

## Hyperparameters

Type	Hyperparameters	ImageNet	CIFAR10	CIFAR100
<b>Training</b>	Epochs		15	
	Batch size		256	
	AdamW $\epsilon$		1e-8	
	AdamW $\beta$		(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
<b>Mixup [1]/Cutmix [2]</b>	Mixup prob.		0.8	
	Cutmix prob.		1.0	
	Prob.		0.9	
	Switch prob.		0.5	
	Label smooting		0.1	
<b>RandAugment [3]</b>	Magintude		9	
	Magnitude std.		0.5	
	Magnitude inc.		1	
	# ops		2	
<b>RandomErase [4]</b>	Prob.		0.25	
	Mode		pixel	
	# erase		1	

Table 1: Hyperparameters used for the ImageNet-1K [5], CIFAR10 [6], and CIFAR100 [6] finetuning of the distilled Data2Vec image model. We refer to the respective papers for details on the augmentation techniques [1]–[4].

## Bibliography

- [1] H. Zhang, M. Cissé, Y. N. Dauphin, and D. Lopez-Paz, “mixup: Beyond Empirical Risk Minimization,” in *6th International Conference on Learning Representations, ICLR 2018, Vancouver, BC, Canada, April 30 - May 3, 2018, Conference Track Proceedings*, OpenReview.net, 2018. [Online]. Available: <https://openreview.net/forum?id=r1Ddp1-Rb>
- [2] S. Yun, D. Han, S. Chun, S. Oh, Y. Yoo, and J. Choe, “CutMix: Regularization Strategy to Train Strong Classifiers With Localizable Features,” in *2019 IEEE/CVF International Conference on Computer Vision (ICCV)*, Los Alamitos, CA, USA: IEEE Computer Society, Nov. 2019, pp. 6022–6031. doi: 10.1109/ICCV.2019.00612.
- [3] E. D. Cubuk, B. Zoph, J. Shlens, and Q. V. Le, “Randaugment: Practical automated data augmentation with a reduced search space,” in *2020 IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops (CVPRW)*, 2020, pp. 3008–3017. doi: 10.1109/CVPRW50498.2020.00359.

- [4] Z. Zhong, L. Zheng, G. Kang, S. Li, and Y. Yang, "Random Erasing Data Augmentation," *Proceedings of the AAAI Conference on Artificial Intelligence*, vol. 34, no. 7, pp. 13001–13008, Apr. 2020, doi: 10.1609/aaai.v34i07.7000.
- [5] O. Russakovsky *et al.*, "ImageNet Large Scale Visual Recognition Challenge," *International Journal of Computer Vision (IJCV)*, vol. 115, no. 3, pp. 211–252, 2015, doi: 10.1007/s11263-015-0816-y.
- [6] A. Krizhevsky, "Learning multiple layers of features from tiny images," 2009.