

Raport CARN-tema2

#nr	Acuratete	Link
1.	0.60640	https://www.kaggle.com/code/andreimurgulet/config-3
2.	0.76600	https://www.kaggle.com/code/andreimurgulet/config-2
3.	0.76930	https://www.kaggle.com/code/andreimurgulet/config-1
4.	0.79420	https://www.kaggle.com/code/andreimurgulet/carn-tema2

Augumentari & Optimizatori

1. 100_epochs	<ul style="list-style-type: none"> • RandomHorizontalFlip, • ColorJitter(0.4, 0.4, 0.4, 0.1) • RandomCrop(32, padding=4) • RandomErasing(p=0.2, scale=(0.02, 0.15)) • Cutmix si mixup 	<ul style="list-style-type: none"> • SGD(Lr= 0.01, momentum 0.9, weigh_decay = 3e-4) • CosineAnnealingLR pentru scheduler
2. 150_epochs	<ul style="list-style-type: none"> • TrivialAugmentWide • RandomAffine(degrees=0, translate=(0.1, 0.1)scale=(0.9, 1.1)) • RandomCrop(32, padding=4) • Cutmix si mixup 	<ul style="list-style-type: none"> • ADAMW(Lr=3e-4,weigh_decay = 1e-4) • CosineAnnealingLR pentru scheduler
3. 150_epochs	<ul style="list-style-type: none"> • RandAugment(num_ops=2, magnitud e=9) • RandomCrop(32, padding=4) • RandomHorizontalFlip() • Cutmix si mixup 	<ul style="list-style-type: none"> • SGD(Lr= 0.005, momentum 0.9, weigh_decay = 3e-4) • CosineAnnealingLR pentru scheduler
4. 185_epochs (version 88)	<ul style="list-style-type: none"> • RandomCrop(32, padding=4) • RandomHorizontalFlip() • Cutmix si mixup 	<ul style="list-style-type: none"> • SGD(Lr= 0.005, momentum 0.9, weigh_decay = 3e-4) • CosineAnnealingLR pentru scheduler

Alte mentiuni

- Toate modelele folosesc CrossEntropyLoss cu label_smoothing setat la 0.1
- Toate modelele folosesc TTA
- Modelele 1 si 2 nu folosesc split pentru validare
- Normalizarea datelor a fost obtinuta cu deviatia standard si media datelor de pe train

Observatii

O augmentare mult prea agresiva (precum in 1.) duce la un rezultat instabil si de proasta calitate.

SGD a fost cel mai bun optimizator daca se alegea un learning rate mic si momentum mare, dar necesita un numar mai mare de epoci.