

Hyperparameters

Type	Hyperparameters	Values
Model	Layers	6
	Hidden size	768
	FFN inner hidden size	3072
	Attention Heads	12
	Patch size	16×16
	Input resolution	224×224
Training	Epochs	10
	Total steps	50040
	Batch size	256
	Optimizer	AdamW
	AdamW ε	$1e-06$
	AdamW β	(0.9, 0.98)
	Weight decay	0.01
	Base learning rate	$1e-4$
	Learning rate schedule	Cosine
	Warmup steps	5004 (10% of total steps)
	Hardware	$1 \times$ RTX 4090 24GB
Augmentations	Horizontal flipping prob.	0.5
	RandomResizeCrop range	[0.08, 1.0]

Table 1: Hyperparameters used for distilling a Data2Vec2 image model.

Type	Hyperparameters	ImageNet		CIFAR10		CIFAR100	
		Finetune	Lin. probing	Finetune	Lin. probing	Finetune	Lin. probing
Training	Epochs	15					
	Batch size	256					
	Optimizer	AdamW					
	AdamW ϵ	1e-8					
	AdamW β	(0.9, 0.999)					
	Weight decay	0.01					
	Base learning rate	1e-3					
	Layer Decay	0.81					
	Learning rate schedule	Cosine					
	Warmup steps	10% of total steps					
	Hardware	1 \times RTX 4090 24GB					
Mixup [1]/Cutmix [2]	Mixup prob.	0.8					
	Cutmix prob.	1.0					
	Prob.	0.9					
	Switch prob.	0.5					
	Label smooting	0.1					
RandAugment [3]	Magintude	9					
	Magnitude std.	0.5					
	Magnitude inc.	1					
	# ops	2					
RandomErase [4]	Prob.	0.25					
	Mode	pixel					
	# erase	1					

Table 2: Hyperparameters used for the ImageNet-1K [5], CIFAR10 [6], and CIFAR100 [6] of the distilled Data2Vec2 image model. We refer to the respective papers for details on the augmentation techniques [1]–[4].

Bibliography

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