



Finetune the pre-trained model

Performance of pre-trained model without finetuning

Training complete in 0m 0s

Best val Acc: 0.405229

Finetune the model

Epoch 0/24

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train Loss: 0.5913 Acc: 0.6885

val Loss: 0.2418 Acc: 0.9085

Epoch 1/24

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train Loss: 0.4562 Acc: 0.7951

val Loss: 0.1591 Acc: 0.9412

Epoch 2/24

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train Loss: 0.8384 Acc: 0.7336

val Loss: 0.2075 Acc: 0.9020

Epoch 3/24

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train Loss: 0.3808 Acc: 0.8361

val Loss: 0.2579 Acc: 0.8889

Epoch 4/24

----------

train Loss: 0.4870 Acc: 0.7869

val Loss: 0.2728 Acc: 0.9150

Epoch 5/24

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train Loss: 0.5038 Acc: 0.8156

val Loss: 0.2491 Acc: 0.9281

Epoch 6/24

----------

train Loss: 0.4664 Acc: 0.8320

val Loss: 0.3679 Acc: 0.8758

Epoch 7/24

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train Loss: 0.4259 Acc: 0.8607

val Loss: 0.3329 Acc: 0.8758

Epoch 8/24

----------

train Loss: 0.3349 Acc: 0.8566

val Loss: 0.2909 Acc: 0.8954

Epoch 9/24

----------

train Loss: 0.2851 Acc: 0.8689

val Loss: 0.2467 Acc: 0.9085

Epoch 10/24

----------

train Loss: 0.3483 Acc: 0.8402

val Loss: 0.2218 Acc: 0.9216

Epoch 11/24

----------

train Loss: 0.2545 Acc: 0.9057

val Loss: 0.2136 Acc: 0.9346

Epoch 12/24

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train Loss: 0.2279 Acc: 0.9180

val Loss: 0.1970 Acc: 0.9346

Epoch 13/24

----------

train Loss: 0.2720 Acc: 0.8811

val Loss: 0.2336 Acc: 0.9085

Epoch 14/24

----------

train Loss: 0.2650 Acc: 0.8975

val Loss: 0.2013 Acc: 0.9216

Epoch 15/24

----------

train Loss: 0.2553 Acc: 0.8934

val Loss: 0.2269 Acc: 0.9150

Epoch 16/24

----------

train Loss: 0.2972 Acc: 0.8811

val Loss: 0.2410 Acc: 0.9020

Epoch 17/24

----------

train Loss: 0.2587 Acc: 0.8770

val Loss: 0.2285 Acc: 0.9150

Epoch 18/24

----------

train Loss: 0.2726 Acc: 0.8852

val Loss: 0.2282 Acc: 0.9150

Epoch 19/24

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train Loss: 0.2132 Acc: 0.9221

val Loss: 0.2292 Acc: 0.9150

Epoch 20/24

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train Loss: 0.2293 Acc: 0.9057

val Loss: 0.2142 Acc: 0.9085

Epoch 21/24

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train Loss: 0.2425 Acc: 0.9180

val Loss: 0.2533 Acc: 0.8954

Epoch 22/24

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train Loss: 0.1928 Acc: 0.9262

val Loss: 0.2353 Acc: 0.9085

Epoch 23/24

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train Loss: 0.3141 Acc: 0.8566

val Loss: 0.2322 Acc: 0.9216

Epoch 24/24

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train Loss: 0.1899 Acc: 0.9139

val Loss: 0.2317 Acc: 0.9281

Training complete in 0m 46s

Best val Acc: 0.941176

Freeze the parameters in pre-trained model and train the final fc layer

Performance of pre-trained model without finetuning

Training complete in 0m 0s

Best val Acc: 0.555556

Finetune the model

Epoch 0/24

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train Loss: 0.6349 Acc: 0.6762

val Loss: 0.2144 Acc: 0.9346

Epoch 1/24

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train Loss: 0.6218 Acc: 0.7418

val Loss: 0.3315 Acc: 0.8693

Epoch 2/24

----------

train Loss: 0.5161 Acc: 0.7664

val Loss: 0.2504 Acc: 0.8889

Epoch 3/24

----------

train Loss: 0.5080 Acc: 0.7951

val Loss: 0.2928 Acc: 0.9085

Epoch 4/24

----------

train Loss: 0.6195 Acc: 0.7500

val Loss: 0.5314 Acc: 0.8497

Epoch 5/24

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train Loss: 0.4935 Acc: 0.7951

val Loss: 0.5952 Acc: 0.7908

Epoch 6/24

----------

train Loss: 0.7647 Acc: 0.7500

val Loss: 0.7065 Acc: 0.8170

Epoch 7/24

----------

train Loss: 0.4617 Acc: 0.8566

val Loss: 0.3158 Acc: 0.8954

Epoch 8/24

----------

train Loss: 0.3999 Acc: 0.8566

val Loss: 0.3843 Acc: 0.9020

Epoch 9/24

----------

train Loss: 0.3118 Acc: 0.8689

val Loss: 0.3183 Acc: 0.9085

Epoch 10/24

----------

train Loss: 0.3128 Acc: 0.8770

val Loss: 0.2738 Acc: 0.9346

Epoch 11/24

----------

train Loss: 0.3699 Acc: 0.8443

val Loss: 0.2438 Acc: 0.9150

Epoch 12/24

----------

train Loss: 0.3508 Acc: 0.8566

val Loss: 0.2388 Acc: 0.9281

Epoch 13/24

----------

train Loss: 0.3644 Acc: 0.8607

val Loss: 0.2542 Acc: 0.9346

Epoch 14/24

----------

train Loss: 0.2979 Acc: 0.8852

val Loss: 0.2936 Acc: 0.9150

Epoch 15/24

----------

train Loss: 0.3441 Acc: 0.8689

val Loss: 0.2439 Acc: 0.9281

Epoch 16/24

----------

train Loss: 0.3270 Acc: 0.8525

val Loss: 0.2568 Acc: 0.9412

Epoch 17/24

----------

train Loss: 0.2839 Acc: 0.8525

val Loss: 0.2425 Acc: 0.9477

Epoch 18/24

----------

train Loss: 0.2688 Acc: 0.8689

val Loss: 0.2679 Acc: 0.9216

Epoch 19/24

----------

train Loss: 0.3107 Acc: 0.8934

val Loss: 0.2419 Acc: 0.9281

Epoch 20/24

----------

train Loss: 0.2624 Acc: 0.8893

val Loss: 0.2526 Acc: 0.9216

Epoch 21/24

----------

train Loss: 0.2989 Acc: 0.8689

val Loss: 0.2181 Acc: 0.9281

Epoch 22/24

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train Loss: 0.2714 Acc: 0.8730

val Loss: 0.2305 Acc: 0.9412

Epoch 23/24

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train Loss: 0.2609 Acc: 0.8770

val Loss: 0.2742 Acc: 0.9085

Epoch 24/24

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train Loss: 0.2821 Acc: 0.8811

val Loss: 0.2189 Acc: 0.9346

Training complete in 0m 46s

Best val Acc: 0.947712