: 0.2389, Perplexity: 1.2699

Epoch [11/51], Step [30/112], Loss: 0.2411, Perplexity: 1.2726

Epoch [11/51], Step [40/112], Loss: 0.2234, Perplexity: 1.2504

Epoch [11/51], Step [50/112], Loss: 0.2231, Perplexity: 1.2499

Epoch [11/51], Step [60/112], Loss: 0.2389, Perplexity: 1.2699

Epoch [11/51], Step [70/112], Loss: 0.2107, Perplexity: 1.2346

Epoch [11/51], Step [80/112], Loss: 0.2456, Perplexity: 1.2784

Epoch [11/51], Step [90/112], Loss: 0.2406, Perplexity: 1.2720

Epoch [11/51], Step [100/112], Loss: 0.1556, Perplexity: 1.1684

Epoch [11/51], Step [110/112], Loss: 0.1941, Perplexity: 1.2142

epoch average loss: 0.2238

Epoch [12/51], Step [0/112], Loss: 0.2221, Perplexity: 1.2488

Epoch [12/51], Step [10/112], Loss: 0.1890, Perplexity: 1.2081

Epoch [12/51], Step [20/112], Loss: 0.2196, Perplexity: 1.2456

Epoch [12/51], Step [30/112], Loss: 0.3043, Perplexity: 1.3556

Epoch [12/51], Step [40/112], Loss: 0.2690, Perplexity: 1.3087

Epoch [12/51], Step [50/112], Loss: 0.2176, Perplexity: 1.2430

Epoch [12/51], Step [60/112], Loss: 0.2603, Perplexity: 1.2973

Epoch [12/51], Step [70/112], Loss: 0.2274, Perplexity: 1.2554

Epoch [12/51], Step [80/112], Loss: 0.2216, Perplexity: 1.2480

Epoch [12/51], Step [90/112], Loss: 0.1967, Perplexity: 1.2174

Epoch [12/51], Step [100/112], Loss: 0.1786, Perplexity: 1.1956

Epoch [12/51], Step [110/112], Loss: 0.2563, Perplexity: 1.2921

epoch average loss: 0.2205

Epoch [13/51], Step [0/112], Loss: 0.2890, Perplexity: 1.3351

Epoch [13/51], Step [10/112], Loss: 0.2159, Perplexity: 1.2410

Epoch [13/51], Step [20/112], Loss: 0.2009, Perplexity: 1.2224

Epoch [13/51], Step [30/112], Loss: 0.2051, Perplexity: 1.2276

Epoch [13/51], Step [40/112], Loss: 0.2112, Perplexity: 1.2352

Epoch [13/51], Step [50/112], Loss: 0.2392, Perplexity: 1.2702

Epoch [13/51], Step [60/112], Loss: 0.2294, Perplexity: 1.2579

Epoch [13/51], Step [70/112], Loss: 0.1790, Perplexity: 1.1960

Epoch [13/51], Step [80/112], Loss: 0.2016, Perplexity: 1.2234

Epoch [13/51], Step [90/112], Loss: 0.2869, Perplexity: 1.3323

Epoch [13/51], Step [100/112], Loss: 0.1538, Perplexity: 1.1662

Epoch [13/51], Step [110/112], Loss: 0.1971, Perplexity: 1.2179

epoch average loss: 0.2169

Epoch [14/51], Step [0/112], Loss: 0.1830, Perplexity: 1.2008

Epoch [14/51], Step [10/112], Loss: 0.2793, Perplexity: 1.3222

Epoch [14/51], Step [20/112], Loss: 0.2392, Perplexity: 1.2703

Epoch [14/51], Step [30/112], Loss: 0.2515, Perplexity: 1.2860

Epoch [14/51], Step [40/112], Loss: 0.1945, Perplexity: 1.2147

Epoch [14/51], Step [50/112], Loss: 0.2618, Perplexity: 1.2993

Epoch [14/51], Step [60/112], Loss: 0.2621, Perplexity: 1.2996

Epoch [14/51], Step [70/112], Loss: 0.1782, Perplexity: 1.1951

Epoch [14/51], Step [80/112], Loss: 0.2246, Perplexity: 1.2518

Epoch [14/51], Step [90/112], Loss: 0.2382, Perplexity: 1.2690

Epoch [14/51], Step [100/112], Loss: 0.1557, Perplexity: 1.1685

Epoch [14/51], Step [110/112], Loss: 0.2060, Perplexity: 1.2288

epoch average loss: 0.2177

Epoch [15/51], Step [0/112], Loss: 0.2370, Perplexity: 1.2675

Epoch [15/51], Step [10/112], Loss: 0.2095, Perplexity: 1.2331

Epoch [15/51], Step [20/112], Loss: 0.2523, Perplexity: 1.2869

Epoch [15/51], Step [30/112], Loss: 0.2163, Perplexity: 1.2415

Epoch [15/51], Step [40/112], Loss: 0.2162, Perplexity: 1.2413

Epoch [15/51], Step [50/112], Loss: 0.2021, Perplexity: 1.2240

Epoch [15/51], Step [60/112], Loss: 0.2659, Perplexity: 1.3046

Epoch [15/51], Step [70/112], Loss: 0.2149, Perplexity: 1.2397

Epoch [15/51], Step [80/112], Loss: 0.1830, Perplexity: 1.2008

Epoch [15/51], Step [90/112], Loss: 0.1833, Perplexity: 1.2012

Epoch [15/51], Step [100/112], Loss: 0.2637, Perplexity: 1.3017

Epoch [15/51], Step [110/112], Loss: 0.1927, Perplexity: 1.2125

epoch average loss: 0.2149

Epoch [16/51], Step [0/112], Loss: 0.2230, Perplexity: 1.2499

Epoch [16/51], Step [10/112], Loss: 0.2954, Perplexity: 1.3437

Epoch [16/51], Step [20/112], Loss: 0.1605, Perplexity: 1.1741

Epoch [16/51], Step [30/112], Loss: 0.2610, Perplexity: 1.2982

Epoch [16/51], Step [40/112], Loss: 0.2080, Perplexity: 1.2312

Epoch [16/51], Step [50/112], Loss: 0.1908, Perplexity: 1.2102

Epoch [16/51], Step [60/112], Loss: 0.2262, Perplexity: 1.2539

Epoch [16/51], Step [70/112], Loss: 0.2888, Perplexity: 1.3348

Epoch [16/51], Step [80/112], Loss: 0.2207, Perplexity: 1.2469

Epoch [16/51], Step [90/112], Loss: 0.1991, Perplexity: 1.2203

Epoch [16/51], Step [100/112], Loss: 0.2184, Perplexity: 1.2441

Epoch [16/51], Step [110/112], Loss: 0.1952, Perplexity: 1.2155

epoch average loss: 0.2156

Epoch [17/51], Step [0/112], Loss: 0.2955, Perplexity: 1.3438

Epoch [17/51], Step [10/112], Loss: 0.1997, Perplexity: 1.2211

Epoch [17/51], Step [20/112], Loss: 0.2027, Perplexity: 1.2247

Epoch [17/51], Step [30/112], Loss: 0.1987, Perplexity: 1.2198

Epoch [17/51], Step [40/112], Loss: 0.2290, Perplexity: 1.2573

Epoch [17/51], Step [50/112], Loss: 0.2066, Perplexity: 1.2295

Epoch [17/51], Step [60/112], Loss: 0.2140, Perplexity: 1.2386

Epoch [17/51], Step [70/112], Loss: 0.2402, Perplexity: 1.2715

Epoch [17/51], Step [80/112], Loss: 0.2007, Perplexity: 1.2223

Epoch [17/51], Step [90/112], Loss: 0.2192, Perplexity: 1.2451

Epoch [17/51], Step [100/112], Loss: 0.2724, Perplexity: 1.3131

Epoch [17/51], Step [110/112], Loss: 0.2281, Perplexity: 1.2562

epoch average loss: 0.2113

Epoch [18/51], Step [0/112], Loss: 0.2110, Perplexity: 1.2349

Epoch [18/51], Step [10/112], Loss: 0.1925, Perplexity: 1.2123

Epoch [18/51], Step [20/112], Loss: 0.2292, Perplexity: 1.2576

Epoch [18/51], Step [30/112], Loss: 0.1823, Perplexity: 1.2000

Epoch [18/51], Step [40/112], Loss: 0.2144, Perplexity: 1.2391

Epoch [18/51], Step [50/112], Loss: 0.1649, Perplexity: 1.1793

Epoch [18/51], Step [60/112], Loss: 0.2242, Perplexity: 1.2513

Epoch [18/51], Step [70/112], Loss: 0.1880, Perplexity: 1.2069

Epoch [18/51], Step [80/112], Loss: 0.1432, Perplexity: 1.1539

Epoch [18/51], Step [90/112], Loss: 0.1867, Perplexity: 1.2053

Epoch [18/51], Step [100/112], Loss: 0.2536, Perplexity: 1.2886

Epoch [18/51], Step [110/112], Loss: 0.1786, Perplexity: 1.1956

epoch average loss: 0.2094

Epoch [19/51], Step [0/112], Loss: 0.1692, Perplexity: 1.1843

Epoch [19/51], Step [10/112], Loss: 0.1606, Perplexity: 1.1742

Epoch [19/51], Step [20/112], Loss: 0.1674, Perplexity: 1.1823

Epoch [19/51], Step [30/112], Loss: 0.1902, Perplexity: 1.2095

Epoch [19/51], Step [40/112], Loss: 0.1789, Perplexity: 1.1959

Epoch [19/51], Step [50/112], Loss: 0.2090, Perplexity: 1.2325

Epoch [19/51], Step [60/112], Loss: 0.1603, Perplexity: 1.1738

Epoch [19/51], Step [70/112], Loss: 0.1535, Perplexity: 1.1660

Epoch [19/51], Step [80/112], Loss: 0.1638, Perplexity: 1.1780

Epoch [19/51], Step [90/112], Loss: 0.2132, Perplexity: 1.2376

Epoch [19/51], Step [100/112], Loss: 0.1949, Perplexity: 1.2151

Epoch [19/51], Step [110/112], Loss: 0.2037, Perplexity: 1.2260

epoch average loss: 0.2072

Epoch [20/51], Step [0/112], Loss: 0.2650, Perplexity: 1.3034

Epoch [20/51], Step [10/112], Loss: 0.2011, Perplexity: 1.2227

Epoch [20/51], Step [20/112], Loss: 0.1691, Perplexity: 1.1842

Epoch [20/51], Step [30/112], Loss: 0.1967, Perplexity: 1.2174

Epoch [20/51], Step [40/112], Loss: 0.2222, Perplexity: 1.2488

Epoch [20/51], Step [50/112], Loss: 0.1940, Perplexity: 1.2141

Epoch [20/51], Step [60/112], Loss: 0.1830, Perplexity: 1.2008

Epoch [20/51], Step [70/112], Loss: 0.1518, Perplexity: 1.1639

Epoch [20/51], Step [80/112], Loss: 0.2010, Perplexity: 1.2226

Epoch [20/51], Step [90/112], Loss: 0.2184, Perplexity: 1.2441

Epoch [20/51], Step [100/112], Loss: 0.1974, Perplexity: 1.2183

Epoch [20/51], Step [110/112], Loss: 0.2189, Perplexity: 1.2447

epoch average loss: 0.2058

Epoch [21/51], Step [0/112], Loss: 0.2103, Perplexity: 1.2340

Epoch [21/51], Step [10/112], Loss: 0.2334, Perplexity: 1.2629

Epoch [21/51], Step [20/112], Loss: 0.2383, Perplexity: 1.2691

Epoch [21/51], Step [30/112], Loss: 0.2115, Perplexity: 1.2356

Epoch [21/51], Step [40/112], Loss: 0.1934, Perplexity: 1.2133

Epoch [21/51], Step [50/112], Loss: 0.1990, Perplexity: 1.2202

Epoch [21/51], Step [60/112], Loss: 0.1583, Perplexity: 1.1715

Epoch [21/51], Step [70/112], Loss: 0.2217, Perplexity: 1.2482

Epoch [21/51], Step [80/112], Loss: 0.2033, Perplexity: 1.2255

Epoch [21/51], Step [90/112], Loss: 0.1980, Perplexity: 1.2189

Epoch [21/51], Step [100/112], Loss: 0.1980, Perplexity: 1.2189

Epoch [21/51], Step [110/112], Loss: 0.2248, Perplexity: 1.2521

epoch average loss: 0.2020

Epoch [22/51], Step [0/112], Loss: 0.1704, Perplexity: 1.1858

Epoch [22/51], Step [10/112], Loss: 0.1974, Perplexity: 1.2182

Epoch [22/51], Step [20/112], Loss: 0.1784, Perplexity: 1.1953

Epoch [22/51], Step [30/112], Loss: 0.1843, Perplexity: 1.2023

Epoch [22/51], Step [40/112], Loss: 0.2636, Perplexity: 1.3017

Epoch [22/51], Step [50/112], Loss: 0.2137, Perplexity: 1.2382

Epoch [22/51], Step [60/112], Loss: 0.1839, Perplexity: 1.2019

Epoch [22/51], Step [70/112], Loss: 0.2373, Perplexity: 1.2679

Epoch [22/51], Step [80/112], Loss: 0.2468, Perplexity: 1.2799

Epoch [22/51], Step [90/112], Loss: 0.2037, Perplexity: 1.2259

Epoch [22/51], Step [100/112], Loss: 0.2078, Perplexity: 1.2310

Epoch [22/51], Step [110/112], Loss: 0.1799, Perplexity: 1.1971

epoch average loss: 0.1950

Epoch [23/51], Step [0/112], Loss: 0.2144, Perplexity: 1.2391

Epoch [23/51], Step [10/112], Loss: 0.1457, Perplexity: 1.1569

Epoch [23/51], Step [20/112], Loss: 0.1687, Perplexity: 1.1837

Epoch [23/51], Step [30/112], Loss: 0.2338, Perplexity: 1.2634

Epoch [23/51], Step [40/112], Loss: 0.2928, Perplexity: 1.3402

Epoch [23/51], Step [50/112], Loss: 0.2340, Perplexity: 1.2637

Epoch [23/51], Step [60/112], Loss: 0.1133, Perplexity: 1.1199

Epoch [23/51], Step [70/112], Loss: 0.1735, Perplexity: 1.1895

Epoch [23/51], Step [80/112], Loss: 0.1613, Perplexity: 1.1751

Epoch [23/51], Step [90/112], Loss: 0.1948, Perplexity: 1.2151

Epoch [23/51], Step [100/112], Loss: 0.1534, Perplexity: 1.1658

Epoch [23/51], Step [110/112], Loss: 0.1816, Perplexity: 1.1992

epoch average loss: 0.1929

Epoch [24/51], Step [0/112], Loss: 0.1772, Perplexity: 1.1939

Epoch [24/51], Step [10/112], Loss: 0.2003, Perplexity: 1.2217

Epoch [24/51], Step [20/112], Loss: 0.1953, Perplexity: 1.2157

Epoch [24/51], Step [30/112], Loss: 0.1381, Perplexity: 1.1480

Epoch [24/51], Step [40/112], Loss: 0.1813, Perplexity: 1.1988

Epoch [24/51], Step [50/112], Loss: 0.2630, Perplexity: 1.3009

Epoch [24/51], Step [60/112], Loss: 0.1408, Perplexity: 1.1512

Epoch [24/51], Step [70/112], Loss: 0.1999, Perplexity: 1.2212

Epoch [24/51], Step [80/112], Loss: 0.1860, Perplexity: 1.2044

Epoch [24/51], Step [90/112], Loss: 0.1555, Perplexity: 1.1682

Epoch [24/51], Step [100/112], Loss: 0.1969, Perplexity: 1.2176

Epoch [24/51], Step [110/112], Loss: 0.1663, Perplexity: 1.1809

epoch average loss: 0.1916

Epoch [25/51], Step [0/112], Loss: 0.2155, Perplexity: 1.2404

Epoch [25/51], Step [10/112], Loss: 0.1805, Perplexity: 1.1978

Epoch [25/51], Step [20/112], Loss: 0.2151, Perplexity: 1.2400

Epoch [25/51], Step [30/112], Loss: 0.0993, Perplexity: 1.1043

Epoch [25/51], Step [40/112], Loss: 0.2555, Perplexity: 1.2912

Epoch [25/51], Step [50/112], Loss: 0.1765, Perplexity: 1.1931

Epoch [25/51], Step [60/112], Loss: 0.2067, Perplexity: 1.2297

Epoch [25/51], Step [70/112], Loss: 0.1486, Perplexity: 1.1602

Epoch [25/51], Step [80/112], Loss: 0.1874, Perplexity: 1.2061

Epoch [25/51], Step [90/112], Loss: 0.1894, Perplexity: 1.2086

Epoch [25/51], Step [100/112], Loss: 0.1595, Perplexity: 1.1729

Epoch [25/51], Step [110/112], Loss: 0.1643, Perplexity: 1.1786

epoch average loss: 0.1898

Epoch [26/51], Step [0/112], Loss: 0.2352, Perplexity: 1.2651

Epoch [26/51], Step [10/112], Loss: 0.2351, Perplexity: 1.2651

Epoch [26/51], Step [20/112], Loss: 0.1557, Perplexity: 1.1684

Epoch [26/51], Step [30/112], Loss: 0.2212, Perplexity: 1.2475

Epoch [26/51], Step [40/112], Loss: 0.1995, Perplexity: 1.2209

Epoch [26/51], Step [50/112], Loss: 0.1958, Perplexity: 1.2163

Epoch [26/51], Step [60/112], Loss: 0.1997, Perplexity: 1.2211

Epoch [26/51], Step [70/112], Loss: 0.2055, Perplexity: 1.2282

Epoch [26/51], Step [80/112], Loss: 0.1385, Perplexity: 1.1485

Epoch [26/51], Step [90/112], Loss: 0.1897, Perplexity: 1.2088

Epoch [26/51], Step [100/112], Loss: 0.1509, Perplexity: 1.1629

Epoch [26/51], Step [110/112], Loss: 0.1735, Perplexity: 1.1894

epoch average loss: 0.1915

Epoch [27/51], Step [0/112], Loss: 0.1813, Perplexity: 1.1988

Epoch [27/51], Step [10/112], Loss: 0.1907, Perplexity: 1.2101

Epoch [27/51], Step [20/112], Loss: 0.2272, Perplexity: 1.2551

Epoch [27/51], Step [30/112], Loss: 0.1731, Perplexity: 1.1890

Epoch [27/51], Step [40/112], Loss: 0.1951, Perplexity: 1.2154

Epoch [27/51], Step [50/112], Loss: 0.1616, Perplexity: 1.1754

Epoch [27/51], Step [60/112], Loss: 0.2283, Perplexity: 1.2564

Epoch [27/51], Step [70/112], Loss: 0.2252, Perplexity: 1.2526

Epoch [27/51], Step [80/112], Loss: 0.2115, Perplexity: 1.2355

Epoch [27/51], Step [90/112], Loss: 0.1558, Perplexity: 1.1686

Epoch [27/51], Step [100/112], Loss: 0.2139, Perplexity: 1.2385

Epoch [27/51], Step [110/112], Loss: 0.1557, Perplexity: 1.1685

epoch average loss: 0.1899

Epoch [28/51], Step [0/112], Loss: 0.1795, Perplexity: 1.1966

Epoch [28/51], Step [10/112], Loss: 0.1090, Perplexity: 1.1152

Epoch [28/51], Step [20/112], Loss: 0.2025, Perplexity: 1.2245

Epoch [28/51], Step [30/112], Loss: 0.1756, Perplexity: 1.1920

Epoch [28/51], Step [40/112], Loss: 0.1935, Perplexity: 1.2135

Epoch [28/51], Step [50/112], Loss: 0.2293, Perplexity: 1.2577

Epoch [28/51], Step [60/112], Loss: 0.1820, Perplexity: 1.1996

Epoch [28/51], Step [70/112], Loss: 0.1146, Perplexity: 1.1214

Epoch [28/51], Step [80/112], Loss: 0.1904, Perplexity: 1.2097

Epoch [28/51], Step [90/112], Loss: 0.2020, Perplexity: 1.2238

Epoch [28/51], Step [100/112], Loss: 0.1181, Perplexity: 1.1254

Epoch [28/51], Step [110/112], Loss: 0.2363, Perplexity: 1.2666

epoch average loss: 0.1907

Epoch [29/51], Step [0/112], Loss: 0.1581, Perplexity: 1.1712

Epoch [29/51], Step [10/112], Loss: 0.1812, Perplexity: 1.1987

Epoch [29/51], Step [20/112], Loss: 0.1404, Perplexity: 1.1507

Epoch [29/51], Step [30/112], Loss: 0.2533, Perplexity: 1.2883

Epoch [29/51], Step [40/112], Loss: 0.1209, Perplexity: 1.1285

Epoch [29/51], Step [50/112], Loss: 0.1758, Perplexity: 1.1922

Epoch [29/51], Step [60/112], Loss: 0.2024, Perplexity: 1.2243

Epoch [29/51], Step [70/112], Loss: 0.1741, Perplexity: 1.1901

Epoch [29/51], Step [80/112], Loss: 0.1958, Perplexity: 1.2163

Epoch [29/51], Step [90/112], Loss: 0.1852, Perplexity: 1.2035

Epoch [29/51], Step [100/112], Loss: 0.2231, Perplexity: 1.2499

Epoch [29/51], Step [110/112], Loss: 0.2218, Perplexity: 1.2483

epoch average loss: 0.1914

Epoch [30/51], Step [0/112], Loss: 0.2032, Perplexity: 1.2253

forrtl: error (200): program aborting due to control-C event

Image PC Routine Line Source

libifcoremd.dll 00007FFC7DCE94C4 Unknown Unknown Unknown

KERNELBASE.dll 00007FFCBF435FD3 Unknown Unknown Unknown

KERNEL32.DLL 00007FFCBFAB7BD4 Unknown Unknown Unknown

ntdll.dll 00007FFCC192CED1 Unknown Unknown Unknown

E:\Code\python\multi-label\Multiple-instance-learning-master\CNN\_RNN>

E:\Code\python\multi-label\Multiple-instance-learning-master\CNN\_RNN>python train.py

Namespace(batch\_size=80, caption\_path='data/annotations/img\_tag.txt', crop\_size=224, embed\_size=512, hidden\_size=1024, image\_dir='data/resized2007', learning\_rate=0.0001, log\_step=10, model\_path='models/', num\_epochs=51, num\_layers=1, num\_workers=0, save\_step=50, vocab\_path='data/zh\_vocab\_2007.pkl')

load vocabulary ...

build data loader ...

build the models ...

Epoch [1/51], Step [0/112], Loss: 0.1271, Perplexity: 1.1355

Epoch [1/51], Step [10/112], Loss: 0.1780, Perplexity: 1.1949

Epoch [1/51], Step [20/112], Loss: 0.1652, Perplexity: 1.1797

Epoch [1/51], Step [30/112], Loss: 0.2729, Perplexity: 1.3138

Epoch [1/51], Step [40/112], Loss: 0.1567, Perplexity: 1.1697

Epoch [1/51], Step [50/112], Loss: 0.1703, Perplexity: 1.1857

Epoch [1/51], Step [60/112], Loss: 0.2373, Perplexity: 1.2679

Epoch [1/51], Step [70/112], Loss: 0.2172, Perplexity: 1.2426

Epoch [1/51], Step [80/112], Loss: 0.2479, Perplexity: 1.2814

Epoch [1/51], Step [90/112], Loss: 0.1845, Perplexity: 1.2026

Epoch [1/51], Step [100/112], Loss: 0.1666, Perplexity: 1.1812

Epoch [1/51], Step [110/112], Loss: 0.1471, Perplexity: 1.1585

epoch average loss: 0.1971

Epoch [2/51], Step [0/112], Loss: 0.1831, Perplexity: 1.2010

Epoch [2/51], Step [10/112], Loss: 0.1945, Perplexity: 1.2147

Epoch [2/51], Step [20/112], Loss: 0.1421, Perplexity: 1.1527

Epoch [2/51], Step [30/112], Loss: 0.1631, Perplexity: 1.1771

Epoch [2/51], Step [40/112], Loss: 0.2034, Perplexity: 1.2256

Epoch [2/51], Step [50/112], Loss: 0.2248, Perplexity: 1.2521

forrtl: error (200): program aborting due to control-C event

Image PC Routine Line Source

libifcoremd.dll 00007FFC7D4394C4 Unknown Unknown Unknown

KERNELBASE.dll 00007FFCBF435FD3 Unknown Unknown Unknown

KERNEL32.DLL 00007FFCBFAB7BD4 Unknown Unknown Unknown

ntdll.dll 00007FFCC192CED1 Unknown Unknown Unknown

E:\Code\python\multi-label\Multiple-instance-learning-master\CNN\_RNN>

E:\Code\python\multi-label\Multiple-instance-learning-master\CNN\_RNN>

E:\Code\python\multi-label\Multiple-instance-learning-master\CNN\_RNN>python train.py

Namespace(batch\_size=80, caption\_path='data/annotations/img\_tag.txt', crop\_size=224, embed\_size=512, hidden\_size=1024, image\_dir='data/resized2007', learning\_rate=0.0001, log\_step=10, model\_path='models/', num\_epochs=51, num\_layers=1, num\_workers=0, save\_step=50, vocab\_path='data/zh\_vocab\_2007.pkl')

load vocabulary ...

build data loader ...

build the models ...

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Epoch [1/51], Step [20/112], Loss: 0.2220, Perplexity: 1.2486

Epoch [1/51], Step [30/112], Loss: 0.1580, Perplexity: 1.1712

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Epoch [1/51], Step [50/112], Loss: 0.1543, Perplexity: 1.1669

Epoch [1/51], Step [60/112], Loss: 0.2171, Perplexity: 1.2425

Epoch [1/51], Step [70/112], Loss: 0.2095, Perplexity: 1.2331

Epoch [1/51], Step [80/112], Loss: 0.1850, Perplexity: 1.2032

Epoch [1/51], Step [90/112], Loss: 0.1979, Perplexity: 1.2189

Epoch [1/51], Step [100/112], Loss: 0.2157, Perplexity: 1.2407

Epoch [1/51], Step [110/112], Loss: 0.1542, Perplexity: 1.1667

epoch average loss: 0.1984

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Epoch [2/51], Step [20/112], Loss: 0.1902, Perplexity: 1.2095

Epoch [2/51], Step [30/112], Loss: 0.2270, Perplexity: 1.2548

Epoch [2/51], Step [40/112], Loss: 0.2227, Perplexity: 1.2495

Epoch [2/51], Step [50/112], Loss: 0.1874, Perplexity: 1.2062

Epoch [2/51], Step [60/112], Loss: 0.2050, Perplexity: 1.2275

Epoch [2/51], Step [70/112], Loss: 0.2195, Perplexity: 1.2455

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Epoch [2/51], Step [90/112], Loss: 0.1843, Perplexity: 1.2023

Epoch [2/51], Step [100/112], Loss: 0.1924, Perplexity: 1.2121

Epoch [2/51], Step [110/112], Loss: 0.2361, Perplexity: 1.2664

epoch average loss: 0.1999

Epoch [3/51], Step [0/112], Loss: 0.1762, Perplexity: 1.1926

Epoch [3/51], Step [10/112], Loss: 0.1851, Perplexity: 1.2033

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Epoch [3/51], Step [30/112], Loss: 0.2089, Perplexity: 1.2324

Epoch [3/51], Step [40/112], Loss: 0.2216, Perplexity: 1.2481

Epoch [3/51], Step [50/112], Loss: 0.1774, Perplexity: 1.1941

Epoch [3/51], Step [60/112], Loss: 0.1945, Perplexity: 1.2147

Epoch [3/51], Step [70/112], Loss: 0.1390, Perplexity: 1.1491

Epoch [3/51], Step [80/112], Loss: 0.1889, Perplexity: 1.2079

Epoch [3/51], Step [90/112], Loss: 0.1842, Perplexity: 1.2023

Epoch [3/51], Step [100/112], Loss: 0.1842, Perplexity: 1.2023

Epoch [3/51], Step [110/112], Loss: 0.1824, Perplexity: 1.2001

epoch average loss: 0.1938

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Epoch [4/51], Step [10/112], Loss: 0.2161, Perplexity: 1.2413

Epoch [4/51], Step [20/112], Loss: 0.1505, Perplexity: 1.1624

Epoch [4/51], Step [30/112], Loss: 0.2011, Perplexity: 1.2228

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Epoch [4/51], Step [50/112], Loss: 0.1692, Perplexity: 1.1843

Epoch [4/51], Step [60/112], Loss: 0.1869, Perplexity: 1.2056

Epoch [4/51], Step [70/112], Loss: 0.1564, Perplexity: 1.1693

Epoch [4/51], Step [80/112], Loss: 0.1799, Perplexity: 1.1971

Epoch [4/51], Step [90/112], Loss: 0.1630, Perplexity: 1.1771

Epoch [4/51], Step [100/112], Loss: 0.1880, Perplexity: 1.2068

Epoch [4/51], Step [110/112], Loss: 0.2332, Perplexity: 1.2627

epoch average loss: 0.1933

Epoch [5/51], Step [0/112], Loss: 0.1509, Perplexity: 1.1628

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Epoch [5/51], Step [30/112], Loss: 0.1752, Perplexity: 1.1915

Epoch [5/51], Step [40/112], Loss: 0.2547, Perplexity: 1.2901

Epoch [5/51], Step [50/112], Loss: 0.2740, Perplexity: 1.3152

Epoch [5/51], Step [60/112], Loss: 0.1659, Perplexity: 1.1805

Epoch [5/51], Step [70/112], Loss: 0.1911, Perplexity: 1.2105

Epoch [5/51], Step [80/112], Loss: 0.2015, Perplexity: 1.2233

Epoch [5/51], Step [90/112], Loss: 0.1314, Perplexity: 1.1405

Epoch [5/51], Step [100/112], Loss: 0.2219, Perplexity: 1.2485

Epoch [5/51], Step [110/112], Loss: 0.2324, Perplexity: 1.2617

epoch average loss: 0.1893

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Epoch [6/51], Step [10/112], Loss: 0.1851, Perplexity: 1.2033

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Epoch [6/51], Step [30/112], Loss: 0.1933, Perplexity: 1.2133

Epoch [6/51], Step [40/112], Loss: 0.2022, Perplexity: 1.2241

Epoch [6/51], Step [50/112], Loss: 0.2136, Perplexity: 1.2381

Epoch [6/51], Step [60/112], Loss: 0.1775, Perplexity: 1.1942

Epoch [6/51], Step [70/112], Loss: 0.1474, Perplexity: 1.1589

Epoch [6/51], Step [80/112], Loss: 0.1210, Perplexity: 1.1286

Epoch [6/51], Step [90/112], Loss: 0.2065, Perplexity: 1.2293

Epoch [6/51], Step [100/112], Loss: 0.1732, Perplexity: 1.1892

Epoch [6/51], Step [110/112], Loss: 0.1547, Perplexity: 1.1673

epoch average loss: 0.1909

Epoch [7/51], Step [0/112], Loss: 0.1551, Perplexity: 1.1677

Epoch [7/51], Step [10/112], Loss: 0.1929, Perplexity: 1.2127

Epoch [7/51], Step [20/112], Loss: 0.1548, Perplexity: 1.1674

Epoch [7/51], Step [30/112], Loss: 0.2427, Perplexity: 1.2747

Epoch [7/51], Step [40/112], Loss: 0.2145, Perplexity: 1.2392

Epoch [7/51], Step [50/112], Loss: 0.2276, Perplexity: 1.2556

Epoch [7/51], Step [60/112], Loss: 0.1340, Perplexity: 1.1434

Epoch [7/51], Step [70/112], Loss: 0.2312, Perplexity: 1.2601

Epoch [7/51], Step [80/112], Loss: 0.1720, Perplexity: 1.1877

Epoch [7/51], Step [90/112], Loss: 0.1626, Perplexity: 1.1765

Epoch [7/51], Step [100/112], Loss: 0.2080, Perplexity: 1.2312

Epoch [7/51], Step [110/112], Loss: 0.2154, Perplexity: 1.2403

epoch average loss: 0.1883

Epoch [8/51], Step [0/112], Loss: 0.1745, Perplexity: 1.1906

Epoch [8/51], Step [10/112], Loss: 0.1967, Perplexity: 1.2173

Epoch [8/51], Step [20/112], Loss: 0.1459, Perplexity: 1.1571

Epoch [8/51], Step [30/112], Loss: 0.1754, Perplexity: 1.1917

Epoch [8/51], Step [40/112], Loss: 0.1712, Perplexity: 1.1868

Epoch [8/51], Step [50/112], Loss: 0.2159, Perplexity: 1.2410

Epoch [8/51], Step [60/112], Loss: 0.2080, Perplexity: 1.2313

Epoch [8/51], Step [70/112], Loss: 0.1673, Perplexity: 1.1822

Epoch [8/51], Step [80/112], Loss: 0.1663, Perplexity: 1.1809

Epoch [8/51], Step [90/112], Loss: 0.1578, Perplexity: 1.1709

Epoch [8/51], Step [100/112], Loss: 0.2110, Perplexity: 1.2350

Epoch [8/51], Step [110/112], Loss: 0.2014, Perplexity: 1.2231

epoch average loss: 0.1856

Epoch [9/51], Step [0/112], Loss: 0.1832, Perplexity: 1.2010

Epoch [9/51], Step [10/112], Loss: 0.2302, Perplexity: 1.2589

Epoch [9/51], Step [20/112], Loss: 0.1865, Perplexity: 1.2051

Epoch [9/51], Step [30/112], Loss: 0.1670, Perplexity: 1.1817

Epoch [9/51], Step [40/112], Loss: 0.1994, Perplexity: 1.2207

Epoch [9/51], Step [50/112], Loss: 0.1715, Perplexity: 1.1871

Epoch [9/51], Step [60/112], Loss: 0.1982, Perplexity: 1.2192

Epoch [9/51], Step [70/112], Loss: 0.1739, Perplexity: 1.1900

Epoch [9/51], Step [80/112], Loss: 0.1742, Perplexity: 1.1903

Epoch [9/51], Step [90/112], Loss: 0.2196, Perplexity: 1.2456

Epoch [9/51], Step [100/112], Loss: 0.2142, Perplexity: 1.2389

Epoch [9/51], Step [110/112], Loss: 0.1995, Perplexity: 1.2208

epoch average loss: 0.1828

Epoch [10/51], Step [0/112], Loss: 0.1837, Perplexity: 1.2017

Epoch [10/51], Step [10/112], Loss: 0.1451, Perplexity: 1.1561

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Epoch [10/51], Step [30/112], Loss: 0.1193, Perplexity: 1.1267

Epoch [10/51], Step [40/112], Loss: 0.2067, Perplexity: 1.2296

Epoch [10/51], Step [50/112], Loss: 0.1752, Perplexity: 1.1915

Epoch [10/51], Step [60/112], Loss: 0.1613, Perplexity: 1.1750

Epoch [10/51], Step [70/112], Loss: 0.1857, Perplexity: 1.2041

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Epoch [10/51], Step [90/112], Loss: 0.1482, Perplexity: 1.1598

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Epoch [10/51], Step [110/112], Loss: 0.1669, Perplexity: 1.1816

epoch average loss: 0.1815

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Epoch [11/51], Step [10/112], Loss: 0.2022, Perplexity: 1.2241

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Epoch [11/51], Step [60/112], Loss: 0.1563, Perplexity: 1.1692

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Epoch [11/51], Step [110/112], Loss: 0.1807, Perplexity: 1.1980

epoch average loss: 0.1806

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Epoch [12/51], Step [10/112], Loss: 0.1627, Perplexity: 1.1767

Epoch [12/51], Step [20/112], Loss: 0.1374, Perplexity: 1.1473

Epoch [12/51], Step [30/112], Loss: 0.1643, Perplexity: 1.1786

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Epoch [12/51], Step [110/112], Loss: 0.1641, Perplexity: 1.1783

epoch average loss: 0.1790

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Epoch [13/51], Step [30/112], Loss: 0.1582, Perplexity: 1.1714

Epoch [13/51], Step [40/112], Loss: 0.1774, Perplexity: 1.1941

Epoch [13/51], Step [50/112], Loss: 0.1818, Perplexity: 1.1994

Epoch [13/51], Step [60/112], Loss: 0.1709, Perplexity: 1.1864

Epoch [13/51], Step [70/112], Loss: 0.2080, Perplexity: 1.2313

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Epoch [13/51], Step [100/112], Loss: 0.1961, Perplexity: 1.2166

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epoch average loss: 0.1777

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Epoch [14/51], Step [100/112], Loss: 0.2262, Perplexity: 1.2538

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epoch average loss: 0.1730

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Epoch [15/51], Step [50/112], Loss: 0.1887, Perplexity: 1.2076

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Epoch [15/51], Step [90/112], Loss: 0.1476, Perplexity: 1.1591

Epoch [15/51], Step [100/112], Loss: 0.1492, Perplexity: 1.1610

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epoch average loss: 0.1736

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Epoch [16/51], Step [20/112], Loss: 0.1938, Perplexity: 1.2139

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Epoch [16/51], Step [40/112], Loss: 0.1655, Perplexity: 1.1800

Epoch [16/51], Step [50/112], Loss: 0.1987, Perplexity: 1.2198

Epoch [16/51], Step [60/112], Loss: 0.1307, Perplexity: 1.1396

Epoch [16/51], Step [70/112], Loss: 0.1504, Perplexity: 1.1623

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epoch average loss: 0.1706

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Epoch [17/51], Step [30/112], Loss: 0.1446, Perplexity: 1.1556

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epoch average loss: 0.1718

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Epoch [18/51], Step [50/112], Loss: 0.1638, Perplexity: 1.1780

Epoch [18/51], Step [60/112], Loss: 0.1855, Perplexity: 1.2038

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Epoch [18/51], Step [90/112], Loss: 0.1247, Perplexity: 1.1329

Epoch [18/51], Step [100/112], Loss: 0.1634, Perplexity: 1.1775

Epoch [18/51], Step [110/112], Loss: 0.1358, Perplexity: 1.1455

epoch average loss: 0.1667

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Epoch [19/51], Step [40/112], Loss: 0.1346, Perplexity: 1.1440

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Epoch [19/51], Step [70/112], Loss: 0.1459, Perplexity: 1.1571

Epoch [19/51], Step [80/112], Loss: 0.1897, Perplexity: 1.2089

Epoch [19/51], Step [90/112], Loss: 0.1445, Perplexity: 1.1555

Epoch [19/51], Step [100/112], Loss: 0.1385, Perplexity: 1.1486

Epoch [19/51], Step [110/112], Loss: 0.1237, Perplexity: 1.1317

epoch average loss: 0.1633

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Epoch [20/51], Step [20/112], Loss: 0.1443, Perplexity: 1.1553

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Epoch [20/51], Step [50/112], Loss: 0.2012, Perplexity: 1.2228

Epoch [20/51], Step [60/112], Loss: 0.2100, Perplexity: 1.2337

Epoch [20/51], Step [70/112], Loss: 0.1317, Perplexity: 1.1408

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Epoch [20/51], Step [100/112], Loss: 0.1452, Perplexity: 1.1562

Epoch [20/51], Step [110/112], Loss: 0.1561, Perplexity: 1.1690

epoch average loss: 0.1629

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Epoch [21/51], Step [110/112], Loss: 0.1701, Perplexity: 1.1855

epoch average loss: 0.1621

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Epoch [22/51], Step [40/112], Loss: 0.1298, Perplexity: 1.1386

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Epoch [22/51], Step [60/112], Loss: 0.1425, Perplexity: 1.1532

Epoch [22/51], Step [70/112], Loss: 0.1585, Perplexity: 1.1718

Epoch [22/51], Step [80/112], Loss: 0.1651, Perplexity: 1.1796

Epoch [22/51], Step [90/112], Loss: 0.1422, Perplexity: 1.1528

Epoch [22/51], Step [100/112], Loss: 0.2111, Perplexity: 1.2350

Epoch [22/51], Step [110/112], Loss: 0.1549, Perplexity: 1.1676

epoch average loss: 0.1584

Epoch [23/51], Step [0/112], Loss: 0.1527, Perplexity: 1.1650

Epoch [23/51], Step [10/112], Loss: 0.1442, Perplexity: 1.1551

Epoch [23/51], Step [20/112], Loss: 0.1245, Perplexity: 1.1326

Epoch [23/51], Step [30/112], Loss: 0.1757, Perplexity: 1.1921

Epoch [23/51], Step [40/112], Loss: 0.1540, Perplexity: 1.1664

Epoch [23/51], Step [50/112], Loss: 0.1804, Perplexity: 1.1977

Epoch [23/51], Step [60/112], Loss: 0.1681, Perplexity: 1.1830

Epoch [23/51], Step [70/112], Loss: 0.1607, Perplexity: 1.1744

Epoch [23/51], Step [80/112], Loss: 0.1413, Perplexity: 1.1518

Epoch [23/51], Step [90/112], Loss: 0.2096, Perplexity: 1.2332

Epoch [23/51], Step [100/112], Loss: 0.1776, Perplexity: 1.1944

Epoch [23/51], Step [110/112], Loss: 0.1344, Perplexity: 1.1438

epoch average loss: 0.1568

Epoch [24/51], Step [0/112], Loss: 0.1201, Perplexity: 1.1276

Epoch [24/51], Step [10/112], Loss: 0.1802, Perplexity: 1.1975

Epoch [24/51], Step [20/112], Loss: 0.2063, Perplexity: 1.2291

Epoch [24/51], Step [30/112], Loss: 0.1689, Perplexity: 1.1840

Epoch [24/51], Step [40/112], Loss: 0.1615, Perplexity: 1.1753

Epoch [24/51], Step [50/112], Loss: 0.1324, Perplexity: 1.1415

Epoch [24/51], Step [60/112], Loss: 0.2018, Perplexity: 1.2236

Epoch [24/51], Step [70/112], Loss: 0.1513, Perplexity: 1.1633

Epoch [24/51], Step [80/112], Loss: 0.1581, Perplexity: 1.1713

Epoch [24/51], Step [90/112], Loss: 0.1456, Perplexity: 1.1567

Epoch [24/51], Step [100/112], Loss: 0.1161, Perplexity: 1.1231

Epoch [24/51], Step [110/112], Loss: 0.2015, Perplexity: 1.2232

epoch average loss: 0.1542

Epoch [25/51], Step [0/112], Loss: 0.1875, Perplexity: 1.2062

Epoch [25/51], Step [10/112], Loss: 0.1626, Perplexity: 1.1765

Epoch [25/51], Step [20/112], Loss: 0.1461, Perplexity: 1.1573

Epoch [25/51], Step [30/112], Loss: 0.1329, Perplexity: 1.1422

Epoch [25/51], Step [40/112], Loss: 0.2162, Perplexity: 1.2414

Epoch [25/51], Step [50/112], Loss: 0.2088, Perplexity: 1.2322

Epoch [25/51], Step [60/112], Loss: 0.1873, Perplexity: 1.2060

Epoch [25/51], Step [70/112], Loss: 0.1039, Perplexity: 1.1095

Epoch [25/51], Step [80/112], Loss: 0.1554, Perplexity: 1.1681

Epoch [25/51], Step [90/112], Loss: 0.1249, Perplexity: 1.1330

Epoch [25/51], Step [100/112], Loss: 0.1633, Perplexity: 1.1774

Epoch [25/51], Step [110/112], Loss: 0.1530, Perplexity: 1.1653

epoch average loss: 0.1551

Epoch [26/51], Step [0/112], Loss: 0.1560, Perplexity: 1.1688

Epoch [26/51], Step [10/112], Loss: 0.1490, Perplexity: 1.1607

Epoch [26/51], Step [20/112], Loss: 0.1387, Perplexity: 1.1488

Epoch [26/51], Step [30/112], Loss: 0.1799, Perplexity: 1.1971

Epoch [26/51], Step [40/112], Loss: 0.1888, Perplexity: 1.2078

Epoch [26/51], Step [50/112], Loss: 0.2256, Perplexity: 1.2531

Epoch [26/51], Step [60/112], Loss: 0.1352, Perplexity: 1.1448

Epoch [26/51], Step [70/112], Loss: 0.1454, Perplexity: 1.1565

Epoch [26/51], Step [80/112], Loss: 0.1888, Perplexity: 1.2078

Epoch [26/51], Step [90/112], Loss: 0.1013, Perplexity: 1.1066

Epoch [26/51], Step [100/112], Loss: 0.1528, Perplexity: 1.1651

Epoch [26/51], Step [110/112], Loss: 0.2051, Perplexity: 1.2277

epoch average loss: 0.1525

Epoch [27/51], Step [0/112], Loss: 0.1145, Perplexity: 1.1213

Epoch [27/51], Step [10/112], Loss: 0.1507, Perplexity: 1.1626

Epoch [27/51], Step [20/112], Loss: 0.1455, Perplexity: 1.1566

Epoch [27/51], Step [30/112], Loss: 0.1481, Perplexity: 1.1597

Epoch [27/51], Step [40/112], Loss: 0.1601, Perplexity: 1.1736

Epoch [27/51], Step [50/112], Loss: 0.1458, Perplexity: 1.1570

Epoch [27/51], Step [60/112], Loss: 0.1754, Perplexity: 1.1917

Epoch [27/51], Step [70/112], Loss: 0.1606, Perplexity: 1.1742

Epoch [27/51], Step [80/112], Loss: 0.1576, Perplexity: 1.1707

Epoch [27/51], Step [90/112], Loss: 0.1676, Perplexity: 1.1824

Epoch [27/51], Step [100/112], Loss: 0.1283, Perplexity: 1.1369

Epoch [27/51], Step [110/112], Loss: 0.1566, Perplexity: 1.1696

epoch average loss: 0.1513

Epoch [28/51], Step [0/112], Loss: 0.1704, Perplexity: 1.1858

Epoch [28/51], Step [10/112], Loss: 0.1645, Perplexity: 1.1787

Epoch [28/51], Step [20/112], Loss: 0.1140, Perplexity: 1.1208

Epoch [28/51], Step [30/112], Loss: 0.1270, Perplexity: 1.1354

Epoch [28/51], Step [40/112], Loss: 0.1487, Perplexity: 1.1603

Epoch [28/51], Step [50/112], Loss: 0.1361, Perplexity: 1.1458

Epoch [28/51], Step [60/112], Loss: 0.1366, Perplexity: 1.1463

Epoch [28/51], Step [70/112], Loss: 0.1483, Perplexity: 1.1598

Epoch [28/51], Step [80/112], Loss: 0.1586, Perplexity: 1.1719

Epoch [28/51], Step [90/112], Loss: 0.1217, Perplexity: 1.1294

Epoch [28/51], Step [100/112], Loss: 0.1199, Perplexity: 1.1274

Epoch [28/51], Step [110/112], Loss: 0.1728, Perplexity: 1.1887

epoch average loss: 0.1480

Epoch [29/51], Step [0/112], Loss: 0.1910, Perplexity: 1.2105

Epoch [29/51], Step [10/112], Loss: 0.1499, Perplexity: 1.1618

Epoch [29/51], Step [20/112], Loss: 0.1479, Perplexity: 1.1594

Epoch [29/51], Step [30/112], Loss: 0.1237, Perplexity: 1.1316

Epoch [29/51], Step [40/112], Loss: 0.1333, Perplexity: 1.1426

Epoch [29/51], Step [50/112], Loss: 0.1552, Perplexity: 1.1679

Epoch [29/51], Step [60/112], Loss: 0.1278, Perplexity: 1.1363

Epoch [29/51], Step [70/112], Loss: 0.1375, Perplexity: 1.1474

Epoch [29/51], Step [80/112], Loss: 0.1807, Perplexity: 1.1980

Epoch [29/51], Step [90/112], Loss: 0.1596, Perplexity: 1.1730

Epoch [29/51], Step [100/112], Loss: 0.1126, Perplexity: 1.1192

Epoch [29/51], Step [110/112], Loss: 0.1012, Perplexity: 1.1065

epoch average loss: 0.1495

Epoch [30/51], Step [0/112], Loss: 0.1447, Perplexity: 1.1557

Epoch [30/51], Step [10/112], Loss: 0.1135, Perplexity: 1.1202

Epoch [30/51], Step [20/112], Loss: 0.1756, Perplexity: 1.1919

Epoch [30/51], Step [30/112], Loss: 0.1511, Perplexity: 1.1631

Epoch [30/51], Step [40/112], Loss: 0.1611, Perplexity: 1.1748

Epoch [30/51], Step [50/112], Loss: 0.2095, Perplexity: 1.2331

Epoch [30/51], Step [60/112], Loss: 0.1634, Perplexity: 1.1775

Epoch [30/51], Step [70/112], Loss: 0.1744, Perplexity: 1.1905

Epoch [30/51], Step [80/112], Loss: 0.1505, Perplexity: 1.1624

Epoch [30/51], Step [90/112], Loss: 0.1157, Perplexity: 1.1227

Epoch [30/51], Step [100/112], Loss: 0.1271, Perplexity: 1.1356

Epoch [30/51], Step [110/112], Loss: 0.1477, Perplexity: 1.1592

epoch average loss: 0.1467

Epoch [31/51], Step [0/112], Loss: 0.1189, Perplexity: 1.1262

Epoch [31/51], Step [10/112], Loss: 0.1527, Perplexity: 1.1649

forrtl: error (200): program aborting due to control-C event

Image PC Routine Line Source

libifcoremd.dll 00007FFC7D1D94C4 Unknown Unknown Unknown

KERNELBASE.dll 00007FFCBF435FD3 Unknown Unknown Unknown

KERNEL32.DLL 00007FFCBFAB7BD4 Unknown Unknown Unknown

ntdll.dll 00007FFCC192CED1 Unknown Unknown Unknown

E:\Code\python\multi-label\Multiple-instance-learning-master\CNN\_RNN>