

Starting PBT ViT Experiment with Timing...
Note: This will train ViT-Small models on CIFAR-10
Each member may have different batch sizes

Google Drive not mounted. Mounting now...

Mounted at /content/drive

Using device: cuda

Google Drive already mounted.

/tmp/ipython-input-123503625.py:51: FutureWarning: `torch.cuda.amp.GradScaler(args...)` is deprecated. Please use `torch

scaler = torch.cuda.amp.GradScaler(enabled=torch.cuda.is_available())

Starting PBT Training for ViT-Small...

Population size: 5

Total epochs: 70

Exploit interval: 5 epochs

Checkpoints will be saved to: /content/drive/MyDrive/Colab_Checkpoints

=====
Epoch 1/70
=====

--- Training Member 0 (Batch size: 256) ---

█ 0%| | 0.00/170M [00:00<?, ?B/s]█ 0%| | 65.5k/170M [00:00<04:24, 643kB/s]█ 0%| | 229k/170M [00:00<04:24, 643kB/s]

built data in 7.242753505706787 seconds

/tmp/ipython-input-158776463.py:694: FutureWarning: `torch.cuda.amp.autocast(args...)` is deprecated. Please use `torch.a

with torch.cuda.amp.autocast(enabled=torch.cuda.is_available()):

LR changed during epoch: 1.93e-07 -> 3.81e-05

total runtime to train this model was 25.36372184753418 seconds

Hyperparameteres for model 0 at epoch 1

lr: 0.0001894099367645819

weight_decay: 0.2929517642793557

drop_path: 0.30758866767960447

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.166985034942627 seconds

Loss: 2.0628

Train Accuracy: 22.78%

Test Accuracy: 30.97%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.5984299182891846 seconds

LR changed during epoch: 2.66e-07 -> 5.25e-05

total runtime to train this model was 24.825141429901123 seconds

Hyperparameteres for model 1 at epoch 1

lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.0643370151519775 seconds

Loss: 2.0400

Train Accuracy: 23.80%

Test Accuracy: 31.20%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.541123628616333 seconds

LR changed during epoch: 4.75e-07 -> 9.36e-05

total runtime to train this model was 25.769479751586914 seconds

Hyperparameteres for model 2 at epoch 1

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3147547245025635 seconds

Loss: 2.0106

Train Accuracy: 25.24%

Test Accuracy: 31.66%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.7199785709381104 seconds

LR changed during epoch: 3.22e-07 -> 6.34e-05

total runtime to train this model was 25.652008533477783 seconds

Hyperparameteres for model 3 at epoch 1

lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.868828296661377 seconds

Loss: 2.0363

Train Accuracy: 23.82%

Test Accuracy: 29.31%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.585087776184082 seconds

LR changed during epoch: 3.64e-07 -> 7.17e-05

total runtime to train this model was 26.570323944091797 seconds

Hyperparameteres for model 4 at epoch 1

lr: 0.0003565125943597626

weight_decay: 0.4336340708432141

drop_path: 0.25432892395471046

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.7362070083618164 seconds

Loss: 2.0207

Train Accuracy: 24.57%

Test Accuracy: 30.69%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 1 Summary:
=====

Time: 173.62s (Avg member: 34.72s)

Population Mean Accuracy: 30.77%

Best Member Accuracy: 31.66%

Mean Batch Size: 256

Mean Learning Rate: 3.18e-04

Mean Weight Decay: 0.317

=====

Epoch 2/70
=====

--- Training Member 0 (Batch size: 256) ---

built data in 1.6759214401245117 seconds

LR changed during epoch: 3.81e-05 -> 7.60e-05

total runtime to train this model was 25.936567068099976 seconds

Hyperparameteres for model 0 at epoch 2

lr: 0.0001894099367645819

weight_decay: 0.2929517642793557

drop_path: 0.30758866767960447

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.0439140796661377 seconds

Loss: 1.8502

Train Accuracy: 31.74%

Test Accuracy: 33.81%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.7143490314483643 seconds

LR changed during epoch: 5.25e-05 -> 1.05e-04

total runtime to train this model was 26.27248787879944 seconds

Hyperparameteres for model 1 at epoch 2

lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.819484233856201 seconds

Loss: 1.8282

Train Accuracy: 31.85%

Test Accuracy: 35.32%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.601736307144165 seconds

LR changed during epoch: 9.36e-05 -> 1.87e-04

total runtime to train this model was 26.230271816253662 seconds

Hyperparameteres for model 2 at epoch 2

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2516586780548096 seconds

Loss: 1.7839

Train Accuracy: 33.61%

Test Accuracy: 33.85%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.5920865535736084 seconds

LR changed during epoch: 6.34e-05 -> 1.27e-04

total runtime to train this model was 26.06878972053528 seconds

Hyperparameteres for model 3 at epoch 2

lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.286827564239502 seconds

Loss: 1.8146

Train Accuracy: 32.42%

Test Accuracy: 35.16%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.5985796451568604 seconds

LR changed during epoch: 7.17e-05 -> 1.43e-04

total runtime to train this model was 25.8381609916687 seconds

Hyperparameteres for model 4 at epoch 2
lr: 0.0003565125943597626

weight_decay: 0.4336340708432141

drop_path: 0.25432892395471046

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.3024559020996094 seconds

Loss: 1.7982

Train Accuracy: 33.10%

Test Accuracy: 36.44%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 2 Summary:

=====
Time: 152.40s (Avg member: 30.48s)

Population Mean Accuracy: 34.92%

Best Member Accuracy: 36.44%

Mean Batch Size: 256

Mean Learning Rate: 3.18e-04

Mean Weight Decay: 0.317

=====
Epoch 3/70

--- Training Member 0 (Batch size: 256) ---

built data in 1.5978918075561523 seconds

LR changed during epoch: 7.60e-05 -> 1.14e-04

total runtime to train this model was 25.503695011138916 seconds

Hyperparameteres for model 0 at epoch 3

lr: 0.0001894099367645819

weight_decay: 0.2929517642793557

drop_path: 0.30758866767960447

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2233541011810303 seconds

Loss: 1.7476

Train Accuracy: 35.22%

Test Accuracy: 36.24%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.699404239654541 seconds

LR changed during epoch: 1.05e-04 -> 1.57e-04

total runtime to train this model was 24.811631202697754 seconds

Hyperparameteres for model 1 at epoch 3

lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.8362815380096436 seconds

Loss: 1.7242

Train Accuracy: 35.94%

Test Accuracy: 39.24%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.7234492301940918 seconds

LR changed during epoch: 1.87e-04 -> 2.80e-04

total runtime to train this model was 24.038562774658203 seconds

Hyperparameteres for model 2 at epoch 3

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.36803936958313 seconds

Loss: 1.6633

Train Accuracy: 38.51%

Test Accuracy: 40.35%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.578310489654541 seconds

LR changed during epoch: 1.27e-04 -> 1.90e-04

total runtime to train this model was 24.316356897354126 seconds

Hyperparameteres for model 3 at epoch 3

lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.78167462348938 seconds

Loss: 1.6950

Train Accuracy: 37.16%

Test Accuracy: 40.98%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.5775082111358643 seconds
LR changed during epoch: 1.43e-04 -> 2.14e-04
total runtime to train this model was 25.170960903167725 seconds
Hyperparameteres for model 4 at epoch 3
lr: 0.0003565125943597626

weight_decay: 0.4336340708432141

drop_path: 0.25432892395471046

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.300874710083008 seconds

Loss: 1.6914

Train Accuracy: 37.00%

Test Accuracy: 39.69%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

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Epoch 3 Summary:
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Time: 146.79s (Avg member: 29.36s)

Population Mean Accuracy: 39.30%

Best Member Accuracy: 40.98%

Mean Batch Size: 256

Mean Learning Rate: 3.18e-04

Mean Weight Decay: 0.317
=====

Epoch 4/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.5914392471313477 seconds
LR changed during epoch: 1.14e-04 -> 1.52e-04
total runtime to train this model was 25.073079586029053 seconds
Hyperparameteres for model 0 at epoch 4
lr: 0.0001894099367645819

weight_decay: 0.2929517642793557

drop_path: 0.30758866767960447

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2448108196258545 seconds

Loss: 1.6573

Train Accuracy: 38.77%

Test Accuracy: 40.28%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.581028938293457 seconds
LR changed during epoch: 1.57e-04 -> 2.09e-04
total runtime to train this model was 24.912885904312134 seconds
Hyperparameteres for model 1 at epoch 4
lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.201359510421753 seconds

Loss: 1.6292

Train Accuracy: 40.02%

Test Accuracy: 42.71%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.5854201316833496 seconds

LR changed during epoch: 2.80e-04 -> 3.73e-04

total runtime to train this model was 25.261857271194458 seconds

Hyperparameteres for model 2 at epoch 4

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2140069007873535 seconds

Loss: 1.5588

Train Accuracy: 42.81%

Test Accuracy: 46.64%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.58115816116333 seconds

LR changed during epoch: 1.90e-04 -> 2.53e-04

total runtime to train this model was 25.673259258270264 seconds

Hyperparameteres for model 3 at epoch 4

lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.27079176902771 seconds

Loss: 1.5848
Train Accuracy: 41.49%
Test Accuracy: 44.39%
Google Drive already mounted.
Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.6006391048431396 seconds
LR changed during epoch: 2.14e-04 -> 2.86e-04
total runtime to train this model was 25.35696005821228 seconds
Hyperparameteres for model 4 at epoch 4
lr: 0.0003565125943597626

weight_decay: 0.4336340708432141

drop_path: 0.25432892395471046

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2951228618621826 seconds

Loss: 1.5892
Train Accuracy: 41.58%
Test Accuracy: 44.06%
Google Drive already mounted.
Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

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Epoch 4 Summary:
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Time: 146.65s (Avg member: 29.33s)
Population Mean Accuracy: 43.62%
Best Member Accuracy: 46.64%
Mean Batch Size: 256
Mean Learning Rate: 3.18e-04
Mean Weight Decay: 0.317

=====
Epoch 5/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.7346649169921875 seconds
LR changed during epoch: 1.52e-04 -> 1.89e-04
total runtime to train this model was 24.576084852218628 seconds
Hyperparameteres for model 0 at epoch 5
lr: 0.0001894099367645819

weight_decay: 0.2929517642793557

drop_path: 0.30758866767960447

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.937455177307129 seconds

Loss: 1.5708
Train Accuracy: 42.39%

Test Accuracy: 46.36%
Google Drive already mounted.
Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6843218803405762 seconds
LR changed during epoch: 2.09e-04 -> 2.61e-04
total runtime to train this model was 24.209485292434692 seconds
Hyperparameteres for model 1 at epoch 5
lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.0987954139709473 seconds
Loss: 1.5315
Train Accuracy: 44.28%
Test Accuracy: 47.10%

Google Drive already mounted.
Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.5689778327941895 seconds
LR changed during epoch: 3.73e-04 -> 4.66e-04
total runtime to train this model was 25.22209119796753 seconds
Hyperparameteres for model 2 at epoch 5
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2859597206115723 seconds
Loss: 1.4834
Train Accuracy: 45.72%
Test Accuracy: 48.20%

Google Drive already mounted.
Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.5726730823516846 seconds
LR changed during epoch: 2.53e-04 -> 3.16e-04
total runtime to train this model was 24.882221460342407 seconds
Hyperparameteres for model 3 at epoch 5
lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.198965549468994 seconds

Loss: 1.4976

Train Accuracy: 45.48%

Test Accuracy: 47.55%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.5688717365264893 seconds

LR changed during epoch: 2.86e-04 -> 3.57e-04

total runtime to train this model was 25.069647550582886 seconds

Hyperparameteres for model 4 at epoch 5

lr: 0.0003565125943597626

weight_decay: 0.4336340708432141

drop_path: 0.25432892395471046

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.194180965423584 seconds

Loss: 1.5027

Train Accuracy: 44.86%

Test Accuracy: 46.84%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

--- Population Update (Epoch 5) ---

=== PBT Exploit & Explore ===

Top performers: [48.2]

Bottom performers: [46.36]

Member 0: lr changed from 0.0001894099367645819 to 0.0002502213586795585

Member 0: weight_decay changed from 0.2929517642793557 to 0.2354276243690006

Member 0: drop_path changed from 0.30758866767960447 to 0.32647451212245726

Member 0 copied from 2

LR=2.50e-04, WD=0.235, DropPath=0.326, Warmup=5 epochs, Batch=256

=====
Epoch 5 Summary:

=====
Time: 145.98s (Avg member: 29.19s)

Population Mean Accuracy: 47.21%

Best Member Accuracy: 48.20%

Mean Batch Size: 256

Mean Learning Rate: 3.30e-04

Mean Weight Decay: 0.305
=====

Epoch 6/70
=====

--- Training Member 0 (Batch size: 256) ---

built data in 1.5735464096069336 seconds

LR changed during epoch: 2.55e-07 -> 5.03e-05

total runtime to train this model was 24.995186805725098 seconds

Hyperparameteres for model 0 at epoch 6

lr: 0.0002502213586795585

weight_decay: 0.2354276243690006

drop_path: 0.32647451212245726

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3040547370910645 seconds

Loss: 1.3732

Train Accuracy: 50.37%

Test Accuracy: 51.95%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.5737860202789307 seconds

LR changed during epoch: 2.61e-04 -> 2.61e-04

total runtime to train this model was 25.430089235305786 seconds

Hyperparameteres for model 1 at epoch 6

lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.215258836746216 seconds

Loss: 1.4612

Train Accuracy: 46.93%

Test Accuracy: 50.26%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.6239550113677979 seconds

LR changed during epoch: 4.66e-04 -> 4.66e-04

total runtime to train this model was 25.298576593399048 seconds

Hyperparameteres for model 2 at epoch 6

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3429644107818604 seconds

Loss: 1.4218

Train Accuracy: 48.33%

Test Accuracy: 50.77%
Google Drive already mounted.
Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.7423515319824219 seconds
LR changed during epoch: 3.16e-04 -> 3.15e-04
total runtime to train this model was 24.912054300308228 seconds
Hyperparameteres for model 3 at epoch 6
lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.191319465637207 seconds

Loss: 1.4338

Train Accuracy: 47.88%

Test Accuracy: 50.50%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.668445348739624 seconds
LR changed during epoch: 3.57e-04 -> 3.56e-04
total runtime to train this model was 25.141125202178955 seconds
Hyperparameteres for model 4 at epoch 6
lr: 0.0003565125943597626

weight_decay: 0.4336340708432141

drop_path: 0.25432892395471046

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.759995222091675 seconds

Loss: 1.4421

Train Accuracy: 47.58%

Test Accuracy: 49.83%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 6 Summary:

=====
Time: 148.04s (Avg member: 29.61s)

Population Mean Accuracy: 50.66%

Best Member Accuracy: 51.95%

Mean Batch Size: 256

Mean Learning Rate: 3.30e-04

Mean Weight Decay: 0.305

=====
Epoch 7/70

=====
--- Training Member 0 (Batch size: 256) ---
built data in 1.57710862159729 seconds
LR changed during epoch: 5.03e-05 -> 1.00e-04
total runtime to train this model was 25.782474279403687 seconds
Hyperparameteres for model 0 at epoch 7
lr: 0.0002502213586795585

weight_decay: 0.2354276243690006

drop_path: 0.32647451212245726

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2759342193603516 seconds

Loss: 1.3209

Train Accuracy: 52.01%

Test Accuracy: 51.30%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6167969703674316 seconds
LR changed during epoch: 2.61e-04 -> 2.60e-04
total runtime to train this model was 25.538357257843018 seconds
Hyperparameteres for model 1 at epoch 7
lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2167913913726807 seconds

Loss: 1.3983

Train Accuracy: 49.14%

Test Accuracy: 51.01%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.577817678451538 seconds
LR changed during epoch: 4.66e-04 -> 4.65e-04
total runtime to train this model was 25.23979163169861 seconds
Hyperparameteres for model 2 at epoch 7
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.196589708328247 seconds

Loss: 1.3734

Train Accuracy: 50.25%

Test Accuracy: 52.44%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.5830557346343994 seconds

LR changed during epoch: 3.15e-04 -> 3.15e-04

total runtime to train this model was 25.139973163604736 seconds

Hyperparameteres for model 3 at epoch 7

lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.213634729385376 seconds

Loss: 1.3712

Train Accuracy: 50.43%

Test Accuracy: 50.83%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.5704460144042969 seconds

LR changed during epoch: 3.56e-04 -> 3.56e-04

total runtime to train this model was 25.588647603988647 seconds

Hyperparameteres for model 4 at epoch 7

lr: 0.0003565125943597626

weight_decay: 0.4336340708432141

drop_path: 0.25432892395471046

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.1916513442993164 seconds

Loss: 1.3828

Train Accuracy: 49.75%

Test Accuracy: 50.63%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 7 Summary:

=====
Time: 147.45s (Avg member: 29.49s)

Population Mean Accuracy: 51.24%

Best Member Accuracy: 52.44%

Mean Batch Size: 256

Mean Learning Rate: 3.30e-04
Mean Weight Decay: 0.305

=====
Epoch 8/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.7108509540557861 seconds
LR changed during epoch: 1.00e-04 -> 1.50e-04
total runtime to train this model was 24.79181456565857 seconds
Hyperparameteres for model 0 at epoch 8
lr: 0.0002502213586795585

weight_decay: 0.2354276243690006

drop_path: 0.32647451212245726

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.6509666442871094 seconds
Loss: 1.3089

Train Accuracy: 52.58%

Test Accuracy: 53.10%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.7555298805236816 seconds
LR changed during epoch: 2.60e-04 -> 2.60e-04
total runtime to train this model was 24.592437982559204 seconds
Hyperparameteres for model 1 at epoch 8
lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.2898929119110107 seconds
Loss: 1.3537

Train Accuracy: 50.90%

Test Accuracy: 52.93%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.584458351135254 seconds
LR changed during epoch: 4.65e-04 -> 4.63e-04
total runtime to train this model was 25.34279465675354 seconds
Hyperparameteres for model 2 at epoch 8
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.240734100341797 seconds

Loss: 1.3186

Train Accuracy: 51.94%

Test Accuracy: 52.79%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.6018939018249512 seconds

LR changed during epoch: 3.15e-04 -> 3.14e-04

total runtime to train this model was 24.769374132156372 seconds

Hyperparameteres for model 3 at epoch 8

lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.1942451000213623 seconds

Loss: 1.3415

Train Accuracy: 51.46%

Test Accuracy: 54.47%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.574110984802246 seconds

LR changed during epoch: 3.56e-04 -> 3.55e-04

total runtime to train this model was 25.00540852546692 seconds

Hyperparameteres for model 4 at epoch 8

lr: 0.0003565125943597626

weight_decay: 0.4336340708432141

drop_path: 0.25432892395471046

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2591609954833984 seconds

Loss: 1.3446

Train Accuracy: 51.40%

Test Accuracy: 52.05%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 8 Summary:

```
=====
Time: 146.55s (Avg member: 29.31s)
Population Mean Accuracy: 53.07%
Best Member Accuracy: 54.47%
Mean Batch Size: 256
Mean Learning Rate: 3.30e-04
Mean Weight Decay: 0.305
=====
```

```
=====
Epoch 9/70
=====
```

```
--- Training Member 0 (Batch size: 256) ---
built data in 1.573241949081421 seconds
LR changed during epoch: 1.50e-04 -> 2.00e-04
total runtime to train this model was 24.844953536987305 seconds
Hyperparameteres for model 0 at epoch 9
lr: 0.0002502213586795585
```

weight_decay: 0.2354276243690006

drop_path: 0.32647451212245726

warmup_epochs: 5

batch_size: 256

```
_____ end of hyperparam printing _____
evaluation in 2.2102127075195312 seconds
Loss: 1.3003
```

Train Accuracy: 52.89%

Test Accuracy: 54.49%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

```
--- Training Member 1 (Batch size: 256) ---
built data in 1.5883259773254395 seconds
LR changed during epoch: 2.60e-04 -> 2.59e-04
total runtime to train this model was 24.672887802124023 seconds
Hyperparameteres for model 1 at epoch 9
lr: 0.0002610457762689696
```

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

```
_____ end of hyperparam printing _____
evaluation in 2.194363832473755 seconds
Loss: 1.3192
```

Train Accuracy: 52.15%

Test Accuracy: 55.32%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

```
--- Training Member 2 (Batch size: 256) ---
built data in 1.6125695705413818 seconds
LR changed during epoch: 4.63e-04 -> 4.61e-04
total runtime to train this model was 24.822039365768433 seconds
```

Hyperparameteres for model 2 at epoch 9
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.186967372894287 seconds

Loss: 1.2831

Train Accuracy: 53.98%

Test Accuracy: 54.83%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.614332675933838 seconds

LR changed during epoch: 3.14e-04 -> 3.13e-04

total runtime to train this model was 24.52148747444153 seconds

Hyperparameteres for model 3 at epoch 9

lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.289050340652466 seconds

Loss: 1.3024

Train Accuracy: 52.90%

Test Accuracy: 53.47%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.6833443641662598 seconds

LR changed during epoch: 3.55e-04 -> 3.53e-04

total runtime to train this model was 24.333030223846436 seconds

Hyperparameteres for model 4 at epoch 9

lr: 0.0003565125943597626

weight_decay: 0.4336340708432141

drop_path: 0.25432892395471046

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.875833749771118 seconds

Loss: 1.3155

Train Accuracy: 52.57%

Test Accuracy: 52.58%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 9 Summary:
=====

Time: 144.31s (Avg member: 28.86s)

Population Mean Accuracy: 54.14%

Best Member Accuracy: 55.32%

Mean Batch Size: 256

Mean Learning Rate: 3.30e-04

Mean Weight Decay: 0.305

=====

Epoch 10/70
=====

--- Training Member 0 (Batch size: 256) ---

built data in 1.6960222721099854 seconds

LR changed during epoch: 2.00e-04 -> 2.50e-04

total runtime to train this model was 24.0449435710907 seconds

Hyperparameteres for model 0 at epoch 10

lr: 0.0002502213586795585

weight_decay: 0.2354276243690006

drop_path: 0.32647451212245726

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.5083162784576416 seconds

Loss: 1.2952

Train Accuracy: 53.22%

Test Accuracy: 53.50%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.5777716636657715 seconds

LR changed during epoch: 2.59e-04 -> 2.57e-04

total runtime to train this model was 24.804471015930176 seconds

Hyperparameteres for model 1 at epoch 10

lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.7468950748443604 seconds

Loss: 1.2912

Train Accuracy: 53.38%

Test Accuracy: 54.95%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6588342189788818 seconds
LR changed during epoch: 4.61e-04 -> 4.59e-04
total runtime to train this model was 25.777259588241577 seconds
Hyperparameteres for model 2 at epoch 10
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.275439739227295 seconds

Loss: 1.2453

Train Accuracy: 54.97%

Test Accuracy: 57.56%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.583972454071045 seconds
LR changed during epoch: 3.13e-04 -> 3.11e-04
total runtime to train this model was 25.446786165237427 seconds
Hyperparameteres for model 3 at epoch 10
lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2249255180358887 seconds

Loss: 1.2659

Train Accuracy: 54.34%

Test Accuracy: 56.62%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.5810978412628174 seconds
LR changed during epoch: 3.53e-04 -> 3.51e-04
total runtime to train this model was 25.4944589138031 seconds
Hyperparameteres for model 4 at epoch 10
lr: 0.0003565125943597626

weight_decay: 0.4336340708432141

drop_path: 0.25432892395471046

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.263249397277832 seconds

Loss: 1.2879

Train Accuracy: 53.42%

Test Accuracy: 55.12%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

--- Population Update (Epoch 10) ---

=== PBT Exploit & Explore ===

Top performers: [57.56]

Bottom performers: [53.5]

Member 0: lr changed from 0.0002502213586795585 to 0.00032852039018270755

Member 0: weight_decay changed from 0.2354276243690006 to 0.28055952036243514

Member 0: drop_path changed from 0.32647451212245726 to 0.27458284474522676

Member 0 copied from 2

LR=3.29e-04, WD=0.281, DropPath=0.275, Warmup=5 epochs, Batch=256

=====
Epoch 10 Summary:

Time: 147.85s (Avg member: 29.57s)

Population Mean Accuracy: 55.55%

Best Member Accuracy: 57.56%

Mean Batch Size: 256

Mean Learning Rate: 3.45e-04

Mean Weight Decay: 0.314
=====

Epoch 11/70
=====

--- Training Member 0 (Batch size: 256) ---

built data in 1.5885558128356934 seconds

LR changed during epoch: 3.35e-07 -> 6.60e-05

total runtime to train this model was 26.07524013519287 seconds

Hyperparameteres for model 0 at epoch 11

lr: 0.00032852039018270755

weight_decay: 0.28055952036243514

drop_path: 0.27458284474522676

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.248558521270752 seconds

Loss: 1.1470

Train Accuracy: 58.75%

Test Accuracy: 59.48%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.7083282470703125 seconds

LR changed during epoch: 2.57e-04 -> 2.56e-04

total runtime to train this model was 25.151814222335815 seconds

Hyperparameteres for model 1 at epoch 11

lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.223106861114502 seconds

Loss: 1.2628

Train Accuracy: 54.34%

Test Accuracy: 56.08%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.6037821769714355 seconds

LR changed during epoch: 4.59e-04 -> 4.56e-04

total runtime to train this model was 25.50357222557068 seconds

Hyperparameteres for model 2 at epoch 11

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.636547803878784 seconds

Loss: 1.2017

Train Accuracy: 56.59%

Test Accuracy: 57.29%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.5826115608215332 seconds

LR changed during epoch: 3.11e-04 -> 3.09e-04

total runtime to train this model was 25.363142013549805 seconds

Hyperparameteres for model 3 at epoch 11

lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.192944049835205 seconds

Loss: 1.2328

Train Accuracy: 55.51%

Test Accuracy: 55.54%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.5675194263458252 seconds
LR changed during epoch: 3.51e-04 -> 3.49e-04
total runtime to train this model was 25.321320295333862 seconds
Hyperparameteres for model 4 at epoch 11
lr: 0.0003565125943597626

weight_decay: 0.4336340708432141

drop_path: 0.25432892395471046

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2108519077301025 seconds

Loss: 1.2582

Train Accuracy: 54.77%

Test Accuracy: 55.07%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 11 Summary:
=====

Time: 149.23s (Avg member: 29.85s)

Population Mean Accuracy: 56.69%

Best Member Accuracy: 59.48%

Mean Batch Size: 256

Mean Learning Rate: 3.45e-04

Mean Weight Decay: 0.314

=====

Epoch 12/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.580472707748413 seconds
LR changed during epoch: 6.60e-05 -> 1.32e-04
total runtime to train this model was 25.61763310432434 seconds
Hyperparameteres for model 0 at epoch 12
lr: 0.00032852039018270755

weight_decay: 0.28055952036243514

drop_path: 0.27458284474522676

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2424793243408203 seconds

Loss: 1.1165

Train Accuracy: 59.96%

Test Accuracy: 60.87%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.594872236251831 seconds
LR changed during epoch: 2.56e-04 -> 2.54e-04
total runtime to train this model was 25.290380477905273 seconds
Hyperparameteres for model 1 at epoch 12
lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2321274280548096 seconds

Loss: 1.2303

Train Accuracy: 55.63%

Test Accuracy: 56.98%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.5970864295959473 seconds

LR changed during epoch: 4.56e-04 -> 4.53e-04

total runtime to train this model was 25.149790287017822 seconds

Hyperparameteres for model 2 at epoch 12

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.184094190597534 seconds

Loss: 1.1731

Train Accuracy: 57.68%

Test Accuracy: 57.87%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.7054564952850342 seconds

LR changed during epoch: 3.09e-04 -> 3.07e-04

total runtime to train this model was 24.312469720840454 seconds

Hyperparameteres for model 3 at epoch 12

lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.7761449813842773 seconds

Loss: 1.2070
Train Accuracy: 56.52%
Test Accuracy: 57.57%
Google Drive already mounted.
Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.735199213027954 seconds
LR changed during epoch: 3.49e-04 -> 3.46e-04
total runtime to train this model was 24.468087911605835 seconds
Hyperparameteres for model 4 at epoch 12
lr: 0.0003565125943597626

weight_decay: 0.4336340708432141

drop_path: 0.25432892395471046

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.2807579040527344 seconds

Loss: 1.2352
Train Accuracy: 55.47%
Test Accuracy: 57.22%
Google Drive already mounted.
Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 12 Summary:
=====

Time: 147.04s (Avg member: 29.41s)
Population Mean Accuracy: 58.10%
Best Member Accuracy: 60.87%
Mean Batch Size: 256
Mean Learning Rate: 3.45e-04
Mean Weight Decay: 0.314

=====
Epoch 13/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.5799272060394287 seconds
LR changed during epoch: 1.32e-04 -> 1.97e-04
total runtime to train this model was 25.188443183898926 seconds
Hyperparameteres for model 0 at epoch 13
lr: 0.00032852039018270755

weight_decay: 0.28055952036243514

drop_path: 0.27458284474522676

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.455650806427002 seconds

Loss: 1.1142
Train Accuracy: 60.21%

Test Accuracy: 60.95%
Google Drive already mounted.
Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.5867934226989746 seconds
LR changed during epoch: 2.54e-04 -> 2.51e-04
total runtime to train this model was 25.20963191986084 seconds
Hyperparameteres for model 1 at epoch 13
lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2605702877044678 seconds
Loss: 1.2084
Train Accuracy: 56.50%
Test Accuracy: 57.28%

Google Drive already mounted.
Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.5873136520385742 seconds
LR changed during epoch: 4.53e-04 -> 4.49e-04
total runtime to train this model was 25.473851919174194 seconds
Hyperparameteres for model 2 at epoch 13
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.203202962875366 seconds
Loss: 1.1244
Train Accuracy: 59.94%
Test Accuracy: 59.57%

Google Drive already mounted.
Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.563704013824463 seconds
LR changed during epoch: 3.07e-04 -> 3.04e-04
total runtime to train this model was 25.09516477584839 seconds
Hyperparameteres for model 3 at epoch 13
lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2664456367492676 seconds
Loss: 1.1807

Train Accuracy: 57.80%

Test Accuracy: 58.01%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.5685524940490723 seconds
LR changed during epoch: 3.46e-04 -> 3.43e-04
total runtime to train this model was 24.971617221832275 seconds
Hyperparameteres for model 4 at epoch 13
lr: 0.0003565125943597626

weight_decay: 0.4336340708432141

drop_path: 0.25432892395471046

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2236835956573486 seconds
Loss: 1.2019

Train Accuracy: 57.25%

Test Accuracy: 57.40%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 13 Summary:

=====
Time: 146.38s (Avg member: 29.28s)
Population Mean Accuracy: 58.64%
Best Member Accuracy: 60.95%
Mean Batch Size: 256
Mean Learning Rate: 3.45e-04
Mean Weight Decay: 0.314

=====
Epoch 14/70

=====
--- Training Member 0 (Batch size: 256) ---
built data in 1.5749948024749756 seconds
LR changed during epoch: 1.97e-04 -> 2.63e-04
total runtime to train this model was 24.996330499649048 seconds
Hyperparameteres for model 0 at epoch 14
lr: 0.00032852039018270755

weight_decay: 0.28055952036243514

drop_path: 0.27458284474522676

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.1926958560943604 seconds

Loss: 1.1179

Train Accuracy: 59.78%

Test Accuracy: 60.34%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.6668879985809326 seconds

LR changed during epoch: 2.51e-04 -> 2.49e-04

total runtime to train this model was 24.53756809234619 seconds

Hyperparameteres for model 1 at epoch 14

lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.249150276184082 seconds

Loss: 1.1842

Train Accuracy: 57.34%

Test Accuracy: 58.59%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.7189908027648926 seconds

LR changed during epoch: 4.49e-04 -> 4.44e-04

total runtime to train this model was 24.195406198501587 seconds

Hyperparameteres for model 2 at epoch 14

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9218344688415527 seconds

Loss: 1.1016

Train Accuracy: 60.71%

Test Accuracy: 61.99%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.7650096416473389 seconds

LR changed during epoch: 3.04e-04 -> 3.01e-04

total runtime to train this model was 24.28995704650879 seconds

Hyperparameteres for model 3 at epoch 14

lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.1699607372283936 seconds

Loss: 1.1567

Train Accuracy: 58.57%

Test Accuracy: 60.66%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.5725207328796387 seconds

LR changed during epoch: 3.43e-04 -> 3.40e-04

total runtime to train this model was 24.849592924118042 seconds

Hyperparameteres for model 4 at epoch 14

lr: 0.0003565125943597626

weight_decay: 0.4336340708432141

drop_path: 0.25432892395471046

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.357710838317871 seconds

Loss: 1.1773

Train Accuracy: 57.85%

Test Accuracy: 58.64%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 14 Summary:

=====
Time: 145.30s (Avg member: 29.06s)

Population Mean Accuracy: 60.04%

Best Member Accuracy: 61.99%

Mean Batch Size: 256

Mean Learning Rate: 3.45e-04

Mean Weight Decay: 0.314
=====

Epoch 15/70
=====

--- Training Member 0 (Batch size: 256) ---

built data in 1.5667121410369873 seconds

LR changed during epoch: 2.63e-04 -> 3.29e-04

total runtime to train this model was 24.74945831298828 seconds

Hyperparameteres for model 0 at epoch 15

lr: 0.00032852039018270755

weight_decay: 0.28055952036243514

drop_path: 0.27458284474522676

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.1963815689086914 seconds

Loss: 1.1158

Train Accuracy: 59.59%

Test Accuracy: 60.39%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.5709288120269775 seconds

LR changed during epoch: 2.49e-04 -> 2.46e-04

total runtime to train this model was 24.742658615112305 seconds

Hyperparameteres for model 1 at epoch 15

lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.132943630218506 seconds

Loss: 1.1598

Train Accuracy: 58.63%

Test Accuracy: 59.78%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.5722146034240723 seconds

LR changed during epoch: 4.44e-04 -> 4.39e-04

total runtime to train this model was 24.891002416610718 seconds

Hyperparameteres for model 2 at epoch 15

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.208211660385132 seconds

Loss: 1.0687

Train Accuracy: 61.78%

Test Accuracy: 63.24%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.587280035018921 seconds

LR changed during epoch: 3.01e-04 -> 2.98e-04
total runtime to train this model was 24.907827138900757 seconds
Hyperparameteres for model 3 at epoch 15
lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.159421682357788 seconds

Loss: 1.1361

Train Accuracy: 59.40%

Test Accuracy: 60.56%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.5681705474853516 seconds

LR changed during epoch: 3.40e-04 -> 3.36e-04

total runtime to train this model was 24.78536057472229 seconds

Hyperparameteres for model 4 at epoch 15

lr: 0.0003565125943597626

weight_decay: 0.4336340708432141

drop_path: 0.25432892395471046

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.230344295501709 seconds

Loss: 1.1476

Train Accuracy: 59.07%

Test Accuracy: 59.58%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

--- Population Update (Epoch 15) ---

=== PBT Exploit & Explore ===

Top performers: [63.24]

Bottom performers: [59.58]

Member 4: lr changed from 0.0003565125943597626 to 0.00048339668238501414

Member 4: weight_decay changed from 0.4336340708432141 to 0.43087995867019463

Member 4: drop_path changed from 0.25432892395471046 to 0.21179266737018654

Member 4 copied from 2

LR=4.83e-04, WD=0.431, DropPath=0.212, Warmup=5 epochs, Batch=256

=====
Epoch 15 Summary:

=====
Time: 144.00s (Avg member: 28.80s)

Population Mean Accuracy: 60.71%

Best Member Accuracy: 63.24%

Mean Batch Size: 256

Mean Learning Rate: 3.71e-04
Mean Weight Decay: 0.314

=====
Epoch 16/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.5714421272277832 seconds
LR changed during epoch: 3.29e-04 -> 3.28e-04
total runtime to train this model was 24.867642402648926 seconds
Hyperparameteres for model 0 at epoch 16
lr: 0.00032852039018270755

weight_decay: 0.28055952036243514

drop_path: 0.27458284474522676

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2759270668029785 seconds
Loss: 1.1017

Train Accuracy: 60.71%

Test Accuracy: 62.21%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.5985698699951172 seconds
LR changed during epoch: 2.46e-04 -> 2.43e-04
total runtime to train this model was 24.563851833343506 seconds
Hyperparameteres for model 1 at epoch 16
lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.182199239730835 seconds
Loss: 1.1399

Train Accuracy: 59.26%

Test Accuracy: 59.51%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.7284538745880127 seconds
LR changed during epoch: 4.39e-04 -> 4.34e-04
total runtime to train this model was 23.845154762268066 seconds
Hyperparameteres for model 2 at epoch 16
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.492849826812744 seconds

Loss: 1.0395

Train Accuracy: 62.81%

Test Accuracy: 63.65%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.722470998764038 seconds

LR changed during epoch: 2.98e-04 -> 2.94e-04

total runtime to train this model was 23.8895263671875 seconds

Hyperparameteres for model 3 at epoch 16

lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.7048416137695312 seconds

Loss: 1.1093

Train Accuracy: 60.30%

Test Accuracy: 60.75%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.7137172222137451 seconds

LR changed during epoch: 4.93e-07 -> 9.72e-05

total runtime to train this model was 23.464799642562866 seconds

Hyperparameteres for model 4 at epoch 16

lr: 0.00048339668238501414

weight_decay: 0.43087995867019463

drop_path: 0.21179266737018654

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.322883129119873 seconds

Loss: 0.9734

Train Accuracy: 65.41%

Test Accuracy: 65.42%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 16 Summary:

```
=====
Time: 143.14s (Avg member: 28.63s)
Population Mean Accuracy: 62.31%
Best Member Accuracy: 65.42%
Mean Batch Size: 256
Mean Learning Rate: 3.71e-04
Mean Weight Decay: 0.314
=====
```

```
=====
Epoch 17/70
=====
```

```
--- Training Member 0 (Batch size: 256) ---
built data in 1.5764594078063965 seconds
LR changed during epoch: 3.28e-04 -> 3.28e-04
total runtime to train this model was 25.06674861907959 seconds
Hyperparameteres for model 0 at epoch 17
lr: 0.00032852039018270755
```

weight_decay: 0.28055952036243514

drop_path: 0.27458284474522676

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.345612049102783 seconds

Loss: 1.0845

Train Accuracy: 61.28%

Test Accuracy: 62.44%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

```
--- Training Member 1 (Batch size: 256) ---
built data in 1.5748839378356934 seconds
LR changed during epoch: 2.43e-04 -> 2.40e-04
total runtime to train this model was 25.02089214324951 seconds
Hyperparameteres for model 1 at epoch 17
lr: 0.0002610457762689696
```

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.244905948638916 seconds

Loss: 1.1192

Train Accuracy: 59.92%

Test Accuracy: 60.35%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

```
--- Training Member 2 (Batch size: 256) ---
built data in 1.565425157546997 seconds
LR changed during epoch: 4.34e-04 -> 4.28e-04
total runtime to train this model was 24.74380874633789 seconds
```

Hyperparameteres for model 2 at epoch 17
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.1620681285858154 seconds
Loss: 1.0117

Train Accuracy: 63.92%

Test Accuracy: 64.65%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.5759689807891846 seconds

LR changed during epoch: 2.94e-04 -> 2.90e-04

total runtime to train this model was 24.83227801322937 seconds

Hyperparameteres for model 3 at epoch 17

lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.1984848976135254 seconds
Loss: 1.0882

Train Accuracy: 61.13%

Test Accuracy: 62.30%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.5641143321990967 seconds

LR changed during epoch: 9.72e-05 -> 1.94e-04

total runtime to train this model was 24.840391635894775 seconds

Hyperparameteres for model 4 at epoch 17

lr: 0.00048339668238501414

weight_decay: 0.43087995867019463

drop_path: 0.21179266737018654

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.1885626316070557 seconds
Loss: 0.9514

Train Accuracy: 66.25%

Test Accuracy: 65.64%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 17 Summary:
=====

Time: 144.64s (Avg member: 28.93s)

Population Mean Accuracy: 63.08%

Best Member Accuracy: 65.64%

Mean Batch Size: 256

Mean Learning Rate: 3.71e-04

Mean Weight Decay: 0.314

=====

Epoch 18/70
=====

--- Training Member 0 (Batch size: 256) ---

built data in 1.6953721046447754 seconds

LR changed during epoch: 3.28e-04 -> 3.27e-04

total runtime to train this model was 24.345483779907227 seconds

Hyperparameteres for model 0 at epoch 18

lr: 0.00032852039018270755

weight_decay: 0.28055952036243514

drop_path: 0.27458284474522676

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.7513275146484375 seconds

Loss: 1.0538

Train Accuracy: 62.36%

Test Accuracy: 63.45%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.731999397277832 seconds

LR changed during epoch: 2.40e-04 -> 2.36e-04

total runtime to train this model was 24.098593950271606 seconds

Hyperparameteres for model 1 at epoch 18

lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.1276681423187256 seconds

Loss: 1.1032

Train Accuracy: 60.58%

Test Accuracy: 62.20%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.5763747692108154 seconds
LR changed during epoch: 4.28e-04 -> 4.21e-04
total runtime to train this model was 24.617034912109375 seconds
Hyperparameteres for model 2 at epoch 18
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2261147499084473 seconds
Loss: 0.9868

Train Accuracy: 64.87%

Test Accuracy: 65.80%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.55598783493042 seconds
LR changed during epoch: 2.90e-04 -> 2.85e-04
total runtime to train this model was 24.639612197875977 seconds
Hyperparameteres for model 3 at epoch 18
lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.1424598693847656 seconds
Loss: 1.0729

Train Accuracy: 61.69%

Test Accuracy: 62.96%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.5782477855682373 seconds
LR changed during epoch: 1.94e-04 -> 2.91e-04
total runtime to train this model was 24.735100746154785 seconds
Hyperparameteres for model 4 at epoch 18
lr: 0.00048339668238501414

weight_decay: 0.43087995867019463

drop_path: 0.21179266737018654

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.130354642868042 seconds

Loss: 0.9719

Train Accuracy: 65.27%

Test Accuracy: 64.80%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 18 Summary:
=====

Time: 144.11s (Avg member: 28.82s)

Population Mean Accuracy: 63.84%

Best Member Accuracy: 65.80%

Mean Batch Size: 256

Mean Learning Rate: 3.71e-04

Mean Weight Decay: 0.314

=====

Epoch 19/70
=====

--- Training Member 0 (Batch size: 256) ---

built data in 1.5626938343048096 seconds

LR changed during epoch: 3.27e-04 -> 3.25e-04

total runtime to train this model was 24.511815071105957 seconds

Hyperparameteres for model 0 at epoch 19

lr: 0.00032852039018270755

weight_decay: 0.28055952036243514

drop_path: 0.27458284474522676

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.1707797050476074 seconds

Loss: 1.0292

Train Accuracy: 63.31%

Test Accuracy: 63.32%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.5789921283721924 seconds

LR changed during epoch: 2.36e-04 -> 2.32e-04

total runtime to train this model was 24.468754053115845 seconds

Hyperparameteres for model 1 at epoch 19

lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2205514907836914 seconds

Loss: 1.0827
Train Accuracy: 61.28%
Test Accuracy: 62.49%
Google Drive already mounted.
Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.609839916229248 seconds
LR changed during epoch: 4.21e-04 -> 4.15e-04
total runtime to train this model was 24.679259777069092 seconds
Hyperparameteres for model 2 at epoch 19
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4532296657562256 seconds

Loss: 0.9595
Train Accuracy: 65.92%
Test Accuracy: 66.45%
Google Drive already mounted.
Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.7312021255493164 seconds
LR changed during epoch: 2.85e-04 -> 2.81e-04
total runtime to train this model was 23.69092583656311 seconds
Hyperparameteres for model 3 at epoch 19
lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.08367919921875 seconds

Loss: 1.0567
Train Accuracy: 62.25%
Test Accuracy: 63.15%
Google Drive already mounted.
Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.6153967380523682 seconds
LR changed during epoch: 2.91e-04 -> 3.87e-04
total runtime to train this model was 24.545150756835938 seconds
Hyperparameteres for model 4 at epoch 19
lr: 0.00048339668238501414

weight_decay: 0.43087995867019463

drop_path: 0.21179266737018654

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.851945400238037 seconds

Loss: 0.9924

Train Accuracy: 64.60%

Test Accuracy: 64.18%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 19 Summary:
=====

Time: 144.04s (Avg member: 28.81s)

Population Mean Accuracy: 63.92%

Best Member Accuracy: 66.45%

Mean Batch Size: 256

Mean Learning Rate: 3.71e-04

Mean Weight Decay: 0.314

=====

Epoch 20/70
=====

--- Training Member 0 (Batch size: 256) ---

built data in 1.570934772491455 seconds

LR changed during epoch: 3.25e-04 -> 3.24e-04

total runtime to train this model was 24.785735368728638 seconds

Hyperparameteres for model 0 at epoch 20

lr: 0.00032852039018270755

weight_decay: 0.28055952036243514

drop_path: 0.27458284474522676

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2856080532073975 seconds

Loss: 1.0117

Train Accuracy: 63.96%

Test Accuracy: 63.33%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.5615894794464111 seconds

LR changed during epoch: 2.32e-04 -> 2.28e-04

total runtime to train this model was 24.726006507873535 seconds

Hyperparameteres for model 1 at epoch 20

lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2213096618652344 seconds
Loss: 1.0617

Train Accuracy: 62.46%

Test Accuracy: 63.51%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.5836026668548584 seconds
LR changed during epoch: 4.15e-04 -> 4.07e-04
total runtime to train this model was 24.580222606658936 seconds
Hyperparameteres for model 2 at epoch 20
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.184986114501953 seconds
Loss: 0.9417

Train Accuracy: 66.46%

Test Accuracy: 67.01%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.559473991394043 seconds
LR changed during epoch: 2.81e-04 -> 2.76e-04
total runtime to train this model was 24.949930667877197 seconds
Hyperparameteres for model 3 at epoch 20
lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.1890709400177 seconds
Loss: 1.0244

Train Accuracy: 63.46%

Test Accuracy: 63.90%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.5697870254516602 seconds
LR changed during epoch: 3.87e-04 -> 4.83e-04
total runtime to train this model was 24.876367568969727 seconds
Hyperparameteres for model 4 at epoch 20

lr: 0.00048339668238501414

weight_decay: 0.43087995867019463

drop_path: 0.21179266737018654

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.190333366394043 seconds

Loss: 1.0071

Train Accuracy: 64.37%

Test Accuracy: 63.27%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

--- Population Update (Epoch 20) ---

=== PBT Exploit & Explore ===

Top performers: [67.01]

Bottom performers: [63.27]

Member 4: lr changed from 0.00048339668238501414 to 0.0003660093682741275

Member 4: weight_decay changed from 0.43087995867019463 to 0.5

Member 4: drop_path changed from 0.21179266737018654 to 0.18626259427183606

Member 4 copied from 2

LR=3.66e-04, WD=0.500, DropPath=0.186, Warmup=5 epochs, Batch=256

=====
Epoch 20 Summary:
=====

Time: 144.01s (Avg member: 28.80s)

Population Mean Accuracy: 64.20%

Best Member Accuracy: 67.01%

Mean Batch Size: 256

Mean Learning Rate: 3.47e-04

Mean Weight Decay: 0.328

=====
Epoch 21/70
=====

--- Training Member 0 (Batch size: 256) ---

built data in 1.6828281879425049 seconds

LR changed during epoch: 3.24e-04 -> 3.22e-04

total runtime to train this model was 24.42064595222473 seconds

Hyperparameteres for model 0 at epoch 21

lr: 0.00032852039018270755

weight_decay: 0.28055952036243514

drop_path: 0.27458284474522676

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.588024139404297 seconds

Loss: 0.9882

Train Accuracy: 64.87%

Test Accuracy: 65.03%
Google Drive already mounted.
Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.7369117736816406 seconds
LR changed during epoch: 2.28e-04 -> 2.24e-04
total runtime to train this model was 23.787956714630127 seconds
Hyperparameteres for model 1 at epoch 21
lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.367851734161377 seconds

Loss: 1.0537

Train Accuracy: 62.45%

Test Accuracy: 63.70%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.5722835063934326 seconds
LR changed during epoch: 4.07e-04 -> 4.00e-04
total runtime to train this model was 24.260947704315186 seconds
Hyperparameteres for model 2 at epoch 21
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.661203622817993 seconds

Loss: 0.9224

Train Accuracy: 67.22%

Test Accuracy: 68.23%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.571751356124878 seconds
LR changed during epoch: 2.76e-04 -> 2.71e-04
total runtime to train this model was 24.933150053024292 seconds
Hyperparameteres for model 3 at epoch 21
lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.162911891937256 seconds

Loss: 1.0203

Train Accuracy: 63.68%

Test Accuracy: 64.83%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.5779728889465332 seconds

LR changed during epoch: 3.73e-07 -> 7.36e-05

total runtime to train this model was 24.485474824905396 seconds

Hyperparameteres for model 4 at epoch 21

lr: 0.0003660093682741275

weight_decay: 0.5

drop_path: 0.18626259427183606

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.186553955078125 seconds

Loss: 0.8642

Train Accuracy: 69.16%

Test Accuracy: 70.08%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 21 Summary:

=====
Time: 144.20s (Avg member: 28.84s)

Population Mean Accuracy: 66.37%

Best Member Accuracy: 70.08%

Mean Batch Size: 256

Mean Learning Rate: 3.47e-04

Mean Weight Decay: 0.328

=====
Epoch 22/70

=====
--- Training Member 0 (Batch size: 256) ---

built data in 1.5716395378112793 seconds

LR changed during epoch: 3.22e-04 -> 3.19e-04

total runtime to train this model was 24.54507875442505 seconds

Hyperparameteres for model 0 at epoch 22

lr: 0.00032852039018270755

weight_decay: 0.28055952036243514

drop_path: 0.27458284474522676

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.120884656906128 seconds

Loss: 0.9832

Train Accuracy: 65.19%

Test Accuracy: 64.81%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.59820556640625 seconds

LR changed during epoch: 2.24e-04 -> 2.20e-04

total runtime to train this model was 24.3766028881073 seconds

Hyperparameteres for model 1 at epoch 22

lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.1393954753875732 seconds

Loss: 1.0346

Train Accuracy: 63.46%

Test Accuracy: 64.45%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.5685021877288818 seconds

LR changed during epoch: 4.00e-04 -> 3.92e-04

total runtime to train this model was 24.40170168876648 seconds

Hyperparameteres for model 2 at epoch 22

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.1765058040618896 seconds

Loss: 0.9020

Train Accuracy: 67.87%

Test Accuracy: 69.01%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.5985569953918457 seconds

LR changed during epoch: 2.71e-04 -> 2.65e-04

total runtime to train this model was 24.358003616333008 seconds

Hyperparameteres for model 3 at epoch 22

lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2222893238067627 seconds

Loss: 0.9983

Train Accuracy: 64.57%

Test Accuracy: 65.44%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.7709784507751465 seconds

LR changed during epoch: 7.36e-05 -> 1.47e-04

total runtime to train this model was 24.411349296569824 seconds

Hyperparameteres for model 4 at epoch 22

lr: 0.0003660093682741275

weight_decay: 0.5

drop_path: 0.18626259427183606

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9498236179351807 seconds

Loss: 0.8376

Train Accuracy: 70.44%

Test Accuracy: 69.00%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 22 Summary:

=====
Time: 143.04s (Avg member: 28.61s)

Population Mean Accuracy: 66.54%

Best Member Accuracy: 69.01%

Mean Batch Size: 256

Mean Learning Rate: 3.47e-04

Mean Weight Decay: 0.328

=====
Epoch 23/70

--- Training Member 0 (Batch size: 256) ---

built data in 1.7435171604156494 seconds

LR changed during epoch: 3.19e-04 -> 3.16e-04

total runtime to train this model was 24.986270666122437 seconds

Hyperparameteres for model 0 at epoch 23

lr: 0.00032852039018270755

weight_decay: 0.28055952036243514

drop_path: 0.27458284474522676

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.8357603549957275 seconds

Loss: 0.9508

Train Accuracy: 66.13%

Test Accuracy: 66.01%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.5873255729675293 seconds

LR changed during epoch: 2.20e-04 -> 2.15e-04

total runtime to train this model was 25.254105806350708 seconds

Hyperparameteres for model 1 at epoch 23

lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.271054267883301 seconds

Loss: 1.0202

Train Accuracy: 63.77%

Test Accuracy: 64.61%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.587590217590332 seconds

LR changed during epoch: 3.92e-04 -> 3.83e-04

total runtime to train this model was 25.090617895126343 seconds

Hyperparameteres for model 2 at epoch 23

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2813236713409424 seconds

Loss: 0.8790

Train Accuracy: 68.96%

Test Accuracy: 69.68%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.591188669204712 seconds

LR changed during epoch: 2.65e-04 -> 2.60e-04
total runtime to train this model was 24.851309061050415 seconds
Hyperparameteres for model 3 at epoch 23
lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.217005491256714 seconds

Loss: 0.9813

Train Accuracy: 65.17%

Test Accuracy: 66.96%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.5844917297363281 seconds

LR changed during epoch: 1.47e-04 -> 2.20e-04

total runtime to train this model was 25.162532091140747 seconds

Hyperparameteres for model 4 at epoch 23

lr: 0.0003660093682741275

weight_decay: 0.5

drop_path: 0.18626259427183606

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2334654331207275 seconds

Loss: 0.8415

Train Accuracy: 70.12%

Test Accuracy: 69.90%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 23 Summary:

=====
Time: 146.44s (Avg member: 29.29s)

Population Mean Accuracy: 67.43%

Best Member Accuracy: 69.90%

Mean Batch Size: 256

Mean Learning Rate: 3.47e-04

Mean Weight Decay: 0.328

=====
Epoch 24/70

--- Training Member 0 (Batch size: 256) ---

built data in 1.7361640930175781 seconds

LR changed during epoch: 3.16e-04 -> 3.13e-04

total runtime to train this model was 24.395583629608154 seconds

Hyperparameteres for model 0 at epoch 24
lr: 0.00032852039018270755

weight_decay: 0.28055952036243514

drop_path: 0.27458284474522676

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.0476627349853516 seconds
Loss: 0.9468

Train Accuracy: 66.32%

Test Accuracy: 67.37%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.6451289653778076 seconds

LR changed during epoch: 2.15e-04 -> 2.10e-04

total runtime to train this model was 24.650020122528076 seconds

Hyperparameteres for model 1 at epoch 24

lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.934993267059326 seconds
Loss: 1.0104

Train Accuracy: 63.95%

Test Accuracy: 65.05%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.5868399143218994 seconds

LR changed during epoch: 3.83e-04 -> 3.74e-04

total runtime to train this model was 25.366641998291016 seconds

Hyperparameteres for model 2 at epoch 24

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.3337349891662598 seconds
Loss: 0.8564

Train Accuracy: 69.53%

Test Accuracy: 70.29%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.5887513160705566 seconds
LR changed during epoch: 2.60e-04 -> 2.54e-04
total runtime to train this model was 25.329972505569458 seconds
Hyperparameteres for model 3 at epoch 24
lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2343714237213135 seconds
Loss: 0.9686
Train Accuracy: 65.44%
Test Accuracy: 65.79%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.5634543895721436 seconds
LR changed during epoch: 2.20e-04 -> 2.93e-04
total runtime to train this model was 25.025374174118042 seconds
Hyperparameteres for model 4 at epoch 24
lr: 0.0003660093682741275

weight_decay: 0.5

drop_path: 0.18626259427183606

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.281280994415283 seconds
Loss: 0.8632
Train Accuracy: 69.52%
Test Accuracy: 69.05%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 24 Summary:

=====
Time: 146.92s (Avg member: 29.38s)
Population Mean Accuracy: 67.51%
Best Member Accuracy: 70.29%
Mean Batch Size: 256
Mean Learning Rate: 3.47e-04
Mean Weight Decay: 0.328

=====
Epoch 25/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.5845603942871094 seconds
LR changed during epoch: 3.13e-04 -> 3.10e-04
total runtime to train this model was 24.893531560897827 seconds
Hyperparameteres for model 0 at epoch 25
lr: 0.00032852039018270755

weight_decay: 0.28055952036243514

drop_path: 0.27458284474522676

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.1478638648986816 seconds
Loss: 0.9364

Train Accuracy: 66.79%

Test Accuracy: 66.31%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.665001630783081 seconds
LR changed during epoch: 2.10e-04 -> 2.05e-04
total runtime to train this model was 24.560702800750732 seconds
Hyperparameteres for model 1 at epoch 25
lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.470663547515869 seconds
Loss: 0.9903

Train Accuracy: 64.85%

Test Accuracy: 66.32%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.7306640148162842 seconds
LR changed during epoch: 3.74e-04 -> 3.65e-04
total runtime to train this model was 23.979292154312134 seconds
Hyperparameteres for model 2 at epoch 25
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.3945600986480713 seconds

Loss: 0.8432

Train Accuracy: 69.98%

Test Accuracy: 69.35%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.576326608657837 seconds

LR changed during epoch: 2.54e-04 -> 2.48e-04

total runtime to train this model was 24.774339199066162 seconds

Hyperparameteres for model 3 at epoch 25

lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5621960163116455 seconds

Loss: 0.9592

Train Accuracy: 65.90%

Test Accuracy: 66.87%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.562589168548584 seconds

LR changed during epoch: 2.93e-04 -> 3.66e-04

total runtime to train this model was 25.159801721572876 seconds

Hyperparameteres for model 4 at epoch 25

lr: 0.0003660093682741275

weight_decay: 0.5

drop_path: 0.18626259427183606

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.208250045776367 seconds

Loss: 0.8796

Train Accuracy: 68.93%

Test Accuracy: 68.32%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

--- Population Update (Epoch 25) ---

=== PBT Exploit & Explore ===

Top performers: [69.35]

Bottom performers: [66.31]

Member 0: lr changed from 0.00032852039018270755 to 0.00035996240070477407

Member 0: weight_decay changed from 0.28055952036243514 to 0.34234005784372074

Member 0: drop_path changed from 0.27458284474522676 to 0.25668365729351295

Member 0 copied from 2
LR=3.60e-04, WD=0.342, DropPath=0.257, Warmup=5 epochs, Batch=256

=====
Epoch 25 Summary:
=====

Time: 145.46s (Avg member: 29.09s)
Population Mean Accuracy: 67.43%
Best Member Accuracy: 69.35%
Mean Batch Size: 256
Mean Learning Rate: 3.54e-04
Mean Weight Decay: 0.340

=====
Epoch 26/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.5685386657714844 seconds
LR changed during epoch: 3.67e-07 -> 7.24e-05
total runtime to train this model was 25.016664505004883 seconds
Hyperparameteres for model 0 at epoch 26
lr: 0.00035996240070477407

weight_decay: 0.34234005784372074

drop_path: 0.25668365729351295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.1955533027648926 seconds
Loss: 0.7809

Train Accuracy: 72.35%

Test Accuracy: 72.52%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.5718400478363037 seconds
LR changed during epoch: 2.05e-04 -> 2.00e-04
total runtime to train this model was 25.25958490371704 seconds
Hyperparameteres for model 1 at epoch 26
lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2433362007141113 seconds
Loss: 0.9828

Train Accuracy: 65.10%

Test Accuracy: 64.59%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.5597467422485352 seconds
LR changed during epoch: 3.65e-04 -> 3.56e-04
total runtime to train this model was 24.691370487213135 seconds
Hyperparameteres for model 2 at epoch 26
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.188276767730713 seconds

Loss: 0.8242

Train Accuracy: 70.97%

Test Accuracy: 69.62%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6448907852172852 seconds
LR changed during epoch: 2.48e-04 -> 2.41e-04
total runtime to train this model was 24.62286114692688 seconds
Hyperparameteres for model 3 at epoch 26
lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.1749002933502197 seconds

Loss: 0.9474

Train Accuracy: 66.51%

Test Accuracy: 66.74%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.7251579761505127 seconds
LR changed during epoch: 3.66e-04 -> 3.66e-04
total runtime to train this model was 24.24434757232666 seconds
Hyperparameteres for model 4 at epoch 26
lr: 0.0003660093682741275

weight_decay: 0.5

drop_path: 0.18626259427183606

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.071612596511841 seconds

Loss: 0.8856

Train Accuracy: 68.69%

Test Accuracy: 68.02%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 26 Summary:
=====

Time: 145.00s (Avg member: 29.00s)

Population Mean Accuracy: 68.30%

Best Member Accuracy: 72.52%

Mean Batch Size: 256

Mean Learning Rate: 3.54e-04

Mean Weight Decay: 0.340

=====

Epoch 27/70
=====

--- Training Member 0 (Batch size: 256) ---

built data in 1.6369528770446777 seconds

LR changed during epoch: 7.24e-05 -> 1.44e-04

total runtime to train this model was 24.515384912490845 seconds

Hyperparameteres for model 0 at epoch 27

lr: 0.00035996240070477407

weight_decay: 0.34234005784372074

drop_path: 0.25668365729351295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.848970413208008 seconds

Loss: 0.7542

Train Accuracy: 73.34%

Test Accuracy: 72.30%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.5649755001068115 seconds

LR changed during epoch: 2.00e-04 -> 1.94e-04

total runtime to train this model was 24.88176465034485 seconds

Hyperparameteres for model 1 at epoch 27

lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.184586524963379 seconds

Loss: 0.9730
Train Accuracy: 65.53%
Test Accuracy: 66.07%
Google Drive already mounted.
Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6029815673828125 seconds
LR changed during epoch: 3.56e-04 -> 3.46e-04
total runtime to train this model was 25.14281702041626 seconds
Hyperparameteres for model 2 at epoch 27
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.125964403152466 seconds

Loss: 0.8023
Train Accuracy: 71.73%
Test Accuracy: 71.53%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.57749605178833 seconds
LR changed during epoch: 2.41e-04 -> 2.35e-04
total runtime to train this model was 25.13182044029236 seconds
Hyperparameteres for model 3 at epoch 27
lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.186751365661621 seconds

Loss: 0.9307
Train Accuracy: 67.00%
Test Accuracy: 67.62%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.5635664463043213 seconds
LR changed during epoch: 3.66e-04 -> 3.65e-04
total runtime to train this model was 25.09099316596985 seconds
Hyperparameteres for model 4 at epoch 27
lr: 0.0003660093682741275

weight_decay: 0.5

drop_path: 0.18626259427183606

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2367894649505615 seconds

Loss: 0.8766

Train Accuracy: 69.03%

Test Accuracy: 68.75%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 27 Summary:
=====

Time: 145.45s (Avg member: 29.09s)

Population Mean Accuracy: 69.25%

Best Member Accuracy: 72.30%

Mean Batch Size: 256

Mean Learning Rate: 3.54e-04

Mean Weight Decay: 0.340

=====
Epoch 28/70
=====

--- Training Member 0 (Batch size: 256) ---

built data in 1.5929806232452393 seconds

LR changed during epoch: 1.44e-04 -> 2.16e-04

total runtime to train this model was 24.675525903701782 seconds

Hyperparameteres for model 0 at epoch 28

lr: 0.00035996240070477407

weight_decay: 0.34234005784372074

drop_path: 0.25668365729351295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.254960536956787 seconds

Loss: 0.7640

Train Accuracy: 72.91%

Test Accuracy: 72.53%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.711566686630249 seconds

LR changed during epoch: 1.94e-04 -> 1.89e-04

total runtime to train this model was 24.3504855632782 seconds

Hyperparameteres for model 1 at epoch 28

lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.9443063735961914 seconds
Loss: 0.9576

Train Accuracy: 66.23%

Test Accuracy: 66.46%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6967194080352783 seconds
LR changed during epoch: 3.46e-04 -> 3.36e-04
total runtime to train this model was 24.03673243522644 seconds
Hyperparameteres for model 2 at epoch 28
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.029890537261963 seconds
Loss: 0.7872

Train Accuracy: 72.12%

Test Accuracy: 72.26%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.5639257431030273 seconds
LR changed during epoch: 2.35e-04 -> 2.28e-04
total runtime to train this model was 24.740029335021973 seconds
Hyperparameteres for model 3 at epoch 28
lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.1701436042785645 seconds
Loss: 0.9137

Train Accuracy: 67.49%

Test Accuracy: 66.33%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.566781759262085 seconds
LR changed during epoch: 3.65e-04 -> 3.64e-04
total runtime to train this model was 24.626448392868042 seconds
Hyperparameteres for model 4 at epoch 28

lr: 0.0003660093682741275

weight_decay: 0.5

drop_path: 0.18626259427183606

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.168067455291748 seconds

Loss: 0.8766

Train Accuracy: 69.09%

Test Accuracy: 69.48%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 28 Summary:

Time: 144.31s (Avg member: 28.86s)

Population Mean Accuracy: 69.41%

Best Member Accuracy: 72.53%

Mean Batch Size: 256

Mean Learning Rate: 3.54e-04

Mean Weight Decay: 0.340

=====
Epoch 29/70

--- Training Member 0 (Batch size: 256) ---

built data in 1.5755805969238281 seconds

LR changed during epoch: 2.16e-04 -> 2.88e-04

total runtime to train this model was 24.55258321762085 seconds

Hyperparameteres for model 0 at epoch 29

lr: 0.00035996240070477407

weight_decay: 0.34234005784372074

drop_path: 0.25668365729351295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.228180170059204 seconds

Loss: 0.7766

Train Accuracy: 72.51%

Test Accuracy: 71.84%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.5690746307373047 seconds

LR changed during epoch: 1.89e-04 -> 1.83e-04

total runtime to train this model was 24.315584182739258 seconds

Hyperparameteres for model 1 at epoch 29

lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3568267822265625 seconds

Loss: 0.9480

Train Accuracy: 66.51%

Test Accuracy: 67.12%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.569887638092041 seconds

LR changed during epoch: 3.36e-04 -> 3.26e-04

total runtime to train this model was 24.754987478256226 seconds

Hyperparameteres for model 2 at epoch 29

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.191671133041382 seconds

Loss: 0.7669

Train Accuracy: 72.74%

Test Accuracy: 72.77%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.6160991191864014 seconds

LR changed during epoch: 2.28e-04 -> 2.21e-04

total runtime to train this model was 24.70042371749878 seconds

Hyperparameteres for model 3 at epoch 29

lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2440271377563477 seconds

Loss: 0.8975

Train Accuracy: 68.14%

Test Accuracy: 67.19%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.693098545074463 seconds
LR changed during epoch: 3.64e-04 -> 3.63e-04
total runtime to train this model was 24.037023067474365 seconds
Hyperparameteres for model 4 at epoch 29
lr: 0.0003660093682741275

weight_decay: 0.5

drop_path: 0.18626259427183606

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.868161201477051 seconds

Loss: 0.8625

Train Accuracy: 69.27%

Test Accuracy: 70.08%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 29 Summary:
=====

Time: 143.54s (Avg member: 28.71s)

Population Mean Accuracy: 69.80%

Best Member Accuracy: 72.77%

Mean Batch Size: 256

Mean Learning Rate: 3.54e-04

Mean Weight Decay: 0.340
=====

Epoch 30/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.685089349746704 seconds
LR changed during epoch: 2.88e-04 -> 3.60e-04
total runtime to train this model was 24.132447957992554 seconds
Hyperparameteres for model 0 at epoch 30
lr: 0.00035996240070477407

weight_decay: 0.34234005784372074

drop_path: 0.25668365729351295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.931352138519287 seconds

Loss: 0.8006

Train Accuracy: 71.74%

Test Accuracy: 70.83%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.5637319087982178 seconds

LR changed during epoch: 1.83e-04 -> 1.77e-04
total runtime to train this model was 25.072750091552734 seconds
Hyperparameteres for model 1 at epoch 30
lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2826192378997803 seconds

Loss: 0.9386

Train Accuracy: 66.56%

Test Accuracy: 68.55%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.5828304290771484 seconds

LR changed during epoch: 3.26e-04 -> 3.16e-04

total runtime to train this model was 24.84551453590393 seconds

Hyperparameteres for model 2 at epoch 30

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.217994451522827 seconds

Loss: 0.7520

Train Accuracy: 73.59%

Test Accuracy: 72.43%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.5686113834381104 seconds

LR changed during epoch: 2.21e-04 -> 2.14e-04

total runtime to train this model was 24.841108322143555 seconds

Hyperparameteres for model 3 at epoch 30

lr: 0.0003155456675032866

weight_decay: 0.3398308014407791

drop_path: 0.20632463667325823

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.1914350986480713 seconds

Loss: 0.8906

Train Accuracy: 68.51%
Test Accuracy: 67.80%
Google Drive already mounted.
Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.5734367370605469 seconds
LR changed during epoch: 3.63e-04 -> 3.61e-04
total runtime to train this model was 24.710230112075806 seconds
Hyperparameteres for model 4 at epoch 30
lr: 0.0003660093682741275

weight_decay: 0.5

drop_path: 0.18626259427183606

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.1603050231933594 seconds
Loss: 0.8552

Train Accuracy: 69.80%
Test Accuracy: 69.78%
Google Drive already mounted.
Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

--- Population Update (Epoch 30) ---

=== PBT Exploit & Explore ===
Top performers: [72.43]
Bottom performers: [67.8]
Member 3: lr changed from 0.0003155456675032866 to 0.0002441756069039894
Member 3: weight_decay changed from 0.3398308014407791 to 0.427017108353093
Member 3: drop_path changed from 0.20632463667325823 to 0.27804434317397886
Member 3 copied from 2
LR=2.44e-04, WD=0.427, DropPath=0.278, Warmup=5 epochs, Batch=256

=====
Epoch 30 Summary:
=====

Time: 144.51s (Avg member: 28.90s)
Population Mean Accuracy: 69.88%
Best Member Accuracy: 72.43%
Mean Batch Size: 256
Mean Learning Rate: 3.39e-04
Mean Weight Decay: 0.358

=====
Epoch 31/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.563401460647583 seconds
LR changed during epoch: 3.60e-04 -> 3.60e-04
total runtime to train this model was 24.502411603927612 seconds
Hyperparameteres for model 0 at epoch 31
lr: 0.00035996240070477407

weight_decay: 0.34234005784372074

drop_path: 0.25668365729351295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.1727454662323 seconds

Loss: 0.8116

Train Accuracy: 71.11%

Test Accuracy: 70.38%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.6767373085021973 seconds

LR changed during epoch: 1.77e-04 -> 1.71e-04

total runtime to train this model was 24.075286149978638 seconds

Hyperparameteres for model 1 at epoch 31

lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4225070476531982 seconds

Loss: 0.9325

Train Accuracy: 67.11%

Test Accuracy: 68.45%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.7262566089630127 seconds

LR changed during epoch: 3.16e-04 -> 3.05e-04

total runtime to train this model was 23.563546657562256 seconds

Hyperparameteres for model 2 at epoch 31

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.797973871231079 seconds

Loss: 0.7354

Train Accuracy: 73.84%

Test Accuracy: 73.21%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.6697964668273926 seconds

LR changed during epoch: 2.49e-07 -> 4.91e-05
total runtime to train this model was 24.11041498184204 seconds
Hyperparameteres for model 3 at epoch 31
lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.194072723388672 seconds

Loss: 0.6805

Train Accuracy: 75.96%

Test Accuracy: 74.52%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.5981266498565674 seconds

LR changed during epoch: 3.61e-04 -> 3.58e-04

total runtime to train this model was 24.227922439575195 seconds

Hyperparameteres for model 4 at epoch 31

lr: 0.0003660093682741275

weight_decay: 0.5

drop_path: 0.18626259427183606

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3392889499664307 seconds

Loss: 0.8520

Train Accuracy: 69.97%

Test Accuracy: 70.27%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 31 Summary:

=====
Time: 142.84s (Avg member: 28.57s)

Population Mean Accuracy: 71.37%

Best Member Accuracy: 74.52%

Mean Batch Size: 256

Mean Learning Rate: 3.39e-04

Mean Weight Decay: 0.358

=====
Epoch 32/70

--- Training Member 0 (Batch size: 256) ---

built data in 1.5626904964447021 seconds

LR changed during epoch: 3.60e-04 -> 3.59e-04

total runtime to train this model was 25.48388648033142 seconds

Hyperparameteres for model 0 at epoch 32
lr: 0.00035996240070477407

weight_decay: 0.34234005784372074

drop_path: 0.25668365729351295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.42268705368042 seconds

Loss: 0.8046

Train Accuracy: 71.31%

Test Accuracy: 71.49%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.565964937210083 seconds

LR changed during epoch: 1.71e-04 -> 1.65e-04

total runtime to train this model was 25.498753309249878 seconds

Hyperparameteres for model 1 at epoch 32

lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.301459789276123 seconds

Loss: 0.9200

Train Accuracy: 67.33%

Test Accuracy: 67.36%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.5778076648712158 seconds

LR changed during epoch: 3.05e-04 -> 2.94e-04

total runtime to train this model was 25.39556646347046 seconds

Hyperparameteres for model 2 at epoch 32

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2037224769592285 seconds

Loss: 0.7246

Train Accuracy: 74.28%

Test Accuracy: 73.28%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.558577299118042 seconds
LR changed during epoch: 4.91e-05 -> 9.79e-05
total runtime to train this model was 24.972928047180176 seconds
Hyperparameteres for model 3 at epoch 32
lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2892181873321533 seconds
Loss: 0.6517
Train Accuracy: 76.95%
Test Accuracy: 74.60%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.7491466999053955 seconds
LR changed during epoch: 3.58e-04 -> 3.56e-04
total runtime to train this model was 24.208266496658325 seconds
Hyperparameteres for model 4 at epoch 32
lr: 0.0003660093682741275

weight_decay: 0.5

drop_path: 0.18626259427183606

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.2158286571502686 seconds
Loss: 0.8389
Train Accuracy: 70.29%
Test Accuracy: 70.95%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 32 Summary:

=====
Time: 147.26s (Avg member: 29.45s)
Population Mean Accuracy: 71.54%
Best Member Accuracy: 74.60%
Mean Batch Size: 256
Mean Learning Rate: 3.39e-04
Mean Weight Decay: 0.358

=====
Epoch 33/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.5938456058502197 seconds
LR changed during epoch: 3.59e-04 -> 3.58e-04
total runtime to train this model was 24.717851638793945 seconds
Hyperparameteres for model 0 at epoch 33
lr: 0.00035996240070477407

weight_decay: 0.34234005784372074

drop_path: 0.25668365729351295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.625702142715454 seconds

Loss: 0.7950

Train Accuracy: 71.68%

Test Accuracy: 71.81%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.5755667686462402 seconds
LR changed during epoch: 1.65e-04 -> 1.59e-04
total runtime to train this model was 25.124985694885254 seconds
Hyperparameteres for model 1 at epoch 33
lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.112579584121704 seconds

Loss: 0.9103

Train Accuracy: 67.83%

Test Accuracy: 68.20%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.5857996940612793 seconds
LR changed during epoch: 2.94e-04 -> 2.83e-04
total runtime to train this model was 24.93632411956787 seconds
Hyperparameteres for model 2 at epoch 33
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.191497564315796 seconds

Loss: 0.7081

Train Accuracy: 74.95%

Test Accuracy: 73.68%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.5649449825286865 seconds

LR changed during epoch: 9.79e-05 -> 1.47e-04

total runtime to train this model was 24.692193746566772 seconds

Hyperparameteres for model 3 at epoch 33

lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2875194549560547 seconds

Loss: 0.6558

Train Accuracy: 76.80%

Test Accuracy: 74.91%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.5606656074523926 seconds

LR changed during epoch: 3.56e-04 -> 3.53e-04

total runtime to train this model was 24.852954626083374 seconds

Hyperparameteres for model 4 at epoch 33

lr: 0.0003660093682741275

weight_decay: 0.5

drop_path: 0.18626259427183606

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.1529905796051025 seconds

Loss: 0.8350

Train Accuracy: 70.39%

Test Accuracy: 70.19%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 33 Summary:

=====
Time: 144.73s (Avg member: 28.95s)

Population Mean Accuracy: 71.76%

Best Member Accuracy: 74.91%

Mean Batch Size: 256

Mean Learning Rate: 3.39e-04

Mean Weight Decay: 0.358

=====
Epoch 34/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.6259596347808838 seconds
LR changed during epoch: 3.58e-04 -> 3.57e-04
total runtime to train this model was 24.436670541763306 seconds
Hyperparameteres for model 0 at epoch 34
lr: 0.00035996240070477407

weight_decay: 0.34234005784372074

drop_path: 0.25668365729351295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.213386058807373 seconds

Loss: 0.7873

Train Accuracy: 72.23%

Test Accuracy: 71.93%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.7085187435150146 seconds
LR changed during epoch: 1.59e-04 -> 1.53e-04
total runtime to train this model was 23.787144422531128 seconds
Hyperparameteres for model 1 at epoch 34
lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.587268590927124 seconds

Loss: 0.8981

Train Accuracy: 68.23%

Test Accuracy: 69.19%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.730299711227417 seconds
LR changed during epoch: 2.83e-04 -> 2.72e-04
total runtime to train this model was 23.787691831588745 seconds
Hyperparameteres for model 2 at epoch 34
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.197435140609741 seconds

Loss: 0.6889

Train Accuracy: 75.64%

Test Accuracy: 73.52%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.567711353302002 seconds

LR changed during epoch: 1.47e-04 -> 1.96e-04

total runtime to train this model was 24.64599108695984 seconds

Hyperparameteres for model 3 at epoch 34

lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2762277126312256 seconds

Loss: 0.6650

Train Accuracy: 76.28%

Test Accuracy: 73.72%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.5704684257507324 seconds

LR changed during epoch: 3.53e-04 -> 3.49e-04

total runtime to train this model was 24.644443035125732 seconds

Hyperparameteres for model 4 at epoch 34

lr: 0.0003660093682741275

weight_decay: 0.5

drop_path: 0.18626259427183606

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.1873209476470947 seconds

Loss: 0.8257

Train Accuracy: 70.94%

Test Accuracy: 70.43%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 34 Summary:
=====

Time: 143.25s (Avg member: 28.65s)
Population Mean Accuracy: 71.76%
Best Member Accuracy: 73.72%
Mean Batch Size: 256
Mean Learning Rate: 3.39e-04
Mean Weight Decay: 0.358

=====
Epoch 35/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.5648398399353027 seconds
LR changed during epoch: 3.57e-04 -> 3.55e-04
total runtime to train this model was 24.653449535369873 seconds
Hyperparameteres for model 0 at epoch 35
lr: 0.00035996240070477407

weight_decay: 0.34234005784372074

drop_path: 0.25668365729351295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.1275038719177246 seconds
Loss: 0.7785

Train Accuracy: 72.61%

Test Accuracy: 72.34%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.5706868171691895 seconds
LR changed during epoch: 1.53e-04 -> 1.47e-04
total runtime to train this model was 24.612915515899658 seconds
Hyperparameteres for model 1 at epoch 35
lr: 0.0002610457762689696

weight_decay: 0.4351200264873825

drop_path: 0.2988852362414701

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.1618101596832275 seconds
Loss: 0.8923

Train Accuracy: 68.34%

Test Accuracy: 68.54%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.5712807178497314 seconds
LR changed during epoch: 2.72e-04 -> 2.61e-04
total runtime to train this model was 24.63546061515808 seconds
Hyperparameteres for model 2 at epoch 35

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2786433696746826 seconds

Loss: 0.6717

Train Accuracy: 76.03%

Test Accuracy: 74.37%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.562654972076416 seconds

LR changed during epoch: 1.96e-04 -> 2.44e-04

total runtime to train this model was 24.63209295272827 seconds

Hyperparameteres for model 3 at epoch 35

lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.094846725463867 seconds

Loss: 0.6757

Train Accuracy: 76.20%

Test Accuracy: 74.00%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.7301363945007324 seconds

LR changed during epoch: 3.49e-04 -> 3.45e-04

total runtime to train this model was 23.85581135749817 seconds

Hyperparameteres for model 4 at epoch 35

lr: 0.0003660093682741275

weight_decay: 0.5

drop_path: 0.18626259427183606

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5741841793060303 seconds

Loss: 0.8228

Train Accuracy: 70.98%

Test Accuracy: 71.54%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

--- Population Update (Epoch 35) ---

=== PBT Exploit & Explore ===

Top performers: [74.37]

Bottom performers: [68.54]

Member 1: lr changed from 0.0002610457762689696 to 0.0002917661696515262

Member 1: weight_decay changed from 0.4351200264873825 to 0.49727262108778647

Member 1: drop_path changed from 0.2988852362414701 to 0.3098434224489126

Member 1 copied from 2

LR=2.92e-04, WD=0.497, DropPath=0.310, Warmup=5 epochs, Batch=256

=====
Epoch 35 Summary:
=====

Time: 142.85s (Avg member: 28.56s)

Population Mean Accuracy: 72.16%

Best Member Accuracy: 74.37%

Mean Batch Size: 256

Mean Learning Rate: 3.46e-04

Mean Weight Decay: 0.370

=====

Epoch 36/70
=====

--- Training Member 0 (Batch size: 256) ---

built data in 1.685502052307129 seconds

LR changed during epoch: 3.55e-04 -> 3.52e-04

total runtime to train this model was 24.0603609085083 seconds

Hyperparameteres for model 0 at epoch 36

lr: 0.00035996240070477407

weight_decay: 0.34234005784372074

drop_path: 0.25668365729351295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.175597906112671 seconds

Loss: 0.7720

Train Accuracy: 72.61%

Test Accuracy: 72.37%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.574875831604004 seconds

LR changed during epoch: 2.98e-07 -> 5.87e-05

total runtime to train this model was 24.52426528930664 seconds

Hyperparameteres for model 1 at epoch 36

lr: 0.0002917661696515262

weight_decay: 0.49727262108778647

drop_path: 0.3098434224489126

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.396387815475464 seconds

Loss: 0.6270

Train Accuracy: 77.81%

Test Accuracy: 76.08%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.5886011123657227 seconds

LR changed during epoch: 2.61e-04 -> 2.50e-04

total runtime to train this model was 24.72615075111389 seconds

Hyperparameteres for model 2 at epoch 36

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5112156867980957 seconds

Loss: 0.6609

Train Accuracy: 76.91%

Test Accuracy: 75.34%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.6319868564605713 seconds

LR changed during epoch: 2.44e-04 -> 2.44e-04

total runtime to train this model was 24.96442937850952 seconds

Hyperparameteres for model 3 at epoch 36

lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.513831615447998 seconds

Loss: 0.6881

Train Accuracy: 75.82%

Test Accuracy: 74.05%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.6547422409057617 seconds

LR changed during epoch: 3.45e-04 -> 3.41e-04

total runtime to train this model was 24.975979566574097 seconds

Hyperparameteres for model 4 at epoch 36

lr: 0.0003660093682741275

weight_decay: 0.5

drop_path: 0.18626259427183606

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.54728102684021 seconds

Loss: 0.8120

Train Accuracy: 71.41%

Test Accuracy: 70.71%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 36 Summary:
=====

Time: 145.67s (Avg member: 29.13s)

Population Mean Accuracy: 73.71%

Best Member Accuracy: 76.08%

Mean Batch Size: 256

Mean Learning Rate: 3.46e-04

Mean Weight Decay: 0.370

=====
Epoch 37/70
=====

--- Training Member 0 (Batch size: 256) ---

built data in 1.576913833618164 seconds

LR changed during epoch: 3.52e-04 -> 3.50e-04

total runtime to train this model was 25.468657732009888 seconds

Hyperparameteres for model 0 at epoch 37

lr: 0.00035996240070477407

weight_decay: 0.34234005784372074

drop_path: 0.25668365729351295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.850424289703369 seconds

Loss: 0.7682

Train Accuracy: 72.83%

Test Accuracy: 72.39%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.8182685375213623 seconds

LR changed during epoch: 5.87e-05 -> 1.17e-04

total runtime to train this model was 24.173247575759888 seconds

Hyperparameteres for model 1 at epoch 37

lr: 0.0002917661696515262

weight_decay: 0.49727262108778647

drop_path: 0.3098434224489126

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.230480432510376 seconds

Loss: 0.6120

Train Accuracy: 78.20%

Test Accuracy: 76.19%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.5759141445159912 seconds

LR changed during epoch: 2.50e-04 -> 2.39e-04

total runtime to train this model was 25.201023817062378 seconds

Hyperparameteres for model 2 at epoch 37

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.282113790512085 seconds

Loss: 0.6463

Train Accuracy: 77.13%

Test Accuracy: 75.86%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.5852742195129395 seconds

LR changed during epoch: 2.44e-04 -> 2.44e-04

total runtime to train this model was 24.80301809310913 seconds

Hyperparameteres for model 3 at epoch 37

lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2313783168792725 seconds

Loss: 0.6795

Train Accuracy: 76.06%

Test Accuracy: 73.78%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.579909086227417 seconds
LR changed during epoch: 3.41e-04 -> 3.36e-04
total runtime to train this model was 25.069266319274902 seconds
Hyperparameteres for model 4 at epoch 37
lr: 0.0003660093682741275

weight_decay: 0.5

drop_path: 0.18626259427183606

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.199719190597534 seconds

Loss: 0.8134

Train Accuracy: 71.35%

Test Accuracy: 70.41%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 37 Summary:

=====
Time: 147.06s (Avg member: 29.41s)

Population Mean Accuracy: 73.73%

Best Member Accuracy: 76.19%

Mean Batch Size: 256

Mean Learning Rate: 3.46e-04

Mean Weight Decay: 0.370

=====
Epoch 38/70

=====
--- Training Member 0 (Batch size: 256) ---
built data in 1.6215715408325195 seconds
LR changed during epoch: 3.50e-04 -> 3.47e-04
total runtime to train this model was 24.781299352645874 seconds
Hyperparameteres for model 0 at epoch 38
lr: 0.00035996240070477407

weight_decay: 0.34234005784372074

drop_path: 0.25668365729351295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.343754291534424 seconds

Loss: 0.7528

Train Accuracy: 73.47%

Test Accuracy: 72.80%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6403563022613525 seconds

LR changed during epoch: 1.17e-04 -> 1.75e-04
total runtime to train this model was 24.846386432647705 seconds
Hyperparameteres for model 1 at epoch 38
lr: 0.0002917661696515262

weight_decay: 0.49727262108778647

drop_path: 0.3098434224489126

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.3949482440948486 seconds
Loss: 0.6176

Train Accuracy: 78.21%

Test Accuracy: 75.55%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.7348136901855469 seconds
LR changed during epoch: 2.39e-04 -> 2.28e-04
total runtime to train this model was 24.09737539291382 seconds
Hyperparameteres for model 2 at epoch 38
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.7832372188568115 seconds
Loss: 0.6288

Train Accuracy: 77.81%

Test Accuracy: 75.74%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.7277019023895264 seconds
LR changed during epoch: 2.44e-04 -> 2.43e-04
total runtime to train this model was 23.727625608444214 seconds
Hyperparameteres for model 3 at epoch 38
lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.243839979171753 seconds
Loss: 0.6749

Train Accuracy: 76.09%
Test Accuracy: 74.08%
Google Drive already mounted.
Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.5863709449768066 seconds
LR changed during epoch: 3.36e-04 -> 3.31e-04
total runtime to train this model was 24.78956961631775 seconds
Hyperparameteres for model 4 at epoch 38
lr: 0.0003660093682741275

weight_decay: 0.5

drop_path: 0.18626259427183606

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.244920253753662 seconds

Loss: 0.7997

Train Accuracy: 71.93%

Test Accuracy: 72.05%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 38 Summary:

=====
Time: 144.78s (Avg member: 28.96s)

Population Mean Accuracy: 74.04%

Best Member Accuracy: 75.74%

Mean Batch Size: 256

Mean Learning Rate: 3.46e-04

Mean Weight Decay: 0.370

=====
Epoch 39/70

=====
--- Training Member 0 (Batch size: 256) ---
built data in 1.574753999710083 seconds
LR changed during epoch: 3.47e-04 -> 3.43e-04
total runtime to train this model was 24.88412380218506 seconds
Hyperparameteres for model 0 at epoch 39
lr: 0.00035996240070477407

weight_decay: 0.34234005784372074

drop_path: 0.25668365729351295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2635536193847656 seconds

Loss: 0.7486

Train Accuracy: 73.57%

Test Accuracy: 72.58%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.6044015884399414 seconds

LR changed during epoch: 1.75e-04 -> 2.34e-04

total runtime to train this model was 24.54280400276184 seconds

Hyperparameteres for model 1 at epoch 39

lr: 0.0002917661696515262

weight_decay: 0.49727262108778647

drop_path: 0.3098434224489126

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.1815173625946045 seconds

Loss: 0.6437

Train Accuracy: 77.15%

Test Accuracy: 75.17%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.6110126972198486 seconds

LR changed during epoch: 2.28e-04 -> 2.17e-04

total runtime to train this model was 24.699277877807617 seconds

Hyperparameteres for model 2 at epoch 39

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.220824956893921 seconds

Loss: 0.6144

Train Accuracy: 78.20%

Test Accuracy: 75.53%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.6348814964294434 seconds

LR changed during epoch: 2.43e-04 -> 2.42e-04

total runtime to train this model was 24.850355863571167 seconds

Hyperparameteres for model 3 at epoch 39

lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.224327564239502 seconds

Loss: 0.6702

Train Accuracy: 76.53%

Test Accuracy: 74.78%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.818429946899414 seconds

LR changed during epoch: 3.31e-04 -> 3.26e-04

total runtime to train this model was 24.100467920303345 seconds

Hyperparameteres for model 4 at epoch 39

lr: 0.0003660093682741275

weight_decay: 0.5

drop_path: 0.18626259427183606

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.8239893913269043 seconds

Loss: 0.7947

Train Accuracy: 71.90%

Test Accuracy: 71.90%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 39 Summary:

=====
Time: 144.20s (Avg member: 28.84s)

Population Mean Accuracy: 73.99%

Best Member Accuracy: 75.53%

Mean Batch Size: 256

Mean Learning Rate: 3.46e-04

Mean Weight Decay: 0.370
=====

Epoch 40/70
=====

--- Training Member 0 (Batch size: 256) ---

built data in 1.7189655303955078 seconds

LR changed during epoch: 3.43e-04 -> 3.39e-04

total runtime to train this model was 23.89030694961548 seconds

Hyperparameteres for model 0 at epoch 40

lr: 0.00035996240070477407

weight_decay: 0.34234005784372074

drop_path: 0.25668365729351295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.1568238735198975 seconds

Loss: 0.7420

Train Accuracy: 73.77%

Test Accuracy: 73.30%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.5841054916381836 seconds

LR changed during epoch: 2.34e-04 -> 2.92e-04

total runtime to train this model was 25.109858512878418 seconds

Hyperparameteres for model 1 at epoch 40

lr: 0.0002917661696515262

weight_decay: 0.49727262108778647

drop_path: 0.3098434224489126

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2132632732391357 seconds

Loss: 0.6617

Train Accuracy: 76.67%

Test Accuracy: 75.39%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.5632095336914062 seconds

LR changed during epoch: 2.17e-04 -> 2.05e-04

total runtime to train this model was 24.875417470932007 seconds

Hyperparameteres for model 2 at epoch 40

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2318623065948486 seconds

Loss: 0.5987

Train Accuracy: 78.78%

Test Accuracy: 76.25%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.6233744621276855 seconds

LR changed during epoch: 2.42e-04 -> 2.41e-04

total runtime to train this model was 24.974255084991455 seconds

Hyperparameteres for model 3 at epoch 40

lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2185933589935303 seconds

Loss: 0.6647

Train Accuracy: 76.34%

Test Accuracy: 74.65%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.6303060054779053 seconds

LR changed during epoch: 3.26e-04 -> 3.20e-04

total runtime to train this model was 24.763790130615234 seconds

Hyperparameteres for model 4 at epoch 40

lr: 0.0003660093682741275

weight_decay: 0.5

drop_path: 0.18626259427183606

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.1671109199523926 seconds

Loss: 0.7915

Train Accuracy: 72.37%

Test Accuracy: 72.19%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

--- Population Update (Epoch 40) ---

=== PBT Exploit & Explore ===

Top performers: [76.25]

Bottom performers: [72.19]

Member 4: lr changed from 0.0003660093682741275 to 0.0005535546109995081

Member 4: drop_path changed from 0.18626259427183606 to 0.25070122668799566

Member 4 copied from 2

LR=5.54e-04, WD=0.500, DropPath=0.251, Warmup=5 epochs, Batch=256

=====
Epoch 40 Summary:

=====
Time: 144.91s (Avg member: 28.98s)

Population Mean Accuracy: 74.36%

Best Member Accuracy: 76.25%

Mean Batch Size: 256

Mean Learning Rate: 3.83e-04

Mean Weight Decay: 0.370

=====
Epoch 41/70

--- Training Member 0 (Batch size: 256) ---
built data in 1.679896354675293 seconds
LR changed during epoch: 3.39e-04 -> 3.35e-04
total runtime to train this model was 25.010085105895996 seconds
Hyperparameteres for model 0 at epoch 41
lr: 0.00035996240070477407

weight_decay: 0.34234005784372074

drop_path: 0.25668365729351295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.186619758605957 seconds

Loss: 0.7383

Train Accuracy: 73.81%

Test Accuracy: 73.95%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6868369579315186 seconds
LR changed during epoch: 2.92e-04 -> 2.92e-04
total runtime to train this model was 25.403607845306396 seconds
Hyperparameteres for model 1 at epoch 41
lr: 0.0002917661696515262

weight_decay: 0.49727262108778647

drop_path: 0.3098434224489126

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.2448229789733887 seconds

Loss: 0.6771

Train Accuracy: 76.22%

Test Accuracy: 74.60%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6473703384399414 seconds
LR changed during epoch: 2.05e-04 -> 1.94e-04
total runtime to train this model was 25.67616891860962 seconds
Hyperparameteres for model 2 at epoch 41
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.28652024269104 seconds

Loss: 0.5895

Train Accuracy: 79.10%

Test Accuracy: 76.08%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.580953598022461 seconds

LR changed during epoch: 2.41e-04 -> 2.39e-04

total runtime to train this model was 25.502657890319824 seconds

Hyperparameteres for model 3 at epoch 41

lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2257964611053467 seconds

Loss: 0.6596

Train Accuracy: 76.74%

Test Accuracy: 74.95%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.6103005409240723 seconds

LR changed during epoch: 5.65e-07 -> 1.11e-04

total runtime to train this model was 25.006951570510864 seconds

Hyperparameteres for model 4 at epoch 41

lr: 0.0005535546109995081

weight_decay: 0.5

drop_path: 0.25070122668799566

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.156799077987671 seconds

Loss: 0.5520

Train Accuracy: 80.45%

Test Accuracy: 77.20%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 41 Summary:

=====
Time: 148.13s (Avg member: 29.63s)

Population Mean Accuracy: 75.36%

Best Member Accuracy: 77.20%

Mean Batch Size: 256

Mean Learning Rate: 3.83e-04

Mean Weight Decay: 0.370

=====
Epoch 42/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.598829984664917 seconds
LR changed during epoch: 3.35e-04 -> 3.31e-04
total runtime to train this model was 25.017306566238403 seconds
Hyperparameteres for model 0 at epoch 42
lr: 0.00035996240070477407

weight_decay: 0.34234005784372074

drop_path: 0.25668365729351295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.258693218231201 seconds

Loss: 0.7263

Train Accuracy: 74.40%

Test Accuracy: 74.16%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6799976825714111 seconds
LR changed during epoch: 2.92e-04 -> 2.91e-04
total runtime to train this model was 25.26857566833496 seconds
Hyperparameteres for model 1 at epoch 42
lr: 0.0002917661696515262

weight_decay: 0.49727262108778647

drop_path: 0.3098434224489126

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.7383220195770264 seconds

Loss: 0.6806

Train Accuracy: 75.86%

Test Accuracy: 74.28%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.7385294437408447 seconds
LR changed during epoch: 1.94e-04 -> 1.83e-04
total runtime to train this model was 25.651405096054077 seconds
Hyperparameteres for model 2 at epoch 42
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.8567826747894287 seconds

Loss: 0.5712

Train Accuracy: 79.82%

Test Accuracy: 76.72%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.614687204360962 seconds

LR changed during epoch: 2.39e-04 -> 2.37e-04

total runtime to train this model was 25.78217124938965 seconds

Hyperparameteres for model 3 at epoch 42

lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2184650897979736 seconds

Loss: 0.6586

Train Accuracy: 76.81%

Test Accuracy: 75.17%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.5907204151153564 seconds

LR changed during epoch: 1.11e-04 -> 2.22e-04

total runtime to train this model was 25.32017946243286 seconds

Hyperparameteres for model 4 at epoch 42

lr: 0.0005535546109995081

weight_decay: 0.5

drop_path: 0.25070122668799566

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.177584648132324 seconds

Loss: 0.5717

Train Accuracy: 79.93%

Test Accuracy: 76.47%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 42 Summary:

=====
Time: 148.74s (Avg member: 29.75s)

Population Mean Accuracy: 75.36%
Best Member Accuracy: 76.72%
Mean Batch Size: 256
Mean Learning Rate: 3.83e-04
Mean Weight Decay: 0.370

=====
Epoch 43/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.607508659362793 seconds
LR changed during epoch: 3.31e-04 -> 3.26e-04
total runtime to train this model was 24.808318376541138 seconds
Hyperparameteres for model 0 at epoch 43
lr: 0.00035996240070477407

weight_decay: 0.34234005784372074

drop_path: 0.25668365729351295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2356038093566895 seconds
Loss: 0.7180

Train Accuracy: 74.70%

Test Accuracy: 74.06%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.569220781326294 seconds
LR changed during epoch: 2.91e-04 -> 2.90e-04
total runtime to train this model was 25.0466570854187 seconds
Hyperparameteres for model 1 at epoch 43
lr: 0.0002917661696515262

weight_decay: 0.49727262108778647

drop_path: 0.3098434224489126

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2742366790771484 seconds
Loss: 0.6767

Train Accuracy: 76.13%

Test Accuracy: 74.03%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.7863705158233643 seconds
LR changed during epoch: 1.83e-04 -> 1.72e-04
total runtime to train this model was 24.2174813747406 seconds
Hyperparameteres for model 2 at epoch 43
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.172672986984253 seconds

Loss: 0.5579

Train Accuracy: 80.22%

Test Accuracy: 76.78%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.616943597793579 seconds

LR changed during epoch: 2.37e-04 -> 2.35e-04

total runtime to train this model was 25.06857395172119 seconds

Hyperparameteres for model 3 at epoch 43

lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.7248284816741943 seconds

Loss: 0.6501

Train Accuracy: 76.96%

Test Accuracy: 75.63%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.6179769039154053 seconds

LR changed during epoch: 2.22e-04 -> 3.33e-04

total runtime to train this model was 25.853172063827515 seconds

Hyperparameteres for model 4 at epoch 43

lr: 0.0005535546109995081

weight_decay: 0.5

drop_path: 0.25070122668799566

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.280853271484375 seconds

Loss: 0.6163

Train Accuracy: 78.06%

Test Accuracy: 75.22%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 43 Summary:
=====

Time: 147.19s (Avg member: 29.44s)
Population Mean Accuracy: 75.14%
Best Member Accuracy: 76.78%
Mean Batch Size: 256
Mean Learning Rate: 3.83e-04
Mean Weight Decay: 0.370

=====
Epoch 44/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.6039509773254395 seconds
LR changed during epoch: 3.26e-04 -> 3.20e-04
total runtime to train this model was 25.37458086013794 seconds
Hyperparameteres for model 0 at epoch 44
lr: 0.00035996240070477407

weight_decay: 0.34234005784372074

drop_path: 0.25668365729351295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.3833770751953125 seconds
Loss: 0.7130

Train Accuracy: 74.96%

Test Accuracy: 73.98%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.5982778072357178 seconds
LR changed during epoch: 2.90e-04 -> 2.89e-04
total runtime to train this model was 25.436388969421387 seconds
Hyperparameteres for model 1 at epoch 44
lr: 0.0002917661696515262

weight_decay: 0.49727262108778647

drop_path: 0.3098434224489126

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.27158522605896 seconds
Loss: 0.6734

Train Accuracy: 76.24%

Test Accuracy: 74.92%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.7238571643829346 seconds
LR changed during epoch: 1.72e-04 -> 1.62e-04
total runtime to train this model was 25.16892409324646 seconds
Hyperparameteres for model 2 at epoch 44
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9445972442626953 seconds

Loss: 0.5422

Train Accuracy: 80.78%

Test Accuracy: 76.60%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.798248529434204 seconds

LR changed during epoch: 2.35e-04 -> 2.33e-04

total runtime to train this model was 24.733275413513184 seconds

Hyperparameteres for model 3 at epoch 44

lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.113879680633545 seconds

Loss: 0.6500

Train Accuracy: 76.93%

Test Accuracy: 74.80%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.6527073383331299 seconds

LR changed during epoch: 3.33e-04 -> 4.43e-04

total runtime to train this model was 25.970365524291992 seconds

Hyperparameteres for model 4 at epoch 44

lr: 0.0005535546109995081

weight_decay: 0.5

drop_path: 0.25070122668799566

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.429021120071411 seconds

Loss: 0.6644
Train Accuracy: 76.41%
Test Accuracy: 73.43%
Google Drive already mounted.
Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 44 Summary:
=====

Time: 149.40s (Avg member: 29.88s)
Population Mean Accuracy: 74.75%
Best Member Accuracy: 76.60%
Mean Batch Size: 256
Mean Learning Rate: 3.83e-04
Mean Weight Decay: 0.370

=====
Epoch 45/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.6762681007385254 seconds
LR changed during epoch: 3.20e-04 -> 3.15e-04
total runtime to train this model was 25.607388734817505 seconds
Hyperparameteres for model 0 at epoch 45
lr: 0.00035996240070477407

weight_decay: 0.34234005784372074

drop_path: 0.25668365729351295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.3413071632385254 seconds
Loss: 0.7091

Train Accuracy: 75.14%

Test Accuracy: 74.45%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6148808002471924 seconds
LR changed during epoch: 2.89e-04 -> 2.88e-04
total runtime to train this model was 25.664963483810425 seconds
Hyperparameteres for model 1 at epoch 45
lr: 0.0002917661696515262

weight_decay: 0.49727262108778647

drop_path: 0.3098434224489126

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.3014228343963623 seconds
Loss: 0.6817

Train Accuracy: 76.08%

Test Accuracy: 74.45%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.8131625652313232 seconds

LR changed during epoch: 1.62e-04 -> 1.51e-04

total runtime to train this model was 24.90614342689514 seconds

Hyperparameteres for model 2 at epoch 45

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9994864463806152 seconds

Loss: 0.5305

Train Accuracy: 81.24%

Test Accuracy: 77.43%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.7741639614105225 seconds

LR changed during epoch: 2.33e-04 -> 2.30e-04

total runtime to train this model was 25.075883626937866 seconds

Hyperparameteres for model 3 at epoch 45

lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.875610113143921 seconds

Loss: 0.6417

Train Accuracy: 77.40%

Test Accuracy: 73.63%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.634500503540039 seconds

LR changed during epoch: 4.43e-04 -> 5.54e-04

total runtime to train this model was 25.84231996536255 seconds

Hyperparameteres for model 4 at epoch 45

lr: 0.0005535546109995081

weight_decay: 0.5

drop_path: 0.25070122668799566

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2585232257843018 seconds
Loss: 0.7168

Train Accuracy: 74.55%

Test Accuracy: 71.40%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

--- Population Update (Epoch 45) ---

=== PBT Exploit & Explore ===

Top performers: [77.43]

Bottom performers: [71.4]

Member 4: lr changed from 0.0005535546109995081 to 0.00037335173739611965

Member 4: drop_path changed from 0.25070122668799566 to 0.15607098779143497

Member 4 copied from 2

LR=3.73e-04, WD=0.500, DropPath=0.156, Warmup=5 epochs, Batch=256

=====
Epoch 45 Summary:
=====

Time: 149.75s (Avg member: 29.95s)

Population Mean Accuracy: 74.27%

Best Member Accuracy: 77.43%

Mean Batch Size: 256

Mean Learning Rate: 3.47e-04

Mean Weight Decay: 0.370

=====

Epoch 46/70
=====

--- Training Member 0 (Batch size: 256) ---

built data in 1.6141953468322754 seconds

LR changed during epoch: 3.15e-04 -> 3.09e-04

total runtime to train this model was 25.750680685043335 seconds

Hyperparameteres for model 0 at epoch 46

lr: 0.00035996240070477407

weight_decay: 0.34234005784372074

drop_path: 0.25668365729351295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2861337661743164 seconds
Loss: 0.6962

Train Accuracy: 75.36%

Test Accuracy: 74.39%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.642972707748413 seconds

LR changed during epoch: 2.88e-04 -> 2.86e-04

total runtime to train this model was 25.645159482955933 seconds

Hyperparameteres for model 1 at epoch 46
lr: 0.0002917661696515262

weight_decay: 0.49727262108778647

drop_path: 0.3098434224489126

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2753617763519287 seconds

Loss: 0.6698

Train Accuracy: 76.25%

Test Accuracy: 74.81%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.8121531009674072 seconds

LR changed during epoch: 1.51e-04 -> 1.41e-04

total runtime to train this model was 25.457893133163452 seconds

Hyperparameteres for model 2 at epoch 46

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.2851128578186035 seconds

Loss: 0.5197

Train Accuracy: 81.60%

Test Accuracy: 77.18%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.6637752056121826 seconds

LR changed during epoch: 2.30e-04 -> 2.27e-04

total runtime to train this model was 26.063611268997192 seconds

Hyperparameteres for model 3 at epoch 46

lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2756903171539307 seconds

Loss: 0.6359

Train Accuracy: 77.64%

Test Accuracy: 75.00%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.620591402053833 seconds
LR changed during epoch: 3.81e-07 -> 7.51e-05
total runtime to train this model was 25.897233963012695 seconds
Hyperparameteres for model 4 at epoch 46
lr: 0.00037335173739611965

weight_decay: 0.5

drop_path: 0.15607098779143497

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3241846561431885 seconds

Loss: 0.4956

Train Accuracy: 82.26%

Test Accuracy: 78.33%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 46 Summary:

=====
Time: 150.94s (Avg member: 30.19s)

Population Mean Accuracy: 75.94%

Best Member Accuracy: 78.33%

Mean Batch Size: 256

Mean Learning Rate: 3.47e-04

Mean Weight Decay: 0.370

=====
Epoch 47/70

=====
--- Training Member 0 (Batch size: 256) ---
built data in 1.6390659809112549 seconds
LR changed during epoch: 3.09e-04 -> 3.03e-04
total runtime to train this model was 25.690141439437866 seconds
Hyperparameteres for model 0 at epoch 47
lr: 0.00035996240070477407

weight_decay: 0.34234005784372074

drop_path: 0.25668365729351295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.299086332321167 seconds

Loss: 0.6913

Train Accuracy: 75.68%

Test Accuracy: 75.60%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6185963153839111 seconds
LR changed during epoch: 2.86e-04 -> 2.84e-04
total runtime to train this model was 25.81798267364502 seconds
Hyperparameteres for model 1 at epoch 47
lr: 0.0002917661696515262

weight_decay: 0.49727262108778647

drop_path: 0.3098434224489126

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4542641639709473 seconds
Loss: 0.6688
Train Accuracy: 76.29%
Test Accuracy: 74.57%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.8432824611663818 seconds
LR changed during epoch: 1.41e-04 -> 1.30e-04
total runtime to train this model was 25.044049501419067 seconds
Hyperparameteres for model 2 at epoch 47
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.304610252380371 seconds
Loss: 0.5037
Train Accuracy: 82.08%
Test Accuracy: 77.91%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6081702709197998 seconds
LR changed during epoch: 2.27e-04 -> 2.24e-04
total runtime to train this model was 26.055461883544922 seconds
Hyperparameteres for model 3 at epoch 47
lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.295233726501465 seconds

Loss: 0.6328

Train Accuracy: 77.68%

Test Accuracy: 75.71%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.6366870403289795 seconds

LR changed during epoch: 7.51e-05 -> 1.50e-04

total runtime to train this model was 25.654468536376953 seconds

Hyperparameteres for model 4 at epoch 47

lr: 0.00037335173739611965

weight_decay: 0.5

drop_path: 0.15607098779143497

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2741663455963135 seconds

Loss: 0.5045

Train Accuracy: 82.08%

Test Accuracy: 77.89%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 47 Summary:

=====
Time: 150.50s (Avg member: 30.10s)

Population Mean Accuracy: 76.34%

Best Member Accuracy: 77.91%

Mean Batch Size: 256

Mean Learning Rate: 3.47e-04

Mean Weight Decay: 0.370
=====

Epoch 48/70
=====

--- Training Member 0 (Batch size: 256) ---

built data in 1.6293227672576904 seconds

LR changed during epoch: 3.03e-04 -> 2.96e-04

total runtime to train this model was 25.228957891464233 seconds

Hyperparameteres for model 0 at epoch 48

lr: 0.00035996240070477407

weight_decay: 0.34234005784372074

drop_path: 0.25668365729351295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.246060371398926 seconds

Loss: 0.6795
Train Accuracy: 76.08%
Test Accuracy: 75.13%
Google Drive already mounted.
Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.7319202423095703 seconds
LR changed during epoch: 2.84e-04 -> 2.81e-04
total runtime to train this model was 25.55046010017395 seconds
Hyperparameteres for model 1 at epoch 48
lr: 0.0002917661696515262

weight_decay: 0.49727262108778647

drop_path: 0.3098434224489126

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.827306032180786 seconds

Loss: 0.6727
Train Accuracy: 76.07%
Test Accuracy: 74.53%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.7576849460601807 seconds
LR changed during epoch: 1.30e-04 -> 1.20e-04
total runtime to train this model was 24.765527486801147 seconds
Hyperparameteres for model 2 at epoch 48
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.0247585773468018 seconds

Loss: 0.4907
Train Accuracy: 82.62%
Test Accuracy: 77.80%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.643777847290039 seconds
LR changed during epoch: 2.24e-04 -> 2.21e-04
total runtime to train this model was 26.143467903137207 seconds
Hyperparameteres for model 3 at epoch 48
lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2584056854248047 seconds

Loss: 0.6292

Train Accuracy: 77.74%

Test Accuracy: 75.73%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.6002938747406006 seconds

LR changed during epoch: 1.50e-04 -> 2.24e-04

total runtime to train this model was 25.275620460510254 seconds

Hyperparameteres for model 4 at epoch 48

lr: 0.00037335173739611965

weight_decay: 0.5

drop_path: 0.15607098779143497

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2713613510131836 seconds

Loss: 0.5307

Train Accuracy: 81.25%

Test Accuracy: 76.97%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 48 Summary:

=====
Time: 149.20s (Avg member: 29.84s)

Population Mean Accuracy: 76.03%

Best Member Accuracy: 77.80%

Mean Batch Size: 256

Mean Learning Rate: 3.47e-04

Mean Weight Decay: 0.370
=====

Epoch 49/70
=====

--- Training Member 0 (Batch size: 256) ---

built data in 1.5956594944000244 seconds

LR changed during epoch: 2.96e-04 -> 2.89e-04

total runtime to train this model was 25.31310772895813 seconds

Hyperparameteres for model 0 at epoch 49

lr: 0.00035996240070477407

weight_decay: 0.34234005784372074

drop_path: 0.25668365729351295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2316226959228516 seconds
Loss: 0.6745

Train Accuracy: 75.91%

Test Accuracy: 74.76%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6142852306365967 seconds
LR changed during epoch: 2.81e-04 -> 2.78e-04
total runtime to train this model was 25.31380581855774 seconds
Hyperparameteres for model 1 at epoch 49
lr: 0.0002917661696515262

weight_decay: 0.49727262108778647

drop_path: 0.3098434224489126

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4216573238372803 seconds
Loss: 0.6722

Train Accuracy: 76.14%

Test Accuracy: 75.15%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.8147549629211426 seconds
LR changed during epoch: 1.20e-04 -> 1.11e-04
total runtime to train this model was 24.616929531097412 seconds
Hyperparameteres for model 2 at epoch 49
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.2420473098754883 seconds
Loss: 0.4758

Train Accuracy: 83.32%

Test Accuracy: 78.18%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.5908243656158447 seconds
LR changed during epoch: 2.21e-04 -> 2.17e-04
total runtime to train this model was 25.33749508857727 seconds
Hyperparameteres for model 3 at epoch 49

lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2432806491851807 seconds

Loss: 0.6218

Train Accuracy: 78.00%

Test Accuracy: 75.71%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.6510825157165527 seconds

LR changed during epoch: 2.24e-04 -> 2.99e-04

total runtime to train this model was 25.450744152069092 seconds

Hyperparameteres for model 4 at epoch 49

lr: 0.00037335173739611965

weight_decay: 0.5

drop_path: 0.15607098779143497

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2471399307250977 seconds

Loss: 0.5765

Train Accuracy: 79.55%

Test Accuracy: 75.61%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 49 Summary:

=====
Time: 147.97s (Avg member: 29.59s)

Population Mean Accuracy: 75.88%

Best Member Accuracy: 78.18%

Mean Batch Size: 256

Mean Learning Rate: 3.47e-04

Mean Weight Decay: 0.370
=====

Epoch 50/70
=====

--- Training Member 0 (Batch size: 256) ---

built data in 1.5896461009979248 seconds

LR changed during epoch: 2.89e-04 -> 2.82e-04

total runtime to train this model was 25.272146463394165 seconds

Hyperparameteres for model 0 at epoch 50

lr: 0.00035996240070477407

weight_decay: 0.34234005784372074

drop_path: 0.25668365729351295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2242493629455566 seconds

Loss: 0.6657

Train Accuracy: 76.51%

Test Accuracy: 74.26%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.5780322551727295 seconds

LR changed during epoch: 2.78e-04 -> 2.75e-04

total runtime to train this model was 25.227558851242065 seconds

Hyperparameteres for model 1 at epoch 50

lr: 0.0002917661696515262

weight_decay: 0.49727262108778647

drop_path: 0.3098434224489126

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.1862294673919678 seconds

Loss: 0.6710

Train Accuracy: 76.26%

Test Accuracy: 75.52%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.7205042839050293 seconds

LR changed during epoch: 1.11e-04 -> 1.01e-04

total runtime to train this model was 24.701247930526733 seconds

Hyperparameteres for model 2 at epoch 50

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.8358731269836426 seconds

Loss: 0.4671

Train Accuracy: 83.46%

Test Accuracy: 78.22%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.7882370948791504 seconds
LR changed during epoch: 2.17e-04 -> 2.14e-04
total runtime to train this model was 24.65831160545349 seconds
Hyperparameteres for model 3 at epoch 50
lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.0012500286102295 seconds

Loss: 0.6170

Train Accuracy: 78.18%

Test Accuracy: 76.12%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.596221685409546 seconds
LR changed during epoch: 2.99e-04 -> 3.73e-04
total runtime to train this model was 25.727583169937134 seconds
Hyperparameteres for model 4 at epoch 50
lr: 0.00037335173739611965

weight_decay: 0.5

drop_path: 0.15607098779143497

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2290265560150146 seconds

Loss: 0.6112

Train Accuracy: 78.13%

Test Accuracy: 75.00%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

--- Population Update (Epoch 50) ---

=== PBT Exploit & Explore ===

Top performers: [78.22]

Bottom performers: [74.26]

Member 0: lr changed from 0.00035996240070477407 to 0.0004192019286653853

Member 0: weight_decay changed from 0.34234005784372074 to 0.3069949647772656

Member 0: drop_path changed from 0.25668365729351295 to 0.16446627111480136

Member 0 copied from 2

LR=4.19e-04, WD=0.307, DropPath=0.164, Warmup=5 epochs, Batch=256

=====
Epoch 50 Summary:

=====
Time: 147.58s (Avg member: 29.51s)

Population Mean Accuracy: 75.82%

Best Member Accuracy: 78.22%
Mean Batch Size: 256
Mean Learning Rate: 3.59e-04
Mean Weight Decay: 0.363

=====
Epoch 51/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.6290316581726074 seconds
LR changed during epoch: 4.28e-07 -> 8.43e-05
total runtime to train this model was 25.266485691070557 seconds
Hyperparameteres for model 0 at epoch 51
lr: 0.0004192019286653853

weight_decay: 0.3069949647772656

drop_path: 0.16446627111480136

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2321605682373047 seconds
Loss: 0.4588

Train Accuracy: 83.56%

Test Accuracy: 78.64%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.584623098373413 seconds
LR changed during epoch: 2.75e-04 -> 2.72e-04
total runtime to train this model was 25.08446431159973 seconds
Hyperparameteres for model 1 at epoch 51
lr: 0.0002917661696515262

weight_decay: 0.49727262108778647

drop_path: 0.3098434224489126

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.1837949752807617 seconds
Loss: 0.6617

Train Accuracy: 76.67%

Test Accuracy: 75.27%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6000871658325195 seconds
LR changed during epoch: 1.01e-04 -> 9.23e-05
total runtime to train this model was 25.341569662094116 seconds
Hyperparameteres for model 2 at epoch 51
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.27778697013855 seconds

Loss: 0.4574

Train Accuracy: 83.74%

Test Accuracy: 78.12%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.7448582649230957 seconds

LR changed during epoch: 2.14e-04 -> 2.10e-04

total runtime to train this model was 24.52388834953308 seconds

Hyperparameteres for model 3 at epoch 51

lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.23561692237854 seconds

Loss: 0.6098

Train Accuracy: 78.61%

Test Accuracy: 75.34%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.6370313167572021 seconds

LR changed during epoch: 3.73e-04 -> 3.73e-04

total runtime to train this model was 25.304286003112793 seconds

Hyperparameteres for model 4 at epoch 51

lr: 0.00037335173739611965

weight_decay: 0.5

drop_path: 0.15607098779143497

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.488637924194336 seconds

Loss: 0.6309

Train Accuracy: 77.79%

Test Accuracy: 74.77%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 51 Summary:
=====

Time: 147.47s (Avg member: 29.49s)
Population Mean Accuracy: 76.43%
Best Member Accuracy: 78.64%
Mean Batch Size: 256
Mean Learning Rate: 3.59e-04
Mean Weight Decay: 0.363

=====
Epoch 52/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.6340758800506592 seconds
LR changed during epoch: 8.43e-05 -> 1.68e-04
total runtime to train this model was 25.4981906414032 seconds
Hyperparameteres for model 0 at epoch 52
lr: 0.0004192019286653853

weight_decay: 0.3069949647772656

drop_path: 0.16446627111480136

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2502834796905518 seconds
Loss: 0.4831

Train Accuracy: 82.75%

Test Accuracy: 78.15%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.5996625423431396 seconds
LR changed during epoch: 2.72e-04 -> 2.68e-04
total runtime to train this model was 25.50159478187561 seconds
Hyperparameteres for model 1 at epoch 52
lr: 0.0002917661696515262

weight_decay: 0.49727262108778647

drop_path: 0.3098434224489126

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.1953623294830322 seconds
Loss: 0.6672

Train Accuracy: 76.64%

Test Accuracy: 75.33%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.5995900630950928 seconds

LR changed during epoch: 9.23e-05 -> 8.35e-05
total runtime to train this model was 25.396318674087524 seconds
Hyperparameteres for model 2 at epoch 52
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2342443466186523 seconds

Loss: 0.4468

Train Accuracy: 84.19%

Test Accuracy: 78.28%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.6893489360809326 seconds

LR changed during epoch: 2.10e-04 -> 2.05e-04

total runtime to train this model was 25.02496337890625 seconds

Hyperparameteres for model 3 at epoch 52

lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.855886697769165 seconds

Loss: 0.6107

Train Accuracy: 78.46%

Test Accuracy: 76.38%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.7089738845825195 seconds

LR changed during epoch: 3.73e-04 -> 3.72e-04

total runtime to train this model was 24.844919681549072 seconds

Hyperparameteres for model 4 at epoch 52

lr: 0.00037335173739611965

weight_decay: 0.5

drop_path: 0.15607098779143497

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9685583114624023 seconds

Loss: 0.6429

Train Accuracy: 77.07%

Test Accuracy: 75.17%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 52 Summary:
=====

Time: 148.24s (Avg member: 29.65s)

Population Mean Accuracy: 76.66%

Best Member Accuracy: 78.28%

Mean Batch Size: 256

Mean Learning Rate: 3.59e-04

Mean Weight Decay: 0.363

=====

Epoch 53/70
=====

--- Training Member 0 (Batch size: 256) ---

built data in 1.6390039920806885 seconds

LR changed during epoch: 1.68e-04 -> 2.52e-04

total runtime to train this model was 25.552875995635986 seconds

Hyperparameteres for model 0 at epoch 53

lr: 0.0004192019286653853

weight_decay: 0.3069949647772656

drop_path: 0.16446627111480136

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2613933086395264 seconds

Loss: 0.5200

Train Accuracy: 81.44%

Test Accuracy: 77.58%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.597466230392456 seconds

LR changed during epoch: 2.68e-04 -> 2.64e-04

total runtime to train this model was 25.49916100502014 seconds

Hyperparameteres for model 1 at epoch 53

lr: 0.0002917661696515262

weight_decay: 0.49727262108778647

drop_path: 0.3098434224489126

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.275019645690918 seconds

Loss: 0.6633

Train Accuracy: 76.62%

Test Accuracy: 74.82%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.6298375129699707 seconds

LR changed during epoch: $8.35e-05 \rightarrow 7.51e-05$

total runtime to train this model was 25.31356430053711 seconds

Hyperparameteres for model 2 at epoch 53

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.252864360809326 seconds

Loss: 0.4321

Train Accuracy: 84.67%

Test Accuracy: 78.61%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.6546885967254639 seconds

LR changed during epoch: $2.05e-04 \rightarrow 2.01e-04$

total runtime to train this model was 25.158296585083008 seconds

Hyperparameteres for model 3 at epoch 53

lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5505473613739014 seconds

Loss: 0.6005

Train Accuracy: 78.79%

Test Accuracy: 76.01%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.789149522781372 seconds

LR changed during epoch: $3.72e-04 \rightarrow 3.71e-04$

total runtime to train this model was 24.584962844848633 seconds

Hyperparameteres for model 4 at epoch 53

lr: 0.00037335173739611965

weight_decay: 0.5

drop_path: 0.15607098779143497

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.1675896644592285 seconds

Loss: 0.6479

Train Accuracy: 76.90%

Test Accuracy: 75.51%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 53 Summary:
=====

Time: 148.16s (Avg member: 29.63s)

Population Mean Accuracy: 76.51%

Best Member Accuracy: 78.61%

Mean Batch Size: 256

Mean Learning Rate: 3.59e-04

Mean Weight Decay: 0.363

=====
Epoch 54/70
=====

--- Training Member 0 (Batch size: 256) ---

built data in 1.6019504070281982 seconds

LR changed during epoch: 2.52e-04 -> 3.36e-04

total runtime to train this model was 25.423041343688965 seconds

Hyperparameteres for model 0 at epoch 54

lr: 0.0004192019286653853

weight_decay: 0.3069949647772656

drop_path: 0.16446627111480136

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2397634983062744 seconds

Loss: 0.5731

Train Accuracy: 79.61%

Test Accuracy: 76.10%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.618051528930664 seconds

LR changed during epoch: 2.64e-04 -> 2.60e-04

total runtime to train this model was 25.385591506958008 seconds

Hyperparameteres for model 1 at epoch 54

lr: 0.0002917661696515262

weight_decay: 0.49727262108778647

drop_path: 0.3098434224489126

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2742578983306885 seconds

Loss: 0.6556

Train Accuracy: 76.88%

Test Accuracy: 75.41%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.60933256149292 seconds

LR changed during epoch: 7.51e-05 -> 6.71e-05

total runtime to train this model was 25.42525815963745 seconds

Hyperparameteres for model 2 at epoch 54

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.221231460571289 seconds

Loss: 0.4241

Train Accuracy: 84.94%

Test Accuracy: 78.33%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.6171674728393555 seconds

LR changed during epoch: 2.01e-04 -> 1.96e-04

total runtime to train this model was 25.339664459228516 seconds

Hyperparameteres for model 3 at epoch 54

lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2030253410339355 seconds

Loss: 0.6055

Train Accuracy: 78.70%

Test Accuracy: 75.87%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.7363195419311523 seconds

LR changed during epoch: 3.71e-04 -> 3.70e-04

total runtime to train this model was 24.56614589691162 seconds

Hyperparameteres for model 4 at epoch 54

lr: 0.00037335173739611965

weight_decay: 0.5

drop_path: 0.15607098779143497

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.0941271781921387 seconds

Loss: 0.6503

Train Accuracy: 76.94%

Test Accuracy: 74.93%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 54 Summary:
=====

Time: 147.63s (Avg member: 29.53s)

Population Mean Accuracy: 76.13%

Best Member Accuracy: 78.33%

Mean Batch Size: 256

Mean Learning Rate: 3.59e-04

Mean Weight Decay: 0.363

=====

Epoch 55/70
=====

--- Training Member 0 (Batch size: 256) ---

built data in 1.7186987400054932 seconds

LR changed during epoch: 3.36e-04 -> 4.19e-04

total runtime to train this model was 25.342167615890503 seconds

Hyperparameteres for model 0 at epoch 55

lr: 0.0004192019286653853

weight_decay: 0.3069949647772656

drop_path: 0.16446627111480136

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.490091323852539 seconds

Loss: 0.6064

Train Accuracy: 78.35%

Test Accuracy: 75.22%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.5833981037139893 seconds

LR changed during epoch: 2.60e-04 -> 2.55e-04

total runtime to train this model was 25.54114317893982 seconds

Hyperparameteres for model 1 at epoch 55

lr: 0.0002917661696515262

weight_decay: 0.49727262108778647

drop_path: 0.3098434224489126

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.1762778759002686 seconds

Loss: 0.6515

Train Accuracy: 76.99%

Test Accuracy: 75.74%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.6258931159973145 seconds

LR changed during epoch: 6.71e-05 -> 5.94e-05

total runtime to train this model was 25.257445573806763 seconds

Hyperparameteres for model 2 at epoch 55

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.211324453353882 seconds

Loss: 0.4138

Train Accuracy: 85.32%

Test Accuracy: 79.02%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.6153113842010498 seconds

LR changed during epoch: 1.96e-04 -> 1.92e-04

total runtime to train this model was 25.03647470474243 seconds

Hyperparameteres for model 3 at epoch 55

lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.202981948852539 seconds

Loss: 0.5858

Train Accuracy: 79.37%

Test Accuracy: 75.86%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.660703420639038 seconds

LR changed during epoch: 3.70e-04 -> 3.68e-04

total runtime to train this model was 25.969651460647583 seconds

Hyperparameteres for model 4 at epoch 55

lr: 0.00037335173739611965

weight_decay: 0.5

drop_path: 0.15607098779143497

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9273788928985596 seconds

Loss: 0.6534

Train Accuracy: 76.87%

Test Accuracy: 72.33%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

--- Population Update (Epoch 55) ---

=== PBT Exploit & Explore ===

Top performers: [79.02]

Bottom performers: [72.33]

Member 4: lr changed from 0.00037335173739611965 to 0.0004596857325746771

Member 4: weight_decay changed from 0.5 to 0.43691229865660836

Member 4: drop_path changed from 0.15607098779143497 to 0.1980296121392649

Member 4 copied from 2

LR=4.60e-04, WD=0.437, DropPath=0.198, Warmup=5 epochs, Batch=256

=====
Epoch 55 Summary:

Time: 148.58s (Avg member: 29.71s)

Population Mean Accuracy: 75.63%

Best Member Accuracy: 79.02%

Mean Batch Size: 256

Mean Learning Rate: 3.76e-04

Mean Weight Decay: 0.350
=====

Epoch 56/70
=====

--- Training Member 0 (Batch size: 256) ---

built data in 1.7665562629699707 seconds

LR changed during epoch: 4.19e-04 -> 4.19e-04

total runtime to train this model was 25.097564697265625 seconds

Hyperparameteres for model 0 at epoch 56

lr: 0.0004192019286653853

weight_decay: 0.3069949647772656

drop_path: 0.16446627111480136

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9287261962890625 seconds

Loss: 0.6381
Train Accuracy: 77.30%
Test Accuracy: 75.10%
Google Drive already mounted.
Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6203315258026123 seconds
LR changed during epoch: 2.55e-04 -> 2.50e-04
total runtime to train this model was 25.660163640975952 seconds
Hyperparameteres for model 1 at epoch 56
lr: 0.0002917661696515262

weight_decay: 0.49727262108778647

drop_path: 0.3098434224489126

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.3438265323638916 seconds

Loss: 0.6549
Train Accuracy: 76.96%
Test Accuracy: 75.26%
Google Drive already mounted.
Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6257238388061523 seconds
LR changed during epoch: 5.94e-05 -> 5.22e-05
total runtime to train this model was 25.56068992614746 seconds
Hyperparameteres for model 2 at epoch 56
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.258815288543701 seconds

Loss: 0.4033
Train Accuracy: 85.81%
Test Accuracy: 78.78%
Google Drive already mounted.
Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6347038745880127 seconds
LR changed during epoch: 1.92e-04 -> 1.87e-04
total runtime to train this model was 25.39361333847046 seconds
Hyperparameteres for model 3 at epoch 56
lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.368652820587158 seconds

Loss: 0.5834

Train Accuracy: 79.53%

Test Accuracy: 76.33%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.673335075378418 seconds

LR changed during epoch: 4.69e-07 -> 9.24e-05

total runtime to train this model was 25.158894300460815 seconds

Hyperparameteres for model 4 at epoch 56

lr: 0.0004596857325746771

weight_decay: 0.43691229865660836

drop_path: 0.1980296121392649

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.7215850353240967 seconds

Loss: 0.4131

Train Accuracy: 85.38%

Test Accuracy: 78.79%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 56 Summary:

Time: 149.06s (Avg member: 29.81s)

Population Mean Accuracy: 76.85%

Best Member Accuracy: 78.79%

Mean Batch Size: 256

Mean Learning Rate: 3.76e-04

Mean Weight Decay: 0.350
=====

Epoch 57/70
=====

--- Training Member 0 (Batch size: 256) ---

built data in 1.7807180881500244 seconds

LR changed during epoch: 4.19e-04 -> 4.18e-04

total runtime to train this model was 24.66592764854431 seconds

Hyperparameteres for model 0 at epoch 57

lr: 0.0004192019286653853

weight_decay: 0.3069949647772656

drop_path: 0.16446627111480136

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.2052338123321533 seconds
Loss: 0.6341

Train Accuracy: 77.37%

Test Accuracy: 75.13%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6147594451904297 seconds
LR changed during epoch: 2.50e-04 -> 2.45e-04
total runtime to train this model was 25.52867603302002 seconds
Hyperparameteres for model 1 at epoch 57
lr: 0.0002917661696515262

weight_decay: 0.49727262108778647

drop_path: 0.3098434224489126

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.307965040206909 seconds
Loss: 0.6482

Train Accuracy: 77.15%

Test Accuracy: 76.20%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6356558799743652 seconds
LR changed during epoch: 5.22e-05 -> 4.54e-05
total runtime to train this model was 25.595757484436035 seconds
Hyperparameteres for model 2 at epoch 57
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.284459114074707 seconds
Loss: 0.3944

Train Accuracy: 86.00%

Test Accuracy: 78.83%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6392912864685059 seconds
LR changed during epoch: 1.87e-04 -> 1.82e-04
total runtime to train this model was 25.502726078033447 seconds
Hyperparameteres for model 3 at epoch 57

lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.211705446243286 seconds

Loss: 0.5748

Train Accuracy: 79.77%

Test Accuracy: 76.24%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.6352174282073975 seconds

LR changed during epoch: 9.24e-05 -> 1.84e-04

total runtime to train this model was 25.55032753944397 seconds

Hyperparameteres for model 4 at epoch 57

lr: 0.0004596857325746771

weight_decay: 0.43691229865660836

drop_path: 0.1980296121392649

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.527308940887451 seconds

Loss: 0.4502

Train Accuracy: 83.91%

Test Accuracy: 77.95%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 57 Summary:

=====
Time: 148.91s (Avg member: 29.78s)

Population Mean Accuracy: 76.87%

Best Member Accuracy: 78.83%

Mean Batch Size: 256

Mean Learning Rate: 3.76e-04

Mean Weight Decay: 0.350
=====

Epoch 58/70
=====

--- Training Member 0 (Batch size: 256) ---

built data in 1.8283302783966064 seconds

LR changed during epoch: 4.18e-04 -> 4.17e-04

total runtime to train this model was 24.92593288421631 seconds

Hyperparameteres for model 0 at epoch 58

lr: 0.0004192019286653853

weight_decay: 0.3069949647772656

drop_path: 0.16446627111480136

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.2117502689361572 seconds

Loss: 0.6318

Train Accuracy: 77.56%

Test Accuracy: 75.39%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.6110618114471436 seconds

LR changed during epoch: 2.45e-04 -> 2.40e-04

total runtime to train this model was 25.64818787574768 seconds

Hyperparameteres for model 1 at epoch 58

lr: 0.0002917661696515262

weight_decay: 0.49727262108778647

drop_path: 0.3098434224489126

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.295668840408325 seconds

Loss: 0.6441

Train Accuracy: 77.42%

Test Accuracy: 75.62%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.656034231185913 seconds

LR changed during epoch: 4.54e-05 -> 3.90e-05

total runtime to train this model was 25.57688546180725 seconds

Hyperparameteres for model 2 at epoch 58

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2816333770751953 seconds

Loss: 0.3842

Train Accuracy: 86.29%

Test Accuracy: 78.96%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6171443462371826 seconds
LR changed during epoch: 1.82e-04 -> 1.76e-04
total runtime to train this model was 25.67805528640747 seconds
Hyperparameteres for model 3 at epoch 58
lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2298195362091064 seconds

Loss: 0.5738

Train Accuracy: 79.81%

Test Accuracy: 77.39%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.6354646682739258 seconds
LR changed during epoch: 1.84e-04 -> 2.76e-04
total runtime to train this model was 25.685561180114746 seconds
Hyperparameteres for model 4 at epoch 58
lr: 0.0004596857325746771

weight_decay: 0.43691229865660836

drop_path: 0.1980296121392649

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.7089669704437256 seconds

Loss: 0.4969

Train Accuracy: 82.34%

Test Accuracy: 77.31%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 58 Summary:

=====
Time: 149.85s (Avg member: 29.97s)

Population Mean Accuracy: 76.93%

Best Member Accuracy: 78.96%

Mean Batch Size: 256

Mean Learning Rate: 3.76e-04

Mean Weight Decay: 0.350

=====
Epoch 59/70

=====
--- Training Member 0 (Batch size: 256) ---
built data in 1.7393653392791748 seconds

LR changed during epoch: 4.17e-04 -> 4.15e-04
total runtime to train this model was 25.26664090156555 seconds
Hyperparameteres for model 0 at epoch 59
lr: 0.0004192019286653853

weight_decay: 0.3069949647772656

drop_path: 0.16446627111480136

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.0585389137268066 seconds

Loss: 0.6344

Train Accuracy: 77.44%

Test Accuracy: 75.16%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.6184566020965576 seconds

LR changed during epoch: 2.40e-04 -> 2.35e-04

total runtime to train this model was 25.68553113937378 seconds

Hyperparameteres for model 1 at epoch 59

lr: 0.0002917661696515262

weight_decay: 0.49727262108778647

drop_path: 0.3098434224489126

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2314112186431885 seconds

Loss: 0.6413

Train Accuracy: 77.31%

Test Accuracy: 75.99%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.637171983718872 seconds

LR changed during epoch: 3.90e-05 -> 3.30e-05

total runtime to train this model was 25.379754781723022 seconds

Hyperparameteres for model 2 at epoch 59

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.1675472259521484 seconds

Loss: 0.3819

Train Accuracy: 86.43%
Test Accuracy: 78.98%
Google Drive already mounted.
Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6477444171905518 seconds
LR changed during epoch: 1.76e-04 -> 1.71e-04
total runtime to train this model was 25.42922830581665 seconds
Hyperparameteres for model 3 at epoch 59
lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2375452518463135 seconds

Loss: 0.5665

Train Accuracy: 80.11%

Test Accuracy: 77.18%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.6919190883636475 seconds
LR changed during epoch: 2.76e-04 -> 3.68e-04
total runtime to train this model was 24.93105387687683 seconds
Hyperparameteres for model 4 at epoch 59
lr: 0.0004596857325746771

weight_decay: 0.43691229865660836

drop_path: 0.1980296121392649

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5710885524749756 seconds

Loss: 0.5566

Train Accuracy: 80.24%

Test Accuracy: 76.45%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 59 Summary:

=====
Time: 148.56s (Avg member: 29.71s)

Population Mean Accuracy: 76.75%

Best Member Accuracy: 78.98%

Mean Batch Size: 256

Mean Learning Rate: 3.76e-04

Mean Weight Decay: 0.350
=====

Epoch 60/70

=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.7317254543304443 seconds
LR changed during epoch: 4.15e-04 -> 4.13e-04
total runtime to train this model was 24.574735641479492 seconds
Hyperparameteres for model 0 at epoch 60
lr: 0.0004192019286653853

weight_decay: 0.3069949647772656

drop_path: 0.16446627111480136

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.1372272968292236 seconds

Loss: 0.6320

Train Accuracy: 77.33%

Test Accuracy: 75.53%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6233704090118408 seconds
LR changed during epoch: 2.35e-04 -> 2.29e-04
total runtime to train this model was 25.67424178123474 seconds
Hyperparameteres for model 1 at epoch 60
lr: 0.0002917661696515262

weight_decay: 0.49727262108778647

drop_path: 0.3098434224489126

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.309384346008301 seconds

Loss: 0.6394

Train Accuracy: 77.61%

Test Accuracy: 75.45%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6082801818847656 seconds
LR changed during epoch: 3.30e-05 -> 2.76e-05
total runtime to train this model was 25.643333911895752 seconds
Hyperparameteres for model 2 at epoch 60
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2178165912628174 seconds

Loss: 0.3736

Train Accuracy: 86.58%

Test Accuracy: 79.26%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.6107354164123535 seconds

LR changed during epoch: 1.71e-04 -> 1.66e-04

total runtime to train this model was 25.307131052017212 seconds

Hyperparameteres for model 3 at epoch 60

lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.235549211502075 seconds

Loss: 0.5588

Train Accuracy: 80.42%

Test Accuracy: 77.76%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.593888521194458 seconds

LR changed during epoch: 3.68e-04 -> 4.60e-04

total runtime to train this model was 25.42756676673889 seconds

Hyperparameteres for model 4 at epoch 60

lr: 0.0004596857325746771

weight_decay: 0.43691229865660836

drop_path: 0.1980296121392649

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2999658584594727 seconds

Loss: 0.6033

Train Accuracy: 78.43%

Test Accuracy: 75.94%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

--- Population Update (Epoch 60) ---

=== PBT Exploit & Explore ===

Top performers: [79.26]

Bottom performers: [75.45]

Member 1: lr changed from 0.0002917661696515262 to 0.00028809369933882557

Member 1: weight_decay changed from 0.49727262108778647 to 0.5
Member 1: drop_path changed from 0.3098434224489126 to 0.3446755770395824
Member 1 copied from 2
LR=2.88e-04, WD=0.500, DropPath=0.345, Warmup=5 epochs, Batch=256

=====
Epoch 60 Summary:
=====

Time: 148.27s (Avg member: 29.65s)
Population Mean Accuracy: 76.79%
Best Member Accuracy: 79.26%
Mean Batch Size: 256
Mean Learning Rate: 3.75e-04
Mean Weight Decay: 0.351

=====
Epoch 61/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.7632005214691162 seconds
LR changed during epoch: 4.13e-04 -> 4.10e-04
total runtime to train this model was 26.016996145248413 seconds
Hyperparameteres for model 0 at epoch 61
lr: 0.0004192019286653853

weight_decay: 0.3069949647772656

drop_path: 0.16446627111480136

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.19006085395813 seconds
Loss: 0.6347

Train Accuracy: 77.52%

Test Accuracy: 75.24%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6189491748809814 seconds
LR changed during epoch: 2.94e-07 -> 5.79e-05
total runtime to train this model was 25.63029670715332 seconds
Hyperparameteres for model 1 at epoch 61
lr: 0.00028809369933882557

weight_decay: 0.5

drop_path: 0.3446755770395824

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2901670932769775 seconds

Loss: 0.3906

Train Accuracy: 86.03%

Test Accuracy: 79.34%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.6036205291748047 seconds

LR changed during epoch: 2.76e-05 -> 2.26e-05

total runtime to train this model was 25.282569885253906 seconds

Hyperparameteres for model 2 at epoch 61

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2899818420410156 seconds

Loss: 0.3648

Train Accuracy: 86.97%

Test Accuracy: 79.26%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.640742540359497 seconds

LR changed during epoch: 1.66e-04 -> 1.60e-04

total runtime to train this model was 25.63997530937195 seconds

Hyperparameteres for model 3 at epoch 61

lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2795116901397705 seconds

Loss: 0.5567

Train Accuracy: 80.41%

Test Accuracy: 77.48%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.6201965808868408 seconds

LR changed during epoch: 4.60e-04 -> 4.59e-04

total runtime to train this model was 25.59656262397766 seconds

Hyperparameteres for model 4 at epoch 61

lr: 0.0004596857325746771

weight_decay: 0.43691229865660836

drop_path: 0.1980296121392649

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.257666826248169 seconds

Loss: 0.6371

Train Accuracy: 77.18%

Test Accuracy: 75.54%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 61 Summary:
=====

Time: 149.98s (Avg member: 30.00s)

Population Mean Accuracy: 77.37%

Best Member Accuracy: 79.34%

Mean Batch Size: 256

Mean Learning Rate: 3.75e-04

Mean Weight Decay: 0.351

=====
Epoch 62/70
=====

--- Training Member 0 (Batch size: 256) ---

built data in 1.7719860076904297 seconds

LR changed during epoch: 4.10e-04 -> 4.07e-04

total runtime to train this model was 24.543023824691772 seconds

Hyperparameteres for model 0 at epoch 62

lr: 0.0004192019286653853

weight_decay: 0.3069949647772656

drop_path: 0.16446627111480136

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.4157156944274902 seconds

Loss: 0.6285

Train Accuracy: 77.66%

Test Accuracy: 74.99%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.5920562744140625 seconds

LR changed during epoch: 5.79e-05 -> 1.16e-04

total runtime to train this model was 25.651153802871704 seconds

Hyperparameteres for model 1 at epoch 62

lr: 0.00028809369933882557

weight_decay: 0.5

drop_path: 0.3446755770395824

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3146543502807617 seconds

Loss: 0.4209

Train Accuracy: 85.12%

Test Accuracy: 78.79%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.6297025680541992 seconds

LR changed during epoch: 2.26e-05 -> 1.81e-05

total runtime to train this model was 25.514251470565796 seconds

Hyperparameteres for model 2 at epoch 62

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2673099040985107 seconds

Loss: 0.3589

Train Accuracy: 87.16%

Test Accuracy: 79.08%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.6144256591796875 seconds

LR changed during epoch: 1.60e-04 -> 1.55e-04

total runtime to train this model was 25.8387393951416 seconds

Hyperparameteres for model 3 at epoch 62

lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.278191089630127 seconds

Loss: 0.5480

Train Accuracy: 80.75%

Test Accuracy: 77.06%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.5987298488616943 seconds

LR changed during epoch: 4.59e-04 -> 4.59e-04

total runtime to train this model was 25.659145832061768 seconds

Hyperparameteres for model 4 at epoch 62

lr: 0.0004596857325746771

weight_decay: 0.43691229865660836

drop_path: 0.1980296121392649

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3515398502349854 seconds

Loss: 0.6465

Train Accuracy: 77.14%

Test Accuracy: 73.78%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 62 Summary:
=====

Time: 149.27s (Avg member: 29.85s)

Population Mean Accuracy: 76.74%

Best Member Accuracy: 79.08%

Mean Batch Size: 256

Mean Learning Rate: 3.75e-04

Mean Weight Decay: 0.351

=====
Epoch 63/70
=====

--- Training Member 0 (Batch size: 256) ---

built data in 1.727097988128662 seconds

LR changed during epoch: 4.07e-04 -> 4.04e-04

total runtime to train this model was 25.07664966583252 seconds

Hyperparameteres for model 0 at epoch 63

lr: 0.0004192019286653853

weight_decay: 0.3069949647772656

drop_path: 0.16446627111480136

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9812347888946533 seconds

Loss: 0.6318

Train Accuracy: 77.55%

Test Accuracy: 75.87%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.7487461566925049 seconds

LR changed during epoch: 1.16e-04 -> 1.73e-04

total runtime to train this model was 25.335978984832764 seconds

Hyperparameteres for model 1 at epoch 63

lr: 0.00028809369933882557

weight_decay: 0.5

drop_path: 0.3446755770395824

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.8892667293548584 seconds

Loss: 0.4464

Train Accuracy: 84.18%

Test Accuracy: 78.43%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.6089322566986084 seconds

LR changed during epoch: 1.81e-05 -> 1.42e-05

total runtime to train this model was 25.69291925430298 seconds

Hyperparameteres for model 2 at epoch 63

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2894539833068848 seconds

Loss: 0.3581

Train Accuracy: 87.23%

Test Accuracy: 79.28%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.6158978939056396 seconds

LR changed during epoch: 1.55e-04 -> 1.49e-04

total runtime to train this model was 25.729642868041992 seconds

Hyperparameteres for model 3 at epoch 63

lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.1933443546295166 seconds

Loss: 0.5413

Train Accuracy: 81.06%

Test Accuracy: 77.49%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.6332852840423584 seconds

LR changed during epoch: 4.59e-04 -> 4.57e-04

total runtime to train this model was 25.34273362159729 seconds

Hyperparameteres for model 4 at epoch 63

lr: 0.0004596857325746771

weight_decay: 0.43691229865660836

drop_path: 0.1980296121392649

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2370100021362305 seconds

Loss: 0.6495

Train Accuracy: 76.89%

Test Accuracy: 75.41%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 63 Summary:

=====
Time: 149.35s (Avg member: 29.87s)

Population Mean Accuracy: 77.30%

Best Member Accuracy: 79.28%

Mean Batch Size: 256

Mean Learning Rate: 3.75e-04

Mean Weight Decay: 0.351

=====
Epoch 64/70

--- Training Member 0 (Batch size: 256) ---

built data in 1.6415555477142334 seconds

LR changed during epoch: 4.04e-04 -> 4.00e-04

total runtime to train this model was 25.200812339782715 seconds

Hyperparameteres for model 0 at epoch 64

lr: 0.0004192019286653853

weight_decay: 0.3069949647772656

drop_path: 0.16446627111480136

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5672762393951416 seconds

Loss: 0.6209

Train Accuracy: 78.01%

Test Accuracy: 75.49%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.8256559371948242 seconds

LR changed during epoch: 1.73e-04 -> 2.31e-04

total runtime to train this model was 24.603870153427124 seconds

Hyperparameteres for model 1 at epoch 64

lr: 0.00028809369933882557

weight_decay: 0.5

drop_path: 0.3446755770395824

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.2555150985717773 seconds

Loss: 0.4912

Train Accuracy: 82.48%

Test Accuracy: 77.48%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.6015126705169678 seconds

LR changed during epoch: 1.42e-05 -> 1.07e-05

total runtime to train this model was 26.066446781158447 seconds

Hyperparameteres for model 2 at epoch 64

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.329392194747925 seconds

Loss: 0.3530

Train Accuracy: 87.49%

Test Accuracy: 79.29%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.6290371417999268 seconds

LR changed during epoch: 1.49e-04 -> 1.43e-04

total runtime to train this model was 25.95762848854065 seconds

Hyperparameteres for model 3 at epoch 64

lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.285841226577759 seconds

Loss: 0.5383

Train Accuracy: 81.17%

Test Accuracy: 77.46%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.6089060306549072 seconds
LR changed during epoch: 4.57e-04 -> 4.55e-04
total runtime to train this model was 25.71599578857422 seconds
Hyperparameteres for model 4 at epoch 64
lr: 0.0004596857325746771

weight_decay: 0.43691229865660836

drop_path: 0.1980296121392649

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.3461966514587402 seconds
Loss: 0.6582
Train Accuracy: 76.83%
Test Accuracy: 75.73%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 64 Summary:

=====
Time: 149.84s (Avg member: 29.97s)
Population Mean Accuracy: 77.09%
Best Member Accuracy: 79.29%
Mean Batch Size: 256
Mean Learning Rate: 3.75e-04
Mean Weight Decay: 0.351

=====
Epoch 65/70

=====
--- Training Member 0 (Batch size: 256) ---
built data in 1.617222547531128 seconds
LR changed during epoch: 4.00e-04 -> 3.95e-04
total runtime to train this model was 25.467233657836914 seconds
Hyperparameteres for model 0 at epoch 65
lr: 0.0004192019286653853

weight_decay: 0.3069949647772656

drop_path: 0.16446627111480136

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.3529417514801025 seconds
Loss: 0.6216
Train Accuracy: 77.95%
Test Accuracy: 76.04%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.7427351474761963 seconds
LR changed during epoch: 2.31e-04 -> 2.88e-04
total runtime to train this model was 24.288334608078003 seconds
Hyperparameteres for model 1 at epoch 65
lr: 0.00028809369933882557

weight_decay: 0.5

drop_path: 0.3446755770395824

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.230015993118286 seconds

Loss: 0.5250

Train Accuracy: 81.19%

Test Accuracy: 76.96%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6773769855499268 seconds
LR changed during epoch: 1.07e-05 -> 7.74e-06
total runtime to train this model was 25.28682780265808 seconds
Hyperparameteres for model 2 at epoch 65
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4314026832580566 seconds

Loss: 0.3504

Train Accuracy: 87.42%

Test Accuracy: 79.20%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6009161472320557 seconds
LR changed during epoch: 1.43e-04 -> 1.37e-04
total runtime to train this model was 25.400182723999023 seconds
Hyperparameteres for model 3 at epoch 65
lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.334327459335327 seconds

Loss: 0.5321

Train Accuracy: 81.33%

Test Accuracy: 77.79%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.6187665462493896 seconds

LR changed during epoch: 4.55e-04 -> 4.53e-04

total runtime to train this model was 25.759299278259277 seconds

Hyperparameteres for model 4 at epoch 65

lr: 0.0004596857325746771

weight_decay: 0.43691229865660836

drop_path: 0.1980296121392649

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.1953768730163574 seconds

Loss: 0.6621

Train Accuracy: 76.67%

Test Accuracy: 72.99%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

--- Population Update (Epoch 65) ---

=== PBT Exploit & Explore ===

Top performers: [79.2]

Bottom performers: [72.99]

Member 4: lr changed from 0.0004596857325746771 to 0.00032915427221629813

Member 4: weight_decay changed from 0.43691229865660836 to 0.4038313148125787

Member 4: drop_path changed from 0.1980296121392649 to 0.12407076159181914

Member 4 copied from 2

LR=3.29e-04, WD=0.404, DropPath=0.124, Warmup=5 epochs, Batch=256

=====
Epoch 65 Summary:

=====
Time: 148.29s (Avg member: 29.65s)

Population Mean Accuracy: 76.60%

Best Member Accuracy: 79.20%

Mean Batch Size: 256

Mean Learning Rate: 3.49e-04

Mean Weight Decay: 0.344
=====

Epoch 66/70
=====

--- Training Member 0 (Batch size: 256) ---

built data in 1.5964062213897705 seconds

LR changed during epoch: 3.95e-04 -> 3.90e-04

total runtime to train this model was 25.289937019348145 seconds

Hyperparameteres for model 0 at epoch 66

lr: 0.0004192019286653853

weight_decay: 0.3069949647772656

drop_path: 0.16446627111480136

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2387378215789795 seconds

Loss: 0.6148

Train Accuracy: 78.33%

Test Accuracy: 75.53%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---

built data in 1.7180495262145996 seconds

LR changed during epoch: 2.88e-04 -> 2.88e-04

total runtime to train this model was 25.301767349243164 seconds

Hyperparameteres for model 1 at epoch 66

lr: 0.00028809369933882557

weight_decay: 0.5

drop_path: 0.3446755770395824

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.2212331295013428 seconds

Loss: 0.5512

Train Accuracy: 80.45%

Test Accuracy: 76.64%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---

built data in 1.7234842777252197 seconds

LR changed during epoch: 7.74e-06 -> 5.32e-06

total runtime to train this model was 25.30445098876953 seconds

Hyperparameteres for model 2 at epoch 66

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.6290371417999268 seconds

Loss: 0.3488

Train Accuracy: 87.62%

Test Accuracy: 79.35%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6750378608703613 seconds
LR changed during epoch: 1.37e-04 -> 1.31e-04
total runtime to train this model was 25.89114284515381 seconds
Hyperparameteres for model 3 at epoch 66
lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.171143054962158 seconds

Loss: 0.5148

Train Accuracy: 81.72%

Test Accuracy: 77.69%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.6035916805267334 seconds
LR changed during epoch: 3.36e-07 -> 6.62e-05
total runtime to train this model was 25.60220956802368 seconds
Hyperparameteres for model 4 at epoch 66
lr: 0.00032915427221629813

weight_decay: 0.4038313148125787

drop_path: 0.12407076159181914

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.219588279724121 seconds

Loss: 0.3690

Train Accuracy: 86.99%

Test Accuracy: 79.22%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 66 Summary:

=====
Time: 149.38s (Avg member: 29.88s)

Population Mean Accuracy: 77.69%

Best Member Accuracy: 79.35%

Mean Batch Size: 256

Mean Learning Rate: 3.49e-04

Mean Weight Decay: 0.344

=====
Epoch 67/70

=====
--- Training Member 0 (Batch size: 256) ---
built data in 1.6865036487579346 seconds

LR changed during epoch: 3.90e-04 -> 3.85e-04
total runtime to train this model was 25.417775630950928 seconds
Hyperparameteres for model 0 at epoch 67
lr: 0.0004192019286653853

weight_decay: 0.3069949647772656

drop_path: 0.16446627111480136

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2273125648498535 seconds
Loss: 0.6086

Train Accuracy: 78.33%

Test Accuracy: 75.67%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6552963256835938 seconds
LR changed during epoch: 2.88e-04 -> 2.87e-04
total runtime to train this model was 25.206361293792725 seconds
Hyperparameteres for model 1 at epoch 67
lr: 0.00028809369933882557

weight_decay: 0.5

drop_path: 0.3446755770395824

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5420405864715576 seconds
Loss: 0.5576

Train Accuracy: 80.13%

Test Accuracy: 76.68%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.7621071338653564 seconds
LR changed during epoch: 5.32e-06 -> 3.43e-06
total runtime to train this model was 24.69681453704834 seconds
Hyperparameteres for model 2 at epoch 67
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.206165313720703 seconds
Loss: 0.3471

Train Accuracy: 87.63%
Test Accuracy: 79.31%
Google Drive already mounted.
Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.5933833122253418 seconds
LR changed during epoch: 1.31e-04 -> 1.25e-04
total runtime to train this model was 25.389938831329346 seconds
Hyperparameteres for model 3 at epoch 67
lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.242302417755127 seconds

Loss: 0.5114

Train Accuracy: 81.92%

Test Accuracy: 78.22%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.6475498676300049 seconds
LR changed during epoch: 6.62e-05 -> 1.32e-04
total runtime to train this model was 25.555182456970215 seconds
Hyperparameteres for model 4 at epoch 67
lr: 0.00032915427221629813

weight_decay: 0.4038313148125787

drop_path: 0.12407076159181914

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3061392307281494 seconds

Loss: 0.4013

Train Accuracy: 85.60%

Test Accuracy: 78.60%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 67 Summary:

=====
Time: 148.38s (Avg member: 29.68s)

Population Mean Accuracy: 77.70%

Best Member Accuracy: 79.31%

Mean Batch Size: 256

Mean Learning Rate: 3.49e-04

Mean Weight Decay: 0.344
=====

Epoch 68/70

=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.6177594661712646 seconds
LR changed during epoch: 3.85e-04 -> 3.79e-04
total runtime to train this model was 26.152817487716675 seconds
Hyperparameteres for model 0 at epoch 68
lr: 0.0004192019286653853

weight_decay: 0.3069949647772656

drop_path: 0.16446627111480136

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.261950731277466 seconds

Loss: 0.6065

Train Accuracy: 78.44%

Test Accuracy: 76.46%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6047687530517578 seconds
LR changed during epoch: 2.87e-04 -> 2.87e-04
total runtime to train this model was 25.733326196670532 seconds
Hyperparameteres for model 1 at epoch 68
lr: 0.00028809369933882557

weight_decay: 0.5

drop_path: 0.3446755770395824

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4874188899993896 seconds

Loss: 0.5675

Train Accuracy: 79.64%

Test Accuracy: 76.52%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.7740740776062012 seconds
LR changed during epoch: 3.43e-06 -> 2.08e-06
total runtime to train this model was 25.19217324256897 seconds
Hyperparameteres for model 2 at epoch 68
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.0320827960968018 seconds
Loss: 0.3427

Train Accuracy: 87.73%

Test Accuracy: 79.26%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.5944912433624268 seconds
LR changed during epoch: 1.25e-04 -> 1.20e-04
total runtime to train this model was 25.678980112075806 seconds
Hyperparameteres for model 3 at epoch 68
lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.1950221061706543 seconds
Loss: 0.5066

Train Accuracy: 82.32%

Test Accuracy: 78.09%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.590872049331665 seconds
LR changed during epoch: 1.32e-04 -> 1.98e-04
total runtime to train this model was 25.771889209747314 seconds
Hyperparameteres for model 4 at epoch 68
lr: 0.00032915427221629813

weight_decay: 0.4038313148125787

drop_path: 0.12407076159181914

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.325483798980713 seconds
Loss: 0.4400

Train Accuracy: 84.25%

Test Accuracy: 77.47%

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Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 68 Summary:

=====
Time: 150.21s (Avg member: 30.04s)
Population Mean Accuracy: 77.56%
Best Member Accuracy: 79.26%

Mean Batch Size: 256
Mean Learning Rate: 3.49e-04
Mean Weight Decay: 0.344

=====
Epoch 69/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.5861563682556152 seconds
LR changed during epoch: 3.79e-04 -> 3.73e-04
total runtime to train this model was 25.523138999938965 seconds
Hyperparameteres for model 0 at epoch 69
lr: 0.0004192019286653853

weight_decay: 0.3069949647772656

drop_path: 0.16446627111480136

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2606186866760254 seconds
Loss: 0.5966

Train Accuracy: 78.95%

Test Accuracy: 75.96%

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Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.601985216140747 seconds
LR changed during epoch: 2.87e-04 -> 2.85e-04
total runtime to train this model was 25.59713053703308 seconds
Hyperparameteres for model 1 at epoch 69
lr: 0.00028809369933882557

weight_decay: 0.5

drop_path: 0.3446755770395824

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.2649779319763184 seconds
Loss: 0.5708

Train Accuracy: 79.76%

Test Accuracy: 76.39%

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Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.9080946445465088 seconds
LR changed during epoch: 2.08e-06 -> 1.27e-06
total runtime to train this model was 24.330950260162354 seconds
Hyperparameteres for model 2 at epoch 69
lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.4790031909942627 seconds

Loss: 0.3420

Train Accuracy: 87.98%

Test Accuracy: 79.46%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.6153666973114014 seconds

LR changed during epoch: 1.20e-04 -> 1.14e-04

total runtime to train this model was 25.509299278259277 seconds

Hyperparameteres for model 3 at epoch 69

lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.221473455429077 seconds

Loss: 0.4966

Train Accuracy: 82.49%

Test Accuracy: 77.95%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.673079013824463 seconds

LR changed during epoch: 1.98e-04 -> 2.64e-04

total runtime to train this model was 25.525962591171265 seconds

Hyperparameteres for model 4 at epoch 69

lr: 0.00032915427221629813

weight_decay: 0.4038313148125787

drop_path: 0.12407076159181914

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.25565767288208 seconds

Loss: 0.4828

Train Accuracy: 82.66%

Test Accuracy: 76.77%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====

Epoch 69 Summary:

```
=====
Time: 148.54s (Avg member: 29.71s)
Population Mean Accuracy: 77.31%
Best Member Accuracy: 79.46%
Mean Batch Size: 256
Mean Learning Rate: 3.49e-04
Mean Weight Decay: 0.344
=====
```

Epoch 70/70

```
=====
--- Training Member 0 (Batch size: 256) ---
built data in 1.6021695137023926 seconds
LR changed during epoch: 3.73e-04 -> 3.67e-04
total runtime to train this model was 25.399497032165527 seconds
Hyperparameteres for model 0 at epoch 70
lr: 0.0004192019286653853
```

weight_decay: 0.3069949647772656

drop_path: 0.16446627111480136

warmup_epochs: 5

batch_size: 256

```
_____ end of hyperparam printing _____
evaluation in 2.3446507453918457 seconds
Loss: 0.5969
```

Train Accuracy: 78.98%

Test Accuracy: 77.31%

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Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

```
--- Training Member 1 (Batch size: 256) ---
built data in 1.6162848472595215 seconds
LR changed during epoch: 2.85e-04 -> 2.84e-04
total runtime to train this model was 25.53445339202881 seconds
Hyperparameteres for model 1 at epoch 70
lr: 0.00028809369933882557
```

weight_decay: 0.5

drop_path: 0.3446755770395824

warmup_epochs: 5

batch_size: 256

```
_____ end of hyperparam printing _____
evaluation in 2.376296043395996 seconds
Loss: 0.5702
```

Train Accuracy: 79.76%

Test Accuracy: 76.80%

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Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_38042.pt

```
--- Training Member 2 (Batch size: 256) ---
built data in 1.7536005973815918 seconds
LR changed during epoch: 1.27e-06 -> 1.00e-06
```

total runtime to train this model was 24.59127902984619 seconds

Hyperparameteres for model 2 at epoch 70

lr: 0.00046580972075259094

weight_decay: 0.08322155840047196

drop_path: 0.21704259365986278

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.2345635890960693 seconds

Loss: 0.3463

Train Accuracy: 87.67%

Test Accuracy: 79.40%

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Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---

built data in 1.69635009765625 seconds

LR changed during epoch: 1.14e-04 -> 1.08e-04

total runtime to train this model was 25.284122467041016 seconds

Hyperparameteres for model 3 at epoch 70

lr: 0.0002441756069039894

weight_decay: 0.427017108353093

drop_path: 0.27804434317397886

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.6302661895751953 seconds

Loss: 0.4945

Train Accuracy: 82.74%

Test Accuracy: 78.75%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---

built data in 1.6132714748382568 seconds

LR changed during epoch: 2.64e-04 -> 3.29e-04

total runtime to train this model was 25.80181121826172 seconds

Hyperparameteres for model 4 at epoch 70

lr: 0.00032915427221629813

weight_decay: 0.4038313148125787

drop_path: 0.12407076159181914

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3417582511901855 seconds

Loss: 0.5310

Train Accuracy: 80.93%

Test Accuracy: 74.92%
Google Drive already mounted.
Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

--- Population Update (Epoch 70) ---

=== PBT Exploit & Explore ===

Top performers: [79.4]

Bottom performers: [74.92]

Member 4: lr changed from 0.00032915427221629813 to 0.0002843052649597151

Member 4: weight_decay changed from 0.4038313148125787 to 0.32946300137199935

Member 4: drop_path changed from 0.12407076159181914 to 0.19293406428963156

Member 4 copied from 2

LR=2.84e-04, WD=0.329, DropPath=0.193, Warmup=5 epochs, Batch=256

=====
Epoch 70 Summary:
=====

Time: 149.12s (Avg member: 29.82s)

Population Mean Accuracy: 77.44%

Best Member Accuracy: 79.40%

Mean Batch Size: 256

Mean Learning Rate: 3.40e-04

Mean Weight Decay: 0.329

=====
PBT TRAINING COMPLETE
=====

Best member: 2

Best accuracy: 79.40%

Best hyperparameters:

Learning Rate: 4.66e-04

Weight Decay: 0.083

Drop Path Rate: 0.217

Warmup Epochs: 5

Batch Size: 256

=====
PBT TIMING REPORT
=====

Overall Statistics	Value
Total runtime	10315.09s (171.92 min)
Number of epochs	70
Number of population updates	14

Epoch Timing	Value
Average epoch time	147.35s
Std epoch time	3.90s
Min epoch time	142.84s (epoch 31)
Max epoch time	173.62s (epoch 1)

Member Training Timing	Value
Average member time per epoch	29.47s
Total training time	10314.26s
Training efficiency	100.0%

Population Update Timing	Value
--------------------------	-------

Average update time 0.02s
Total update time 0.21s
Update efficiency 0.0%

Batch Size Analysis	Avg Time	Samples
=====		
Batch size 256	29.47s	350

Per-Member Statistics	Avg Time	Total Time
=====		
Member 0	29.56s	2068.88s
Member 1	29.46s	2062.46s
Member 2	29.45s	2061.51s
Member 3	29.42s	2059.24s
Member 4	29.46s	2062.17s

=====

Experiment completed successfully!
Results saved to: pbt_vit_timing_results.png
Detailed timing saved to: pbt_detailed_timing.png