

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 already mounted.

Using device: cuda

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/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) ---

built data in 1.576493740081787 seconds

/tmp/ipython-input-228132033.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: 1.78e-07 -> 3.51e-05

total runtime to train this model was 26.470427751541138 seconds

Hyperparameteres for model 0 at epoch 1

lr: 0.00017473127310585154

weight_decay: 0.061266106049719646

drop_path: 0.003725775441671897

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.435899019241333 seconds

Loss: 2.0314

Train Accuracy: 24.43%

Test Accuracy: 29.81%

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Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.7058703899383545 seconds

LR changed during epoch: 6.96e-07 -> 1.37e-04

total runtime to train this model was 26.723219394683838 seconds

Hyperparameteres for model 1 at epoch 1

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.969330072402954 seconds

Loss: 1.9782

Train Accuracy: 26.45%

Test Accuracy: 32.03%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.8595483303070068 seconds

LR changed during epoch: 2.85e-07 -> 5.62e-05

total runtime to train this model was 28.18943166732788 seconds

Hyperparameteres for model 2 at epoch 1

lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9589877128601074 seconds

Loss: 2.0209

Train Accuracy: 24.84%

Test Accuracy: 28.85%

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Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.6493463516235352 seconds

LR changed during epoch: 2.84e-07 -> 5.60e-05

total runtime to train this model was 28.35213875770569 seconds

Hyperparameteres for model 3 at epoch 1

lr: 0.00027866855897964196

weight_decay: 0.12005905479695693

drop_path: 0.18516687037287166

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9581713676452637 seconds

Loss: 2.0303

Train Accuracy: 24.06%

Test Accuracy: 31.08%

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Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.8446156978607178 seconds

LR changed during epoch: 2.95e-07 -> 5.81e-05

total runtime to train this model was 28.655975818634033 seconds

Hyperparameteres for model 4 at epoch 1

lr: 0.00028916943317366104

weight_decay: 0.1350832051875679

drop_path: 0.1203142691941336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.223897933959961 seconds

Loss: 2.0196

Train Accuracy: 24.41%

Test Accuracy: 29.67%

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Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

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

Time: 163.09s (Avg member: 32.62s)

Population Mean Accuracy: 30.29%

Best Member Accuracy: 32.03%

Mean Batch Size: 256

Mean Learning Rate: 3.41e-04

Mean Weight Decay: 0.106

=====

Epoch 2/70
=====

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

built data in 1.6363332271575928 seconds

LR changed during epoch: 3.51e-05 -> 7.01e-05

total runtime to train this model was 26.980736255645752 seconds

Hyperparameteres for model 0 at epoch 2

lr: 0.00017473127310585154

weight_decay: 0.061266106049719646

drop_path: 0.003725775441671897

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.461520195007324 seconds

Loss: 1.8248

Train Accuracy: 32.56%

Test Accuracy: 35.01%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.5776302814483643 seconds

LR changed during epoch: 1.37e-04 -> 2.74e-04

total runtime to train this model was 26.875802516937256 seconds

Hyperparameteres for model 1 at epoch 2

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4603679180145264 seconds

Loss: 1.7682

Train Accuracy: 33.77%

Test Accuracy: 33.54%

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Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.6331672668457031 seconds

LR changed during epoch: 5.62e-05 -> 1.12e-04

total runtime to train this model was 26.85246968269348 seconds

Hyperparameteres for model 2 at epoch 2

lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.6913392543792725 seconds

Loss: 1.8119

Train Accuracy: 32.79%

Test Accuracy: 33.67%

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Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.7324142456054688 seconds

LR changed during epoch: 5.60e-05 -> 1.12e-04

total runtime to train this model was 27.16681981086731 seconds

Hyperparameteres for model 3 at epoch 2

lr: 0.00027866855897964196

weight_decay: 0.12005905479695693

drop_path: 0.18516687037287166

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.515153408050537 seconds

Loss: 1.8224

Train Accuracy: 32.55%

Test Accuracy: 33.60%

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Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.6506385803222656 seconds

LR changed during epoch: 5.81e-05 -> 1.16e-04

total runtime to train this model was 27.015218019485474 seconds

Hyperparameteres for model 4 at epoch 2

lr: 0.00028916943317366104

weight_decay: 0.1350832051875679

drop_path: 0.1203142691941336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.394428253173828 seconds

Loss: 1.8156

Train Accuracy: 32.54%

Test Accuracy: 34.73%

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Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 2 Summary:

=====
Time: 157.88s (Avg member: 31.58s)

Population Mean Accuracy: 34.11%

Best Member Accuracy: 35.01%

Mean Batch Size: 256

Mean Learning Rate: 3.41e-04

Mean Weight Decay: 0.106

=====
Epoch 3/70

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

built data in 1.6637909412384033 seconds

LR changed during epoch: 7.01e-05 -> 1.05e-04

total runtime to train this model was 26.683252334594727 seconds

Hyperparameteres for model 0 at epoch 3

lr: 0.00017473127310585154

weight_decay: 0.061266106049719646

drop_path: 0.003725775441671897

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.487985610961914 seconds

Loss: 1.7282

Train Accuracy: 35.91%

Test Accuracy: 37.03%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.8577027320861816 seconds

LR changed during epoch: 2.74e-04 -> 4.10e-04

total runtime to train this model was 26.340532302856445 seconds

Hyperparameteres for model 1 at epoch 3

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.2083723545074463 seconds

Loss: 1.6378

Train Accuracy: 39.44%

Test Accuracy: 42.49%

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Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.6214208602905273 seconds

LR changed during epoch: 1.12e-04 -> 1.68e-04

total runtime to train this model was 27.244285821914673 seconds

Hyperparameteres for model 2 at epoch 3

lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4979894161224365 seconds

Loss: 1.7025

Train Accuracy: 36.76%

Test Accuracy: 36.76%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.6507463455200195 seconds

LR changed during epoch: 1.12e-04 -> 1.67e-04

total runtime to train this model was 26.855409860610962 seconds

Hyperparameteres for model 3 at epoch 3

lr: 0.00027866855897964196

weight_decay: 0.12005905479695693

drop_path: 0.18516687037287166

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.401470899581909 seconds

Loss: 1.7045

Train Accuracy: 36.77%

Test Accuracy: 38.08%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.6950328350067139 seconds
LR changed during epoch: 1.16e-04 -> 1.74e-04
total runtime to train this model was 26.860795497894287 seconds
Hyperparameteres for model 4 at epoch 3
lr: 0.00028916943317366104

weight_decay: 0.1350832051875679

drop_path: 0.1203142691941336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.819528818130493 seconds

Loss: 1.6991

Train Accuracy: 37.06%

Test Accuracy: 39.97%

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Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

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Epoch 3 Summary:
=====

Time: 158.25s (Avg member: 31.65s)

Population Mean Accuracy: 38.87%

Best Member Accuracy: 42.49%

Mean Batch Size: 256

Mean Learning Rate: 3.41e-04

Mean Weight Decay: 0.106

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Epoch 4/70
=====

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

built data in 1.6626036167144775 seconds

LR changed during epoch: 1.05e-04 -> 1.40e-04

total runtime to train this model was 26.863465309143066 seconds

Hyperparameteres for model 0 at epoch 4

lr: 0.00017473127310585154

weight_decay: 0.061266106049719646

drop_path: 0.003725775441671897

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4560675621032715 seconds

Loss: 1.6458

Train Accuracy: 39.24%

Test Accuracy: 40.72%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.6134488582611084 seconds

LR changed during epoch: 4.10e-04 -> 5.47e-04

total runtime to train this model was 27.005242586135864 seconds

Hyperparameteres for model 1 at epoch 4

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.450981616973877 seconds

Loss: 1.5378

Train Accuracy: 43.88%

Test Accuracy: 46.36%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.6298682689666748 seconds

LR changed during epoch: 1.68e-04 -> 2.24e-04

total runtime to train this model was 27.08251118659973 seconds

Hyperparameteres for model 2 at epoch 4

lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.8357479572296143 seconds

Loss: 1.5977

Train Accuracy: 41.24%

Test Accuracy: 45.01%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.7543816566467285 seconds

LR changed during epoch: 1.67e-04 -> 2.23e-04

total runtime to train this model was 26.205461978912354 seconds

Hyperparameteres for model 3 at epoch 4

lr: 0.00027866855897964196

weight_decay: 0.12005905479695693

drop_path: 0.18516687037287166

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.1937172412872314 seconds

Loss: 1.5963

Train Accuracy: 41.23%

Test Accuracy: 42.74%
Google Drive already mounted.
Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.6590571403503418 seconds
LR changed during epoch: 1.74e-04 -> 2.32e-04
total runtime to train this model was 27.4972882270813 seconds
Hyperparameteres for model 4 at epoch 4
lr: 0.00028916943317366104

weight_decay: 0.1350832051875679

drop_path: 0.1203142691941336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.3954710960388184 seconds

Loss: 1.5825
Train Accuracy: 42.07%
Test Accuracy: 43.02%
Google Drive already mounted.
Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 4 Summary:
=====

Time: 157.58s (Avg member: 31.52s)
Population Mean Accuracy: 43.57%
Best Member Accuracy: 46.36%
Mean Batch Size: 256
Mean Learning Rate: 3.41e-04
Mean Weight Decay: 0.106

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.6172876358032227 seconds
LR changed during epoch: 1.40e-04 -> 1.75e-04
total runtime to train this model was 26.80528473854065 seconds
Hyperparameteres for model 0 at epoch 5
lr: 0.00017473127310585154

weight_decay: 0.061266106049719646

drop_path: 0.003725775441671897

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5204529762268066 seconds

Loss: 1.5402
Train Accuracy: 43.64%
Test Accuracy: 44.01%
Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6812138557434082 seconds
LR changed during epoch: 5.47e-04 -> 6.82e-04
total runtime to train this model was 26.176032543182373 seconds
Hyperparameteres for model 1 at epoch 5
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.3922297954559326 seconds
Loss: 1.4771
Train Accuracy: 46.31%
Test Accuracy: 45.60%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6931321620941162 seconds
LR changed during epoch: 2.24e-04 -> 2.80e-04
total runtime to train this model was 26.8061580657959 seconds
Hyperparameteres for model 2 at epoch 5
lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.421713352203369 seconds
Loss: 1.5003
Train Accuracy: 45.48%
Test Accuracy: 46.46%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6229896545410156 seconds
LR changed during epoch: 2.23e-04 -> 2.79e-04
total runtime to train this model was 26.890789270401 seconds
Hyperparameteres for model 3 at epoch 5
lr: 0.00027866855897964196

weight_decay: 0.12005905479695693

drop_path: 0.18516687037287166

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.520561695098877 seconds

Loss: 1.4974

Train Accuracy: 45.37%

Test Accuracy: 46.42%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.6234641075134277 seconds

LR changed during epoch: 2.32e-04 -> 2.89e-04

total runtime to train this model was 26.89166283607483 seconds

Hyperparameteres for model 4 at epoch 5

lr: 0.00028916943317366104

weight_decay: 0.1350832051875679

drop_path: 0.1203142691941336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.386087417602539 seconds

Loss: 1.4820

Train Accuracy: 46.03%

Test Accuracy: 47.46%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

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

=== PBT Exploit & Explore ===

Top performers: [47.46]

Bottom performers: [44.01]

Member 0: lr changed from 0.00017473127310585154 to 0.00025717285178367924

Member 0: weight_decay changed from 0.061266106049719646 to 0.0599227753704586

Member 0: drop_path changed from 0.003725775441671897 to 0.0

Member 0 copied from 4

LR=2.57e-04, WD=0.060, DropPath=0.000, Warmup=5 epochs, Batch=256

=====
Epoch 5 Summary:

=====
Time: 156.43s (Avg member: 31.28s)

Population Mean Accuracy: 45.99%

Best Member Accuracy: 47.46%

Mean Batch Size: 256

Mean Learning Rate: 3.57e-04

Mean Weight Decay: 0.106
=====

Epoch 6/70
=====

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

built data in 1.7979581356048584 seconds

LR changed during epoch: 2.62e-07 -> 5.17e-05

total runtime to train this model was 27.148473262786865 seconds

Hyperparameteres for model 0 at epoch 6

lr: 0.00025717285178367924

weight_decay: 0.0599227753704586

drop_path: 0.0

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.1429567337036133 seconds

Loss: 1.3508

Train Accuracy: 51.37%

Test Accuracy: 51.48%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.6633596420288086 seconds

LR changed during epoch: 6.82e-04 -> 6.82e-04

total runtime to train this model was 27.298930168151855 seconds

Hyperparameteres for model 1 at epoch 6

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5218570232391357 seconds

Loss: 1.4309

Train Accuracy: 48.24%

Test Accuracy: 49.77%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.6555545330047607 seconds

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

total runtime to train this model was 27.74789047241211 seconds

Hyperparameteres for model 2 at epoch 6

lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4645767211914062 seconds

Loss: 1.4188

Train Accuracy: 48.52%

Test Accuracy: 49.30%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.7754886150360107 seconds
LR changed during epoch: 2.79e-04 -> 2.79e-04
total runtime to train this model was 27.54756760597229 seconds
Hyperparameteres for model 3 at epoch 6
lr: 0.00027866855897964196

weight_decay: 0.12005905479695693

drop_path: 0.18516687037287166

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.305535316467285 seconds

Loss: 1.4303

Train Accuracy: 47.67%

Test Accuracy: 47.73%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.6453447341918945 seconds
LR changed during epoch: 2.89e-04 -> 2.89e-04
total runtime to train this model was 27.098710536956787 seconds
Hyperparameteres for model 4 at epoch 6
lr: 0.00028916943317366104

weight_decay: 0.1350832051875679

drop_path: 0.1203142691941336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5464184284210205 seconds

Loss: 1.4174

Train Accuracy: 48.59%

Test Accuracy: 49.72%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 6 Summary:

=====
Time: 160.60s (Avg member: 32.12s)
Population Mean Accuracy: 49.60%
Best Member Accuracy: 51.48%
Mean Batch Size: 256
Mean Learning Rate: 3.57e-04
Mean Weight Decay: 0.106

=====
Epoch 7/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.7269444465637207 seconds
LR changed during epoch: 5.17e-05 -> 1.03e-04
total runtime to train this model was 27.126232862472534 seconds
Hyperparameteres for model 0 at epoch 7
lr: 0.00025717285178367924

weight_decay: 0.0599227753704586

drop_path: 0.0

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5239756107330322 seconds

Loss: 1.3085

Train Accuracy: 52.70%

Test Accuracy: 52.33%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.7877585887908936 seconds
LR changed during epoch: 6.82e-04 -> 6.81e-04
total runtime to train this model was 27.030916452407837 seconds
Hyperparameteres for model 1 at epoch 7
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.598594903945923 seconds

Loss: 1.3651

Train Accuracy: 50.49%

Test Accuracy: 51.57%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.5942513942718506 seconds
LR changed during epoch: 2.80e-04 -> 2.79e-04
total runtime to train this model was 27.47420597076416 seconds
Hyperparameteres for model 2 at epoch 7
lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5455198287963867 seconds

Loss: 1.3532

Train Accuracy: 50.84%

Test Accuracy: 52.53%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.63387131690979 seconds

LR changed during epoch: 2.79e-04 -> 2.78e-04

total runtime to train this model was 27.486793756484985 seconds

Hyperparameteres for model 3 at epoch 7

lr: 0.00027866855897964196

weight_decay: 0.12005905479695693

drop_path: 0.18516687037287166

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4292964935302734 seconds

Loss: 1.3736

Train Accuracy: 50.23%

Test Accuracy: 51.52%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.6656603813171387 seconds

LR changed during epoch: 2.89e-04 -> 2.88e-04

total runtime to train this model was 27.284016370773315 seconds

Hyperparameteres for model 4 at epoch 7

lr: 0.00028916943317366104

weight_decay: 0.1350832051875679

drop_path: 0.1203142691941336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.50414776802063 seconds

Loss: 1.3440

Train Accuracy: 51.42%

Test Accuracy: 53.13%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 7 Summary:

=====
Time: 160.73s (Avg member: 32.15s)

Population Mean Accuracy: 52.22%

Best Member Accuracy: 53.13%

Mean Batch Size: 256

Mean Learning Rate: 3.57e-04

Mean Weight Decay: 0.106

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.6919214725494385 seconds
LR changed during epoch: 1.03e-04 -> 1.55e-04
total runtime to train this model was 27.210604190826416 seconds
Hyperparameteres for model 0 at epoch 8
lr: 0.00025717285178367924

weight_decay: 0.0599227753704586

drop_path: 0.0

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.502643585205078 seconds

Loss: 1.2968

Train Accuracy: 53.01%

Test Accuracy: 53.12%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.592846155166626 seconds
LR changed during epoch: 6.81e-04 -> 6.79e-04
total runtime to train this model was 26.922749757766724 seconds
Hyperparameteres for model 1 at epoch 8
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4592978954315186 seconds

Loss: 1.3215

Train Accuracy: 52.02%

Test Accuracy: 52.60%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.702486276626587 seconds
LR changed during epoch: 2.79e-04 -> 2.78e-04
total runtime to train this model was 26.80988574028015 seconds
Hyperparameteres for model 2 at epoch 8
lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.7286741733551025 seconds

Loss: 1.3087

Train Accuracy: 52.79%

Test Accuracy: 53.72%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.8316538333892822 seconds

LR changed during epoch: 2.78e-04 -> 2.77e-04

total runtime to train this model was 27.13606071472168 seconds

Hyperparameteres for model 3 at epoch 8

lr: 0.00027866855897964196

weight_decay: 0.12005905479695693

drop_path: 0.18516687037287166

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.8666224479675293 seconds

Loss: 1.3287

Train Accuracy: 51.97%

Test Accuracy: 53.67%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.6708908081054688 seconds

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

total runtime to train this model was 26.89622163772583 seconds

Hyperparameteres for model 4 at epoch 8

lr: 0.00028916943317366104

weight_decay: 0.1350832051875679

drop_path: 0.1203142691941336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.46589732170105 seconds

Loss: 1.3042

Train Accuracy: 52.84%

Test Accuracy: 53.74%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 8 Summary:

=====
Time: 157.73s (Avg member: 31.55s)

Population Mean Accuracy: 53.37%
Best Member Accuracy: 53.74%
Mean Batch Size: 256
Mean Learning Rate: 3.57e-04
Mean Weight Decay: 0.106

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.6280183792114258 seconds
LR changed during epoch: 1.55e-04 -> 2.06e-04
total runtime to train this model was 27.104288578033447 seconds
Hyperparameteres for model 0 at epoch 9
lr: 0.00025717285178367924

weight_decay: 0.0599227753704586

drop_path: 0.0

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5045859813690186 seconds
Loss: 1.2787

Train Accuracy: 53.68%

Test Accuracy: 53.64%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.7364673614501953 seconds
LR changed during epoch: 6.79e-04 -> 6.76e-04
total runtime to train this model was 26.25957417488098 seconds
Hyperparameteres for model 1 at epoch 9
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.722568988800049 seconds
Loss: 1.2681

Train Accuracy: 54.27%

Test Accuracy: 54.99%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6205170154571533 seconds
LR changed during epoch: 2.78e-04 -> 2.77e-04
total runtime to train this model was 26.899659872055054 seconds
Hyperparameteres for model 2 at epoch 9
lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4947509765625 seconds

Loss: 1.2587

Train Accuracy: 54.82%

Test Accuracy: 53.69%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.7168564796447754 seconds

LR changed during epoch: 2.77e-04 -> 2.76e-04

total runtime to train this model was 26.854040384292603 seconds

Hyperparameteres for model 3 at epoch 9

lr: 0.00027866855897964196

weight_decay: 0.12005905479695693

drop_path: 0.18516687037287166

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.432810068130493 seconds

Loss: 1.2987

Train Accuracy: 52.92%

Test Accuracy: 55.85%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.637540578842163 seconds

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

total runtime to train this model was 27.123861074447632 seconds

Hyperparameteres for model 4 at epoch 9

lr: 0.00028916943317366104

weight_decay: 0.1350832051875679

drop_path: 0.1203142691941336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.7329392433166504 seconds

Loss: 1.2601

Train Accuracy: 54.63%

Test Accuracy: 54.17%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

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

Time: 157.75s (Avg member: 31.55s)
Population Mean Accuracy: 54.47%
Best Member Accuracy: 55.85%
Mean Batch Size: 256
Mean Learning Rate: 3.57e-04
Mean Weight Decay: 0.106

=====
Epoch 10/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.820549726486206 seconds
LR changed during epoch: 2.06e-04 -> 2.57e-04
total runtime to train this model was 26.56567096710205 seconds
Hyperparameteres for model 0 at epoch 10
lr: 0.00025717285178367924

weight_decay: 0.0599227753704586

drop_path: 0.0

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.1765031814575195 seconds
Loss: 1.2676

Train Accuracy: 54.12%

Test Accuracy: 53.83%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6307940483093262 seconds
LR changed during epoch: 6.76e-04 -> 6.72e-04
total runtime to train this model was 27.563258171081543 seconds
Hyperparameteres for model 1 at epoch 10
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4800515174865723 seconds
Loss: 1.2245

Train Accuracy: 55.88%

Test Accuracy: 56.12%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.6365525722503662 seconds
LR changed during epoch: 2.77e-04 -> 2.76e-04
total runtime to train this model was 27.506930112838745 seconds
Hyperparameteres for model 2 at epoch 10
lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4799134731292725 seconds

Loss: 1.2225

Train Accuracy: 56.17%

Test Accuracy: 56.04%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.8189396858215332 seconds

LR changed during epoch: 2.76e-04 -> 2.75e-04

total runtime to train this model was 27.280999183654785 seconds

Hyperparameteres for model 3 at epoch 10

lr: 0.00027866855897964196

weight_decay: 0.12005905479695693

drop_path: 0.18516687037287166

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.2704062461853027 seconds

Loss: 1.2501

Train Accuracy: 54.80%

Test Accuracy: 55.71%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.6224784851074219 seconds

LR changed during epoch: 2.86e-04 -> 2.85e-04

total runtime to train this model was 26.844536066055298 seconds

Hyperparameteres for model 4 at epoch 10

lr: 0.00028916943317366104

weight_decay: 0.1350832051875679

drop_path: 0.1203142691941336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.406771421432495 seconds

Loss: 1.2199
Train Accuracy: 56.05%
Test Accuracy: 56.90%
Google Drive already mounted.
Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

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

=== PBT Exploit & Explore ===

Top performers: [56.9]

Bottom performers: [53.83]

Member 0: lr changed from 0.00025717285178367924 to 0.00021799997987342534

Member 0: weight_decay changed from 0.0599227753704586 to 0.04164903759145146

Member 0 copied from 4

LR=2.18e-04, WD=0.042, DropPath=0.000, Warmup=5 epochs, Batch=256

=====
Epoch 10 Summary:
=====

Time: 159.34s (Avg member: 31.86s)

Population Mean Accuracy: 55.72%

Best Member Accuracy: 56.90%

Mean Batch Size: 256

Mean Learning Rate: 3.50e-04

Mean Weight Decay: 0.102

=====
Epoch 11/70
=====

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

built data in 1.6097147464752197 seconds

LR changed during epoch: 2.22e-07 -> 4.38e-05

total runtime to train this model was 27.15125036239624 seconds

Hyperparameteres for model 0 at epoch 11

lr: 0.00021799997987342534

weight_decay: 0.04164903759145146

drop_path: 0.0

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.430319309234619 seconds

Loss: 1.1176

Train Accuracy: 59.90%

Test Accuracy: 59.94%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.6403520107269287 seconds

LR changed during epoch: 6.72e-04 -> 6.68e-04

total runtime to train this model was 26.735692262649536 seconds

Hyperparameteres for model 1 at epoch 11

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.165422201156616 seconds

Loss: 1.1858

Train Accuracy: 57.44%

Test Accuracy: 58.28%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.8171250820159912 seconds

LR changed during epoch: 2.76e-04 -> 2.74e-04

total runtime to train this model was 26.902244567871094 seconds

Hyperparameteres for model 2 at epoch 11

lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.421109199523926 seconds

Loss: 1.1885

Train Accuracy: 57.18%

Test Accuracy: 55.20%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.6376514434814453 seconds

LR changed during epoch: 2.75e-04 -> 2.73e-04

total runtime to train this model was 26.82991862297058 seconds

Hyperparameteres for model 3 at epoch 11

lr: 0.00027866855897964196

weight_decay: 0.12005905479695693

drop_path: 0.18516687037287166

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5456290245056152 seconds

Loss: 1.2274

Train Accuracy: 55.70%

Test Accuracy: 56.67%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.6109414100646973 seconds

LR changed during epoch: 2.85e-04 -> 2.83e-04
total runtime to train this model was 27.130249738693237 seconds
Hyperparameteres for model 4 at epoch 11
lr: 0.00028916943317366104

weight_decay: 0.1350832051875679

drop_path: 0.1203142691941336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.688091993331909 seconds

Loss: 1.1892

Train Accuracy: 57.46%

Test Accuracy: 56.26%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

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

Time: 157.65s (Avg member: 31.53s)

Population Mean Accuracy: 57.27%

Best Member Accuracy: 59.94%

Mean Batch Size: 256

Mean Learning Rate: 3.50e-04

Mean Weight Decay: 0.102

=====

Epoch 12/70
=====

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

built data in 1.728398084640503 seconds

LR changed during epoch: 4.38e-05 -> 8.74e-05

total runtime to train this model was 27.14194941520691 seconds

Hyperparameteres for model 0 at epoch 12

lr: 0.00021799997987342534

weight_decay: 0.04164903759145146

drop_path: 0.0

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.265606164932251 seconds

Loss: 1.0727

Train Accuracy: 61.67%

Test Accuracy: 61.11%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.6163504123687744 seconds

LR changed during epoch: 6.68e-04 -> 6.63e-04

total runtime to train this model was 27.28428030014038 seconds

Hyperparameteres for model 1 at epoch 12
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.483987331390381 seconds

Loss: 1.1412

Train Accuracy: 58.96%

Test Accuracy: 60.22%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.5937421321868896 seconds

LR changed during epoch: 2.74e-04 -> 2.72e-04

total runtime to train this model was 27.16022753715515 seconds

Hyperparameteres for model 2 at epoch 12

lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5499279499053955 seconds

Loss: 1.1529

Train Accuracy: 58.62%

Test Accuracy: 59.33%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.6762962341308594 seconds

LR changed during epoch: 2.73e-04 -> 2.71e-04

total runtime to train this model was 27.05852246284485 seconds

Hyperparameteres for model 3 at epoch 12

lr: 0.00027866855897964196

weight_decay: 0.12005905479695693

drop_path: 0.18516687037287166

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.7050161361694336 seconds

Loss: 1.1908

Train Accuracy: 57.22%

Test Accuracy: 57.93%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.5950305461883545 seconds
LR changed during epoch: 2.83e-04 -> 2.81e-04
total runtime to train this model was 27.03208899497986 seconds
Hyperparameteres for model 4 at epoch 12
lr: 0.00028916943317366104

weight_decay: 0.1350832051875679

drop_path: 0.1203142691941336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.621957540512085 seconds
Loss: 1.1601
Train Accuracy: 58.18%
Test Accuracy: 59.51%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

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

Time: 159.79s (Avg member: 31.96s)
Population Mean Accuracy: 59.62%
Best Member Accuracy: 61.11%
Mean Batch Size: 256
Mean Learning Rate: 3.50e-04
Mean Weight Decay: 0.102

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.7034344673156738 seconds
LR changed during epoch: 8.74e-05 -> 1.31e-04
total runtime to train this model was 27.37450885772705 seconds
Hyperparameteres for model 0 at epoch 13
lr: 0.00021799997987342534

weight_decay: 0.04164903759145146

drop_path: 0.0

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4701192378997803 seconds
Loss: 1.0798
Train Accuracy: 61.36%
Test Accuracy: 60.89%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.5830388069152832 seconds
LR changed during epoch: 6.63e-04 -> 6.57e-04
total runtime to train this model was 27.16253113746643 seconds
Hyperparameteres for model 1 at epoch 13
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5967020988464355 seconds
Loss: 1.0996

Train Accuracy: 60.56%

Test Accuracy: 60.12%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.7480907440185547 seconds
LR changed during epoch: 2.72e-04 -> 2.69e-04
total runtime to train this model was 26.357741355895996 seconds
Hyperparameteres for model 2 at epoch 13
lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.1413118839263916 seconds
Loss: 1.1182

Train Accuracy: 59.80%

Test Accuracy: 59.89%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6035783290863037 seconds
LR changed during epoch: 2.71e-04 -> 2.68e-04
total runtime to train this model was 26.881608963012695 seconds
Hyperparameteres for model 3 at epoch 13
lr: 0.00027866855897964196

weight_decay: 0.12005905479695693

drop_path: 0.18516687037287166

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5314393043518066 seconds

Loss: 1.1601

Train Accuracy: 58.01%

Test Accuracy: 59.71%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.6057496070861816 seconds

LR changed during epoch: 2.81e-04 -> 2.79e-04

total runtime to train this model was 26.86904811859131 seconds

Hyperparameteres for model 4 at epoch 13

lr: 0.00028916943317366104

weight_decay: 0.1350832051875679

drop_path: 0.1203142691941336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4215707778930664 seconds

Loss: 1.1260

Train Accuracy: 59.76%

Test Accuracy: 59.89%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 13 Summary:

=====
Time: 157.29s (Avg member: 31.46s)

Population Mean Accuracy: 60.10%

Best Member Accuracy: 60.89%

Mean Batch Size: 256

Mean Learning Rate: 3.50e-04

Mean Weight Decay: 0.102

=====
Epoch 14/70

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

built data in 1.6944117546081543 seconds

LR changed during epoch: 1.31e-04 -> 1.75e-04

total runtime to train this model was 26.839394092559814 seconds

Hyperparameteres for model 0 at epoch 14

lr: 0.00021799997987342534

weight_decay: 0.04164903759145146

drop_path: 0.0

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.8433306217193604 seconds

Loss: 1.0752
Train Accuracy: 61.43%
Test Accuracy: 60.93%
Google Drive already mounted.
Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6388235092163086 seconds
LR changed during epoch: 6.57e-04 -> 6.51e-04
total runtime to train this model was 27.940714836120605 seconds
Hyperparameteres for model 1 at epoch 14
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5401315689086914 seconds

Loss: 1.0723
Train Accuracy: 61.66%
Test Accuracy: 62.04%
Google Drive already mounted.
Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6041004657745361 seconds
LR changed during epoch: 2.69e-04 -> 2.67e-04
total runtime to train this model was 27.627203702926636 seconds
Hyperparameteres for model 2 at epoch 14
lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5381686687469482 seconds

Loss: 1.0923
Train Accuracy: 60.72%
Test Accuracy: 61.31%
Google Drive already mounted.
Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6405012607574463 seconds
LR changed during epoch: 2.68e-04 -> 2.66e-04
total runtime to train this model was 27.250476360321045 seconds
Hyperparameteres for model 3 at epoch 14
lr: 0.00027866855897964196

weight_decay: 0.12005905479695693

drop_path: 0.18516687037287166

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.8680877685546875 seconds

Loss: 1.1269

Train Accuracy: 59.71%

Test Accuracy: 59.89%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.596961498260498 seconds

LR changed during epoch: 2.79e-04 -> 2.76e-04

total runtime to train this model was 27.762871265411377 seconds

Hyperparameteres for model 4 at epoch 14

lr: 0.00028916943317366104

weight_decay: 0.1350832051875679

drop_path: 0.1203142691941336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5279629230499268 seconds

Loss: 1.1012

Train Accuracy: 60.58%

Test Accuracy: 60.82%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 14 Summary:

=====
Time: 162.10s (Avg member: 32.42s)

Population Mean Accuracy: 61.00%

Best Member Accuracy: 62.04%

Mean Batch Size: 256

Mean Learning Rate: 3.50e-04

Mean Weight Decay: 0.102
=====

Epoch 15/70
=====

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

built data in 1.597764253616333 seconds

LR changed during epoch: 1.75e-04 -> 2.18e-04

total runtime to train this model was 27.219095945358276 seconds

Hyperparameteres for model 0 at epoch 15

lr: 0.00021799997987342534

weight_decay: 0.04164903759145146

drop_path: 0.0

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5547869205474854 seconds
Loss: 1.0735

Train Accuracy: 61.40%

Test Accuracy: 60.46%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.583259105682373 seconds
LR changed during epoch: 6.51e-04 -> 6.43e-04
total runtime to train this model was 27.559412240982056 seconds
Hyperparameteres for model 1 at epoch 15
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.5966708660125732 seconds
Loss: 1.0405

Train Accuracy: 62.83%

Test Accuracy: 62.79%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.599522352218628 seconds
LR changed during epoch: 2.67e-04 -> 2.64e-04
total runtime to train this model was 27.553252935409546 seconds
Hyperparameteres for model 2 at epoch 15
lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4701411724090576 seconds
Loss: 1.0554

Train Accuracy: 62.27%

Test Accuracy: 61.63%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6149156093597412 seconds
LR changed during epoch: 2.66e-04 -> 2.63e-04
total runtime to train this model was 26.659095525741577 seconds
Hyperparameteres for model 3 at epoch 15

lr: 0.00027866855897964196

weight_decay: 0.12005905479695693

drop_path: 0.18516687037287166

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3736016750335693 seconds

Loss: 1.1072

Train Accuracy: 60.50%

Test Accuracy: 61.73%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.6282672882080078 seconds

LR changed during epoch: 2.76e-04 -> 2.73e-04

total runtime to train this model was 26.621986865997314 seconds

Hyperparameteres for model 4 at epoch 15

lr: 0.00028916943317366104

weight_decay: 0.1350832051875679

drop_path: 0.1203142691941336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.610625982284546 seconds

Loss: 1.0710

Train Accuracy: 61.84%

Test Accuracy: 62.67%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

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

=== PBT Exploit & Explore ===

Top performers: [62.79]

Bottom performers: [60.46]

Member 0: lr changed from 0.00021799997987342534 to 0.0002093346085927156

Member 0: weight_decay changed from 0.04164903759145146 to 0.020167863673195178

Member 0: drop_path changed from 0.0 to 0.011199048788492972

Member 0 copied from 1

LR=2.09e-04, WD=0.020, DropPath=0.011, Warmup=5 epochs, Batch=256

=====
Epoch 15 Summary:

=====
Time: 158.56s (Avg member: 31.71s)

Population Mean Accuracy: 61.86%

Best Member Accuracy: 62.79%

Mean Batch Size: 256

Mean Learning Rate: 3.48e-04

Mean Weight Decay: 0.098

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.7860033512115479 seconds
LR changed during epoch: 2.14e-07 -> 4.21e-05
total runtime to train this model was 26.20291495323181 seconds
Hyperparameteres for model 0 at epoch 16
lr: 0.0002093346085927156

weight_decay: 0.020167863673195178

drop_path: 0.011199048788492972

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.2750473022460938 seconds

Loss: 0.9369

Train Accuracy: 66.82%

Test Accuracy: 66.40%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.5939648151397705 seconds
LR changed during epoch: 6.43e-04 -> 6.35e-04
total runtime to train this model was 26.905354499816895 seconds
Hyperparameteres for model 1 at epoch 16
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.542046546936035 seconds

Loss: 1.0037

Train Accuracy: 64.33%

Test Accuracy: 64.15%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.5801301002502441 seconds
LR changed during epoch: 2.64e-04 -> 2.60e-04
total runtime to train this model was 27.008002758026123 seconds
Hyperparameteres for model 2 at epoch 16
lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5918467044830322 seconds
Loss: 1.0386

Train Accuracy: 63.11%

Test Accuracy: 63.40%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6414973735809326 seconds
LR changed during epoch: 2.63e-04 -> 2.59e-04
total runtime to train this model was 26.51709818840027 seconds
Hyperparameteres for model 3 at epoch 16
lr: 0.00027866855897964196

weight_decay: 0.12005905479695693

drop_path: 0.18516687037287166

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.643507242202759 seconds
Loss: 1.0758

Train Accuracy: 61.71%

Test Accuracy: 62.74%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.594437837600708 seconds
LR changed during epoch: 2.73e-04 -> 2.69e-04
total runtime to train this model was 26.868406772613525 seconds
Hyperparameteres for model 4 at epoch 16
lr: 0.00028916943317366104

weight_decay: 0.1350832051875679

drop_path: 0.1203142691941336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.511807680130005 seconds
Loss: 1.0432

Train Accuracy: 63.09%

Test Accuracy: 63.21%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 16 Summary:

=====
Time: 157.51s (Avg member: 31.50s)
Population Mean Accuracy: 63.98%

Best Member Accuracy: 66.40%
Mean Batch Size: 256
Mean Learning Rate: 3.48e-04
Mean Weight Decay: 0.098

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.6033720970153809 seconds
LR changed during epoch: 4.21e-05 -> 8.39e-05
total runtime to train this model was 26.977100133895874 seconds
Hyperparameteres for model 0 at epoch 17
lr: 0.0002093346085927156

weight_decay: 0.020167863673195178

drop_path: 0.011199048788492972

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4765052795410156 seconds
Loss: 0.8831

Train Accuracy: 68.61%

Test Accuracy: 67.24%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.5694222450256348 seconds
LR changed during epoch: 6.35e-04 -> 6.27e-04
total runtime to train this model was 27.133018255233765 seconds
Hyperparameteres for model 1 at epoch 17
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.6081912517547607 seconds
Loss: 0.9850

Train Accuracy: 65.18%

Test Accuracy: 66.37%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.764772653579712 seconds
LR changed during epoch: 2.60e-04 -> 2.57e-04
total runtime to train this model was 27.565267324447632 seconds
Hyperparameteres for model 2 at epoch 17
lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.948888063430786 seconds

Loss: 1.0080

Train Accuracy: 64.11%

Test Accuracy: 62.48%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.5986542701721191 seconds

LR changed during epoch: 2.59e-04 -> 2.56e-04

total runtime to train this model was 27.388858556747437 seconds

Hyperparameteres for model 3 at epoch 17

lr: 0.00027866855897964196

weight_decay: 0.12005905479695693

drop_path: 0.18516687037287166

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4114837646484375 seconds

Loss: 1.0538

Train Accuracy: 62.00%

Test Accuracy: 63.26%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.6142594814300537 seconds

LR changed during epoch: 2.69e-04 -> 2.66e-04

total runtime to train this model was 26.842056274414062 seconds

Hyperparameteres for model 4 at epoch 17

lr: 0.00028916943317366104

weight_decay: 0.1350832051875679

drop_path: 0.1203142691941336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.367732048034668 seconds

Loss: 1.0281

Train Accuracy: 63.29%

Test Accuracy: 64.28%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

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

Time: 158.13s (Avg member: 31.63s)
Population Mean Accuracy: 64.73%
Best Member Accuracy: 67.24%
Mean Batch Size: 256
Mean Learning Rate: 3.48e-04
Mean Weight Decay: 0.098

=====
Epoch 18/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.6727709770202637 seconds
LR changed during epoch: 8.39e-05 -> 1.26e-04
total runtime to train this model was 26.45826029777527 seconds
Hyperparameteres for model 0 at epoch 18
lr: 0.0002093346085927156

weight_decay: 0.020167863673195178

drop_path: 0.011199048788492972

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.5108320713043213 seconds
Loss: 0.8596

Train Accuracy: 69.47%

Test Accuracy: 67.53%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6313567161560059 seconds
LR changed during epoch: 6.27e-04 -> 6.17e-04
total runtime to train this model was 25.996355533599854 seconds
Hyperparameteres for model 1 at epoch 18
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4651827812194824 seconds
Loss: 0.9613

Train Accuracy: 65.68%

Test Accuracy: 66.17%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6079154014587402 seconds

LR changed during epoch: 2.57e-04 -> 2.53e-04
total runtime to train this model was 26.435431480407715 seconds
Hyperparameteres for model 2 at epoch 18
lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.569821357727051 seconds

Loss: 0.9876

Train Accuracy: 64.83%

Test Accuracy: 64.70%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.5855846405029297 seconds

LR changed during epoch: 2.56e-04 -> 2.52e-04

total runtime to train this model was 26.253878355026245 seconds

Hyperparameteres for model 3 at epoch 18

lr: 0.00027866855897964196

weight_decay: 0.12005905479695693

drop_path: 0.18516687037287166

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.442822217941284 seconds

Loss: 1.0251

Train Accuracy: 63.40%

Test Accuracy: 62.55%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.6822805404663086 seconds

LR changed during epoch: 2.66e-04 -> 2.62e-04

total runtime to train this model was 25.646905183792114 seconds

Hyperparameteres for model 4 at epoch 18

lr: 0.00028916943317366104

weight_decay: 0.1350832051875679

drop_path: 0.1203142691941336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.040464401245117 seconds

Loss: 1.0038

Train Accuracy: 63.93%
Test Accuracy: 64.63%
Google Drive already mounted.
Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

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

Time: 154.43s (Avg member: 30.89s)
Population Mean Accuracy: 65.12%
Best Member Accuracy: 67.53%
Mean Batch Size: 256
Mean Learning Rate: 3.48e-04
Mean Weight Decay: 0.098

=====
Epoch 19/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.709925651550293 seconds
LR changed during epoch: 1.26e-04 -> 1.68e-04
total runtime to train this model was 26.242258071899414 seconds
Hyperparameteres for model 0 at epoch 19
lr: 0.0002093346085927156

weight_decay: 0.020167863673195178

drop_path: 0.011199048788492972

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.424973249435425 seconds

Loss: 0.8522

Train Accuracy: 69.82%

Test Accuracy: 68.48%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.579054355621338 seconds
LR changed during epoch: 6.17e-04 -> 6.07e-04
total runtime to train this model was 26.145145654678345 seconds
Hyperparameteres for model 1 at epoch 19
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3452932834625244 seconds

Loss: 0.9321

Train Accuracy: 67.00%

Test Accuracy: 66.06%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.5837767124176025 seconds
LR changed during epoch: 2.53e-04 -> 2.49e-04
total runtime to train this model was 26.07092022895813 seconds
Hyperparameteres for model 2 at epoch 19
lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.328972816467285 seconds

Loss: 0.9646

Train Accuracy: 65.61%

Test Accuracy: 65.67%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.5850396156311035 seconds
LR changed during epoch: 2.52e-04 -> 2.48e-04
total runtime to train this model was 26.33632183074951 seconds
Hyperparameteres for model 3 at epoch 19
lr: 0.00027866855897964196

weight_decay: 0.12005905479695693

drop_path: 0.18516687037287166

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.937417984008789 seconds

Loss: 1.0026

Train Accuracy: 64.22%

Test Accuracy: 64.78%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.7072224617004395 seconds
LR changed during epoch: 2.62e-04 -> 2.57e-04
total runtime to train this model was 26.72535228729248 seconds
Hyperparameteres for model 4 at epoch 19
lr: 0.00028916943317366104

weight_decay: 0.1350832051875679

drop_path: 0.1203142691941336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5774827003479004 seconds

Loss: 0.9822

Train Accuracy: 65.15%

Test Accuracy: 64.95%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

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

Time: 153.54s (Avg member: 30.71s)

Population Mean Accuracy: 65.99%

Best Member Accuracy: 68.48%

Mean Batch Size: 256

Mean Learning Rate: 3.48e-04

Mean Weight Decay: 0.098

=====
Epoch 20/70
=====

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

built data in 1.6182234287261963 seconds

LR changed during epoch: 1.68e-04 -> 2.09e-04

total runtime to train this model was 26.425907135009766 seconds

Hyperparameteres for model 0 at epoch 20

lr: 0.0002093346085927156

weight_decay: 0.020167863673195178

drop_path: 0.011199048788492972

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.481337308883667 seconds

Loss: 0.8441

Train Accuracy: 69.86%

Test Accuracy: 69.08%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.6176588535308838 seconds

LR changed during epoch: 6.07e-04 -> 5.97e-04

total runtime to train this model was 26.802599906921387 seconds

Hyperparameteres for model 1 at epoch 20

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4606239795684814 seconds

Loss: 0.9136

Train Accuracy: 67.39%

Test Accuracy: 67.67%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.6696844100952148 seconds

LR changed during epoch: 2.49e-04 -> 2.45e-04

total runtime to train this model was 25.938305616378784 seconds

Hyperparameteres for model 2 at epoch 20

lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.3718039989471436 seconds

Loss: 0.9455

Train Accuracy: 66.34%

Test Accuracy: 66.30%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.657743215560913 seconds

LR changed during epoch: 2.48e-04 -> 2.44e-04

total runtime to train this model was 26.317156314849854 seconds

Hyperparameteres for model 3 at epoch 20

lr: 0.00027866855897964196

weight_decay: 0.12005905479695693

drop_path: 0.18516687037287166

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4023795127868652 seconds

Loss: 0.9864

Train Accuracy: 64.99%

Test Accuracy: 65.44%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.5761194229125977 seconds

LR changed during epoch: 2.57e-04 -> 2.53e-04

total runtime to train this model was 25.87319540977478 seconds

Hyperparameteres for model 4 at epoch 20

lr: 0.00028916943317366104

weight_decay: 0.1350832051875679

drop_path: 0.1203142691941336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3543922901153564 seconds

Loss: 0.9518

Train Accuracy: 66.15%

Test Accuracy: 65.86%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

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

=== PBT Exploit & Explore ===

Top performers: [69.08]

Bottom performers: [65.44]

Member 3: lr changed from 0.00027866855897964196 to 0.0002944566017326581

Member 3: weight_decay changed from 0.12005905479695693 to 0.10105620967938464

Member 3: drop_path changed from 0.18516687037287166 to 0.2

Member 3 copied from 0

LR=2.94e-04, WD=0.101, DropPath=0.200, Warmup=5 epochs, Batch=256

=====
Epoch 20 Summary:

Time: 153.80s (Avg member: 30.76s)

Population Mean Accuracy: 66.87%

Best Member Accuracy: 69.08%

Mean Batch Size: 256

Mean Learning Rate: 3.51e-04

Mean Weight Decay: 0.094
=====

Epoch 21/70
=====

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

built data in 1.5947284698486328 seconds

LR changed during epoch: 2.09e-04 -> 2.09e-04

total runtime to train this model was 26.539864540100098 seconds

Hyperparameteres for model 0 at epoch 21

lr: 0.0002093346085927156

weight_decay: 0.020167863673195178

drop_path: 0.011199048788492972

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3656013011932373 seconds

Loss: 0.8427

Train Accuracy: 69.97%

Test Accuracy: 68.56%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.631791114807129 seconds
LR changed during epoch: 5.97e-04 -> 5.85e-04
total runtime to train this model was 26.109861850738525 seconds
Hyperparameteres for model 1 at epoch 21
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.1351711750030518 seconds
Loss: 0.8855
Train Accuracy: 68.42%
Test Accuracy: 69.08%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.7545742988586426 seconds
LR changed during epoch: 2.45e-04 -> 2.40e-04
total runtime to train this model was 26.969276428222656 seconds
Hyperparameteres for model 2 at epoch 21
lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.509352207183838 seconds
Loss: 0.9250
Train Accuracy: 67.06%
Test Accuracy: 67.29%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.5933558940887451 seconds
LR changed during epoch: 3.00e-07 -> 5.92e-05
total runtime to train this model was 27.104875564575195 seconds
Hyperparameteres for model 3 at epoch 21
lr: 0.0002944566017326581

weight_decay: 0.10105620967938464

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.428011178970337 seconds

Loss: 0.8351

Train Accuracy: 70.41%

Test Accuracy: 70.03%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.6090328693389893 seconds

LR changed during epoch: 2.53e-04 -> 2.48e-04

total runtime to train this model was 27.496769428253174 seconds

Hyperparameteres for model 4 at epoch 21

lr: 0.00028916943317366104

weight_decay: 0.1350832051875679

drop_path: 0.1203142691941336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4297966957092285 seconds

Loss: 0.9378

Train Accuracy: 66.84%

Test Accuracy: 66.63%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 21 Summary:

=====
Time: 156.66s (Avg member: 31.33s)

Population Mean Accuracy: 68.32%

Best Member Accuracy: 70.03%

Mean Batch Size: 256

Mean Learning Rate: 3.51e-04

Mean Weight Decay: 0.094
=====

Epoch 22/70
=====

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

built data in 1.7363288402557373 seconds

LR changed during epoch: 2.09e-04 -> 2.09e-04

total runtime to train this model was 26.92445731163025 seconds

Hyperparameteres for model 0 at epoch 22

lr: 0.0002093346085927156

weight_decay: 0.020167863673195178

drop_path: 0.011199048788492972

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.222118854522705 seconds

Loss: 0.8187
Train Accuracy: 70.86%
Test Accuracy: 68.44%
Google Drive already mounted.
Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.571143388748169 seconds
LR changed during epoch: 5.85e-04 -> 5.74e-04
total runtime to train this model was 27.167787551879883 seconds
Hyperparameteres for model 1 at epoch 22
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.542440891265869 seconds

Loss: 0.8687

Train Accuracy: 69.22%

Test Accuracy: 67.38%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.5962245464324951 seconds
LR changed during epoch: 2.40e-04 -> 2.35e-04
total runtime to train this model was 26.72127389907837 seconds
Hyperparameteres for model 2 at epoch 22
lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.447814702987671 seconds

Loss: 0.9096

Train Accuracy: 67.83%

Test Accuracy: 67.22%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.575556993484497 seconds
LR changed during epoch: 5.92e-05 -> 1.18e-04
total runtime to train this model was 27.024389266967773 seconds
Hyperparameteres for model 3 at epoch 22
lr: 0.0002944566017326581

weight_decay: 0.10105620967938464

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.3498692512512207 seconds

Loss: 0.8286

Train Accuracy: 70.65%

Test Accuracy: 69.29%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.6321027278900146 seconds

LR changed during epoch: 2.48e-04 -> 2.43e-04

total runtime to train this model was 27.16400957107544 seconds

Hyperparameteres for model 4 at epoch 22

lr: 0.00028916943317366104

weight_decay: 0.1350832051875679

drop_path: 0.1203142691941336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.454598903656006 seconds

Loss: 0.9198

Train Accuracy: 67.07%

Test Accuracy: 67.52%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 22 Summary:

=====
Time: 158.37s (Avg member: 31.67s)

Population Mean Accuracy: 67.97%

Best Member Accuracy: 69.29%

Mean Batch Size: 256

Mean Learning Rate: 3.51e-04

Mean Weight Decay: 0.094
=====

Epoch 23/70
=====

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

built data in 1.6196928024291992 seconds

LR changed during epoch: 2.09e-04 -> 2.08e-04

total runtime to train this model was 27.20683455467224 seconds

Hyperparameteres for model 0 at epoch 23

lr: 0.0002093346085927156

weight_decay: 0.020167863673195178

drop_path: 0.011199048788492972

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4441421031951904 seconds
Loss: 0.8010

Train Accuracy: 71.34%

Test Accuracy: 69.28%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.5927810668945312 seconds
LR changed during epoch: 5.74e-04 -> 5.61e-04
total runtime to train this model was 27.100650310516357 seconds
Hyperparameteres for model 1 at epoch 23
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.497138023376465 seconds
Loss: 0.8573

Train Accuracy: 69.60%

Test Accuracy: 69.70%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.757187843322754 seconds
LR changed during epoch: 2.35e-04 -> 2.30e-04
total runtime to train this model was 27.21350884437561 seconds
Hyperparameteres for model 2 at epoch 23
lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.1766421794891357 seconds
Loss: 0.8847

Train Accuracy: 68.53%

Test Accuracy: 66.94%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6171233654022217 seconds
LR changed during epoch: 1.18e-04 -> 1.77e-04
total runtime to train this model was 27.37602472305298 seconds
Hyperparameteres for model 3 at epoch 23

lr: 0.0002944566017326581

weight_decay: 0.10105620967938464

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4882113933563232 seconds

Loss: 0.8347

Train Accuracy: 70.24%

Test Accuracy: 69.65%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.6420536041259766 seconds

LR changed during epoch: 2.43e-04 -> 2.38e-04

total runtime to train this model was 27.100809574127197 seconds

Hyperparameteres for model 4 at epoch 23

lr: 0.00028916943317366104

weight_decay: 0.1350832051875679

drop_path: 0.1203142691941336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.575810194015503 seconds

Loss: 0.9017

Train Accuracy: 67.76%

Test Accuracy: 67.06%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 23 Summary:

=====
Time: 158.70s (Avg member: 31.74s)

Population Mean Accuracy: 68.53%

Best Member Accuracy: 69.70%

Mean Batch Size: 256

Mean Learning Rate: 3.51e-04

Mean Weight Decay: 0.094
=====

Epoch 24/70
=====

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

built data in 1.677844762802124 seconds

LR changed during epoch: 2.08e-04 -> 2.07e-04

total runtime to train this model was 26.72857666015625 seconds

Hyperparameteres for model 0 at epoch 24

lr: 0.0002093346085927156

weight_decay: 0.020167863673195178

drop_path: 0.011199048788492972

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.78835129737854 seconds

Loss: 0.7862

Train Accuracy: 71.89%

Test Accuracy: 70.75%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.6308166980743408 seconds

LR changed during epoch: 5.61e-04 -> 5.48e-04

total runtime to train this model was 27.26422095298767 seconds

Hyperparameteres for model 1 at epoch 24

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4610910415649414 seconds

Loss: 0.8249

Train Accuracy: 70.78%

Test Accuracy: 71.13%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.6046953201293945 seconds

LR changed during epoch: 2.30e-04 -> 2.25e-04

total runtime to train this model was 26.992697954177856 seconds

Hyperparameteres for model 2 at epoch 24

lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5154175758361816 seconds

Loss: 0.8661

Train Accuracy: 69.16%

Test Accuracy: 68.86%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.5995697975158691 seconds
LR changed during epoch: 1.77e-04 -> 2.36e-04
total runtime to train this model was 26.949317932128906 seconds
Hyperparameteres for model 3 at epoch 24
lr: 0.0002944566017326581

weight_decay: 0.10105620967938464

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.0098555088043213 seconds

Loss: 0.8449

Train Accuracy: 69.95%

Test Accuracy: 68.92%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.706864833831787 seconds
LR changed during epoch: 2.38e-04 -> 2.33e-04
total runtime to train this model was 26.57815146446228 seconds
Hyperparameteres for model 4 at epoch 24
lr: 0.00028916943317366104

weight_decay: 0.1350832051875679

drop_path: 0.1203142691941336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.8689613342285156 seconds

Loss: 0.8834

Train Accuracy: 68.73%

Test Accuracy: 68.94%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 24 Summary:

=====
Time: 158.64s (Avg member: 31.73s)

Population Mean Accuracy: 69.72%

Best Member Accuracy: 71.13%

Mean Batch Size: 256

Mean Learning Rate: 3.51e-04

Mean Weight Decay: 0.094

=====
Epoch 25/70

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

built data in 1.5961270332336426 seconds

LR changed during epoch: 2.07e-04 -> 2.06e-04
total runtime to train this model was 27.348798274993896 seconds
Hyperparameteres for model 0 at epoch 25
lr: 0.0002093346085927156

weight_decay: 0.020167863673195178

drop_path: 0.011199048788492972

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.553366184234619 seconds

Loss: 0.7666

Train Accuracy: 72.77%

Test Accuracy: 70.58%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.590963363647461 seconds

LR changed during epoch: 5.48e-04 -> 5.35e-04

total runtime to train this model was 26.831134796142578 seconds

Hyperparameteres for model 1 at epoch 25

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.412787675857544 seconds

Loss: 0.8109

Train Accuracy: 71.35%

Test Accuracy: 71.06%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.6866888999938965 seconds

LR changed during epoch: 2.25e-04 -> 2.20e-04

total runtime to train this model was 26.556221961975098 seconds

Hyperparameteres for model 2 at epoch 25

lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.7046732902526855 seconds

Loss: 0.8507

Train Accuracy: 69.86%
Test Accuracy: 69.25%
Google Drive already mounted.
Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6070339679718018 seconds
LR changed during epoch: 2.36e-04 -> 2.94e-04
total runtime to train this model was 27.06269645690918 seconds
Hyperparameteres for model 3 at epoch 25
lr: 0.0002944566017326581

weight_decay: 0.10105620967938464

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4377620220184326 seconds

Loss: 0.8525

Train Accuracy: 69.70%

Test Accuracy: 70.01%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.6151878833770752 seconds
LR changed during epoch: 2.33e-04 -> 2.27e-04
total runtime to train this model was 26.86550211906433 seconds
Hyperparameteres for model 4 at epoch 25
lr: 0.00028916943317366104

weight_decay: 0.1350832051875679

drop_path: 0.1203142691941336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.487694025039673 seconds

Loss: 0.8702

Train Accuracy: 69.26%

Test Accuracy: 68.78%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

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

=== PBT Exploit & Explore ===

Top performers: [71.06]

Bottom performers: [68.78]

Member 4: lr changed from 0.00028916943317366104 to 0.0002045638731974187

Member 4: weight_decay changed from 0.1350832051875679 to 0.13877369675569298

Member 4: drop_path changed from 0.1203142691941336 to 0.14274668347616418

Member 4 copied from 1

LR=2.05e-04, WD=0.139, DropPath=0.143, Warmup=5 epochs, Batch=256

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

Time: 157.55s (Avg member: 31.51s)
Population Mean Accuracy: 69.94%
Best Member Accuracy: 71.06%
Mean Batch Size: 256
Mean Learning Rate: 3.34e-04
Mean Weight Decay: 0.095

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.6855273246765137 seconds
LR changed during epoch: 2.06e-04 -> 2.05e-04
total runtime to train this model was 27.041181564331055 seconds
Hyperparameteres for model 0 at epoch 26
lr: 0.0002093346085927156

weight_decay: 0.020167863673195178

drop_path: 0.011199048788492972

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.070148229598999 seconds

Loss: 0.7587

Train Accuracy: 73.21%

Test Accuracy: 71.43%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.7611479759216309 seconds
LR changed during epoch: 5.35e-04 -> 5.21e-04
total runtime to train this model was 27.311240196228027 seconds
Hyperparameteres for model 1 at epoch 26
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5160317420959473 seconds

Loss: 0.7914

Train Accuracy: 71.91%

Test Accuracy: 70.83%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.5707459449768066 seconds

LR changed during epoch: 2.20e-04 -> 2.14e-04
total runtime to train this model was 27.379224061965942 seconds
Hyperparameteres for model 2 at epoch 26
lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4667091369628906 seconds
Loss: 0.8333

Train Accuracy: 70.42%

Test Accuracy: 69.52%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.5972459316253662 seconds
LR changed during epoch: 2.94e-04 -> 2.94e-04
total runtime to train this model was 26.948307514190674 seconds
Hyperparameteres for model 3 at epoch 26
lr: 0.0002944566017326581

weight_decay: 0.10105620967938464

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.468500852584839 seconds
Loss: 0.8473

Train Accuracy: 69.84%

Test Accuracy: 68.50%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.7334227561950684 seconds
LR changed during epoch: 2.09e-07 -> 4.11e-05
total runtime to train this model was 26.276986598968506 seconds
Hyperparameteres for model 4 at epoch 26
lr: 0.0002045638731974187

weight_decay: 0.13877369675569298

drop_path: 0.14274668347616418

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.3024230003356934 seconds
Loss: 0.7272

Train Accuracy: 74.13%

Test Accuracy: 73.46%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

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

Time: 158.40s (Avg member: 31.68s)

Population Mean Accuracy: 70.75%

Best Member Accuracy: 73.46%

Mean Batch Size: 256

Mean Learning Rate: 3.34e-04

Mean Weight Decay: 0.095

=====

Epoch 27/70
=====

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

built data in 1.5825395584106445 seconds

LR changed during epoch: 2.05e-04 -> 2.03e-04

total runtime to train this model was 27.122008085250854 seconds

Hyperparameteres for model 0 at epoch 27

lr: 0.0002093346085927156

weight_decay: 0.020167863673195178

drop_path: 0.011199048788492972

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.473806858062744 seconds

Loss: 0.7457

Train Accuracy: 73.64%

Test Accuracy: 71.47%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.57883882522583 seconds

LR changed during epoch: 5.21e-04 -> 5.07e-04

total runtime to train this model was 26.76688289642334 seconds

Hyperparameteres for model 1 at epoch 27

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.458430767059326 seconds

Loss: 0.7750

Train Accuracy: 72.57%

Test Accuracy: 70.84%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.577186107635498 seconds

LR changed during epoch: 2.14e-04 -> 2.08e-04

total runtime to train this model was 26.598506689071655 seconds

Hyperparameteres for model 2 at epoch 27

lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.714186191558838 seconds

Loss: 0.8205

Train Accuracy: 70.85%

Test Accuracy: 70.02%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.8019413948059082 seconds

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

total runtime to train this model was 26.644843339920044 seconds

Hyperparameteres for model 3 at epoch 27

lr: 0.0002944566017326581

weight_decay: 0.10105620967938464

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.145569086074829 seconds

Loss: 0.8425

Train Accuracy: 70.03%

Test Accuracy: 70.24%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.5754244327545166 seconds

LR changed during epoch: 4.11e-05 -> 8.20e-05

total runtime to train this model was 27.181118726730347 seconds

Hyperparameteres for model 4 at epoch 27

lr: 0.0002045638731974187

weight_decay: 0.13877369675569298

drop_path: 0.14274668347616418

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5080676078796387 seconds

Loss: 0.6828

Train Accuracy: 75.73%

Test Accuracy: 74.03%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

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

Time: 156.98s (Avg member: 31.40s)

Population Mean Accuracy: 71.32%

Best Member Accuracy: 74.03%

Mean Batch Size: 256

Mean Learning Rate: 3.34e-04

Mean Weight Decay: 0.095

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

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

built data in 1.61006760597229 seconds

LR changed during epoch: 2.03e-04 -> 2.02e-04

total runtime to train this model was 26.961703062057495 seconds

Hyperparameteres for model 0 at epoch 28

lr: 0.0002093346085927156

weight_decay: 0.020167863673195178

drop_path: 0.011199048788492972

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4292678833007812 seconds

Loss: 0.7323

Train Accuracy: 74.00%

Test Accuracy: 71.69%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.6026582717895508 seconds

LR changed during epoch: 5.07e-04 -> 4.93e-04

total runtime to train this model was 26.686280488967896 seconds

Hyperparameteres for model 1 at epoch 28

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.174718141555786 seconds

Loss: 0.7573

Train Accuracy: 73.17%

Test Accuracy: 72.24%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.6680560111999512 seconds

LR changed during epoch: 2.08e-04 -> 2.02e-04

total runtime to train this model was 26.771482467651367 seconds

Hyperparameteres for model 2 at epoch 28

lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.373825788497925 seconds

Loss: 0.7981

Train Accuracy: 71.96%

Test Accuracy: 70.49%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.562699794769287 seconds

LR changed during epoch: 2.94e-04 -> 2.93e-04

total runtime to train this model was 26.53044819831848 seconds

Hyperparameteres for model 3 at epoch 28

lr: 0.0002944566017326581

weight_decay: 0.10105620967938464

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.457925319671631 seconds

Loss: 0.8261

Train Accuracy: 70.78%

Test Accuracy: 69.60%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.560899019241333 seconds

LR changed during epoch: 8.20e-05 -> 1.23e-04

total runtime to train this model was 26.520986318588257 seconds

Hyperparameteres for model 4 at epoch 28

lr: 0.0002045638731974187

weight_decay: 0.13877369675569298

drop_path: 0.14274668347616418

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.427643299102783 seconds

Loss: 0.6759

Train Accuracy: 75.97%

Test Accuracy: 74.28%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 28 Summary:
=====

Time: 155.54s (Avg member: 31.11s)

Population Mean Accuracy: 71.66%

Best Member Accuracy: 74.28%

Mean Batch Size: 256

Mean Learning Rate: 3.34e-04

Mean Weight Decay: 0.095

=====
Epoch 29/70
=====

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

built data in 1.6774580478668213 seconds

LR changed during epoch: 2.02e-04 -> 2.00e-04

total runtime to train this model was 26.316818952560425 seconds

Hyperparameteres for model 0 at epoch 29

lr: 0.0002093346085927156

weight_decay: 0.020167863673195178

drop_path: 0.011199048788492972

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.3115551471710205 seconds

Loss: 0.7141

Train Accuracy: 74.46%

Test Accuracy: 72.15%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.6620850563049316 seconds

LR changed during epoch: 4.93e-04 -> 4.78e-04

total runtime to train this model was 26.772415161132812 seconds

Hyperparameteres for model 1 at epoch 29

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4899590015411377 seconds

Loss: 0.7429

Train Accuracy: 73.64%

Test Accuracy: 73.11%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.5778770446777344 seconds

LR changed during epoch: 2.02e-04 -> 1.96e-04

total runtime to train this model was 26.459099769592285 seconds

Hyperparameteres for model 2 at epoch 29

lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4821176528930664 seconds

Loss: 0.7860

Train Accuracy: 71.93%

Test Accuracy: 71.00%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.631007432937622 seconds

LR changed during epoch: 2.93e-04 -> 2.92e-04

total runtime to train this model was 26.421821355819702 seconds

Hyperparameteres for model 3 at epoch 29

lr: 0.0002944566017326581

weight_decay: 0.10105620967938464

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4270694255828857 seconds

Loss: 0.8112

Train Accuracy: 71.09%

Test Accuracy: 71.46%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.6456875801086426 seconds

LR changed during epoch: 1.23e-04 -> 1.64e-04

total runtime to train this model was 25.99617052078247 seconds

Hyperparameteres for model 4 at epoch 29

lr: 0.0002045638731974187

weight_decay: 0.13877369675569298

drop_path: 0.14274668347616418

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.986375570297241 seconds

Loss: 0.6735

Train Accuracy: 76.12%

Test Accuracy: 74.59%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 29 Summary:

=====
Time: 155.14s (Avg member: 31.03s)

Population Mean Accuracy: 72.46%

Best Member Accuracy: 74.59%

Mean Batch Size: 256

Mean Learning Rate: 3.34e-04

Mean Weight Decay: 0.095

=====
Epoch 30/70

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

built data in 1.7509393692016602 seconds

LR changed during epoch: 2.00e-04 -> 1.97e-04

total runtime to train this model was 26.116896152496338 seconds

Hyperparameteres for model 0 at epoch 30

lr: 0.0002093346085927156

weight_decay: 0.020167863673195178

drop_path: 0.011199048788492972

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.8095109462738037 seconds

Loss: 0.6965

Train Accuracy: 75.37%

Test Accuracy: 71.99%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.5973825454711914 seconds

LR changed during epoch: 4.78e-04 -> 4.62e-04

total runtime to train this model was 26.583643436431885 seconds

Hyperparameteres for model 1 at epoch 30

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3951826095581055 seconds

Loss: 0.7196

Train Accuracy: 74.40%

Test Accuracy: 73.21%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.6053500175476074 seconds

LR changed during epoch: 1.96e-04 -> 1.90e-04

total runtime to train this model was 26.444739818572998 seconds

Hyperparameteres for model 2 at epoch 30

lr: 0.0002797334030073843

weight_decay: 0.10723796006708995

drop_path: 0.09657181401157298

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.425240993499756 seconds

Loss: 0.7736

Train Accuracy: 72.48%

Test Accuracy: 70.84%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.591332197189331 seconds

LR changed during epoch: 2.92e-04 -> 2.90e-04

total runtime to train this model was 26.440927267074585 seconds

Hyperparameteres for model 3 at epoch 30

lr: 0.0002944566017326581

weight_decay: 0.10105620967938464

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9229180812835693 seconds

Loss: 0.7988

Train Accuracy: 71.59%

Test Accuracy: 71.03%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.7509946823120117 seconds
LR changed during epoch: 1.64e-04 -> 2.05e-04
total runtime to train this model was 25.685850858688354 seconds
Hyperparameteres for model 4 at epoch 30
lr: 0.0002045638731974187

weight_decay: 0.13877369675569298

drop_path: 0.14274668347616418

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.1035962104797363 seconds
Loss: 0.6743

Train Accuracy: 76.00%

Test Accuracy: 74.24%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

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

=== PBT Exploit & Explore ===

Top performers: [74.24]

Bottom performers: [70.84]

Member 2: lr changed from 0.0002797334030073843 to 0.0002114671451119209

Member 2: weight_decay changed from 0.10723796006708995 to 0.08864572024680437

Member 2: drop_path changed from 0.09657181401157298 to 0.1296740747150324

Member 2 copied from 4

LR=2.11e-04, WD=0.089, DropPath=0.130, Warmup=5 epochs, Batch=256

=====
Epoch 30 Summary:

Time: 154.51s (Avg member: 30.90s)

Population Mean Accuracy: 72.26%

Best Member Accuracy: 74.24%

Mean Batch Size: 256

Mean Learning Rate: 3.20e-04

Mean Weight Decay: 0.091

=====
Epoch 31/70

--- Training Member 0 (Batch size: 256) ---
built data in 1.5702731609344482 seconds
LR changed during epoch: 1.97e-04 -> 1.95e-04
total runtime to train this model was 26.378159046173096 seconds
Hyperparameteres for model 0 at epoch 31
lr: 0.0002093346085927156

weight_decay: 0.020167863673195178

drop_path: 0.011199048788492972

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.415339231491089 seconds

Loss: 0.6814

Train Accuracy: 75.80%

Test Accuracy: 72.91%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.5582444667816162 seconds

LR changed during epoch: 4.62e-04 -> 4.47e-04

total runtime to train this model was 26.582783460617065 seconds

Hyperparameteres for model 1 at epoch 31

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.474752187728882 seconds

Loss: 0.7070

Train Accuracy: 74.84%

Test Accuracy: 74.13%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.58445405960083 seconds

LR changed during epoch: 2.16e-07 -> 4.25e-05

total runtime to train this model was 26.584518432617188 seconds

Hyperparameteres for model 2 at epoch 31

lr: 0.0002114671451119209

weight_decay: 0.08864572024680437

drop_path: 0.1296740747150324

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.0771141052246094 seconds

Loss: 0.6294

Train Accuracy: 77.88%

Test Accuracy: 74.80%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.7503716945648193 seconds

LR changed during epoch: 2.90e-04 -> 2.88e-04

total runtime to train this model was 26.335328817367554 seconds

Hyperparameteres for model 3 at epoch 31

lr: 0.0002944566017326581

weight_decay: 0.10105620967938464

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9229180812835693 seconds

Loss: 0.7892

Train Accuracy: 71.86%

Test Accuracy: 71.93%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.5950427055358887 seconds

LR changed during epoch: 2.05e-04 -> 2.04e-04

total runtime to train this model was 26.82532024383545 seconds

Hyperparameteres for model 4 at epoch 31

lr: 0.0002045638731974187

weight_decay: 0.13877369675569298

drop_path: 0.14274668347616418

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.47143816947937 seconds

Loss: 0.6662

Train Accuracy: 76.40%

Test Accuracy: 74.95%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 31 Summary:

=====
Time: 155.35s (Avg member: 31.07s)

Population Mean Accuracy: 73.74%

Best Member Accuracy: 74.95%

Mean Batch Size: 256

Mean Learning Rate: 3.20e-04

Mean Weight Decay: 0.091
=====

Epoch 32/70
=====

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

built data in 1.5796129703521729 seconds

LR changed during epoch: 1.95e-04 -> 1.92e-04

total runtime to train this model was 26.625059604644775 seconds

Hyperparameteres for model 0 at epoch 32

lr: 0.0002093346085927156

weight_decay: 0.020167863673195178

drop_path: 0.011199048788492972

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.413928985595703 seconds

Loss: 0.6786

Train Accuracy: 75.77%

Test Accuracy: 72.84%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.5868074893951416 seconds

LR changed during epoch: 4.47e-04 -> 4.31e-04

total runtime to train this model was 26.509989738464355 seconds

Hyperparameteres for model 1 at epoch 32

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.3371450901031494 seconds

Loss: 0.6918

Train Accuracy: 75.43%

Test Accuracy: 73.70%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.696317195892334 seconds

LR changed during epoch: 4.25e-05 -> 8.48e-05

total runtime to train this model was 26.80791687965393 seconds

Hyperparameteres for model 2 at epoch 32

lr: 0.0002114671451119209

weight_decay: 0.08864572024680437

drop_path: 0.1296740747150324

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.546419143676758 seconds

Loss: 0.6199

Train Accuracy: 77.95%

Test Accuracy: 75.42%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.5843982696533203 seconds
LR changed during epoch: 2.88e-04 -> 2.86e-04
total runtime to train this model was 27.167259216308594 seconds
Hyperparameteres for model 3 at epoch 32
lr: 0.0002944566017326581

weight_decay: 0.10105620967938464

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.429180145263672 seconds

Loss: 0.7809

Train Accuracy: 72.30%

Test Accuracy: 71.75%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.6048288345336914 seconds
LR changed during epoch: 2.04e-04 -> 2.04e-04
total runtime to train this model was 26.96383309364319 seconds
Hyperparameteres for model 4 at epoch 32
lr: 0.0002045638731974187

weight_decay: 0.13877369675569298

drop_path: 0.14274668347616418

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4384331703186035 seconds

Loss: 0.6623

Train Accuracy: 76.41%

Test Accuracy: 74.08%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 32 Summary:

=====
Time: 156.60s (Avg member: 31.32s)

Population Mean Accuracy: 73.56%

Best Member Accuracy: 75.42%

Mean Batch Size: 256

Mean Learning Rate: 3.20e-04

Mean Weight Decay: 0.091

=====
Epoch 33/70

=====
--- Training Member 0 (Batch size: 256) ---
built data in 1.8102953433990479 seconds

LR changed during epoch: 1.92e-04 -> 1.89e-04
total runtime to train this model was 26.546550035476685 seconds
Hyperparameteres for model 0 at epoch 33
lr: 0.0002093346085927156

weight_decay: 0.020167863673195178

drop_path: 0.011199048788492972

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.2208333015441895 seconds

Loss: 0.6627

Train Accuracy: 76.35%

Test Accuracy: 72.84%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.5799639225006104 seconds

LR changed during epoch: 4.31e-04 -> 4.15e-04

total runtime to train this model was 26.814217567443848 seconds

Hyperparameteres for model 1 at epoch 33

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5028908252716064 seconds

Loss: 0.6732

Train Accuracy: 76.13%

Test Accuracy: 74.67%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.5942072868347168 seconds

LR changed during epoch: 8.48e-05 -> 1.27e-04

total runtime to train this model was 26.80740976333618 seconds

Hyperparameteres for model 2 at epoch 33

lr: 0.0002114671451119209

weight_decay: 0.08864572024680437

drop_path: 0.1296740747150324

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.529606580734253 seconds

Loss: 0.6167

Train Accuracy: 78.16%
Test Accuracy: 74.90%
Google Drive already mounted.
Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6065161228179932 seconds
LR changed during epoch: 2.86e-04 -> 2.84e-04
total runtime to train this model was 26.351927757263184 seconds
Hyperparameteres for model 3 at epoch 33
lr: 0.0002944566017326581

weight_decay: 0.10105620967938464

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.3910446166992188 seconds

Loss: 0.7657

Train Accuracy: 72.83%

Test Accuracy: 72.51%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.6845471858978271 seconds
LR changed during epoch: 2.04e-04 -> 2.03e-04
total runtime to train this model was 26.738951683044434 seconds
Hyperparameteres for model 4 at epoch 33
lr: 0.0002045638731974187

weight_decay: 0.13877369675569298

drop_path: 0.14274668347616418

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4135756492614746 seconds

Loss: 0.6466

Train Accuracy: 77.06%

Test Accuracy: 74.98%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 33 Summary:

=====
Time: 156.88s (Avg member: 31.38s)

Population Mean Accuracy: 73.98%

Best Member Accuracy: 74.98%

Mean Batch Size: 256

Mean Learning Rate: 3.20e-04

Mean Weight Decay: 0.091
=====

Epoch 34/70

=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.5655500888824463 seconds
LR changed during epoch: 1.89e-04 -> 1.86e-04
total runtime to train this model was 26.70449447631836 seconds
Hyperparameteres for model 0 at epoch 34
lr: 0.0002093346085927156

weight_decay: 0.020167863673195178

drop_path: 0.011199048788492972

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3818891048431396 seconds

Loss: 0.6477

Train Accuracy: 77.06%

Test Accuracy: 73.50%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6054985523223877 seconds
LR changed during epoch: 4.15e-04 -> 3.99e-04
total runtime to train this model was 26.806705951690674 seconds
Hyperparameteres for model 1 at epoch 34
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.435457944869995 seconds

Loss: 0.6587

Train Accuracy: 76.84%

Test Accuracy: 74.54%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6840367317199707 seconds
LR changed during epoch: 1.27e-04 -> 1.69e-04
total runtime to train this model was 26.161132335662842 seconds
Hyperparameteres for model 2 at epoch 34
lr: 0.0002114671451119209

weight_decay: 0.08864572024680437

drop_path: 0.1296740747150324

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.5808498859405518 seconds

Loss: 0.6268

Train Accuracy: 77.78%

Test Accuracy: 75.04%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.5979156494140625 seconds

LR changed during epoch: 2.84e-04 -> 2.81e-04

total runtime to train this model was 26.786388874053955 seconds

Hyperparameteres for model 3 at epoch 34

lr: 0.0002944566017326581

weight_decay: 0.10105620967938464

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4553630352020264 seconds

Loss: 0.7484

Train Accuracy: 73.42%

Test Accuracy: 72.05%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.5659141540527344 seconds

LR changed during epoch: 2.03e-04 -> 2.03e-04

total runtime to train this model was 26.880686283111572 seconds

Hyperparameteres for model 4 at epoch 34

lr: 0.0002045638731974187

weight_decay: 0.13877369675569298

drop_path: 0.14274668347616418

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.451125144958496 seconds

Loss: 0.6408

Train Accuracy: 77.15%

Test Accuracy: 74.40%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 34 Summary:

=====
Time: 155.91s (Avg member: 31.18s)

Population Mean Accuracy: 73.91%

Best Member Accuracy: 75.04%

Mean Batch Size: 256
Mean Learning Rate: 3.20e-04
Mean Weight Decay: 0.091

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.5817162990570068 seconds
LR changed during epoch: 1.86e-04 -> 1.83e-04
total runtime to train this model was 26.64997673034668 seconds
Hyperparameteres for model 0 at epoch 35
lr: 0.0002093346085927156

weight_decay: 0.020167863673195178

drop_path: 0.011199048788492972

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.579619884490967 seconds

Loss: 0.6326

Train Accuracy: 77.49%

Test Accuracy: 73.87%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.7273099422454834 seconds
LR changed during epoch: 3.99e-04 -> 3.83e-04
total runtime to train this model was 26.07201313972473 seconds
Hyperparameteres for model 1 at epoch 35
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.2943615913391113 seconds

Loss: 0.6433

Train Accuracy: 77.27%

Test Accuracy: 75.29%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.611149549484253 seconds
LR changed during epoch: 1.69e-04 -> 2.11e-04
total runtime to train this model was 26.87507700920105 seconds
Hyperparameteres for model 2 at epoch 35
lr: 0.0002114671451119209

weight_decay: 0.08864572024680437

drop_path: 0.1296740747150324

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4808340072631836 seconds

Loss: 0.6326

Train Accuracy: 77.68%

Test Accuracy: 74.74%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.5752530097961426 seconds

LR changed during epoch: 2.81e-04 -> 2.78e-04

total runtime to train this model was 26.6182062625885 seconds

Hyperparameteres for model 3 at epoch 35

lr: 0.0002944566017326581

weight_decay: 0.10105620967938464

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.489319086074829 seconds

Loss: 0.7409

Train Accuracy: 73.65%

Test Accuracy: 73.03%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.6243250370025635 seconds

LR changed during epoch: 2.03e-04 -> 2.02e-04

total runtime to train this model was 27.361321926116943 seconds

Hyperparameteres for model 4 at epoch 35

lr: 0.0002045638731974187

weight_decay: 0.13877369675569298

drop_path: 0.14274668347616418

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.192129611968994 seconds

Loss: 0.6307

Train Accuracy: 77.61%

Test Accuracy: 74.57%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

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

=== PBT Exploit & Explore ===

Top performers: [75.29]

Bottom performers: [73.03]

Member 3: lr changed from 0.0002944566017326581 to 0.00020752310190649085

Member 3: weight_decay changed from 0.10105620967938464 to 0.07600507208288526

Member 3 copied from 1

LR=2.08e-04, WD=0.076, DropPath=0.200, Warmup=5 epochs, Batch=256

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

Time: 157.04s (Avg member: 31.40s)

Population Mean Accuracy: 74.30%

Best Member Accuracy: 75.29%

Mean Batch Size: 256

Mean Learning Rate: 3.03e-04

Mean Weight Decay: 0.086

=====

Epoch 36/70
=====

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

built data in 1.7282977104187012 seconds

LR changed during epoch: 1.83e-04 -> 1.80e-04

total runtime to train this model was 27.19623064994812 seconds

Hyperparameteres for model 0 at epoch 36

lr: 0.0002093346085927156

weight_decay: 0.020167863673195178

drop_path: 0.011199048788492972

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.485199451446533 seconds

Loss: 0.6211

Train Accuracy: 77.94%

Test Accuracy: 73.40%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.6056640148162842 seconds

LR changed during epoch: 3.83e-04 -> 3.66e-04

total runtime to train this model was 27.341641187667847 seconds

Hyperparameteres for model 1 at epoch 36

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4981470108032227 seconds

Loss: 0.6245

Train Accuracy: 77.90%

Test Accuracy: 74.97%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.5889418125152588 seconds

LR changed during epoch: 2.11e-04 -> 2.11e-04

total runtime to train this model was 27.00930428504944 seconds

Hyperparameteres for model 2 at epoch 36

lr: 0.0002114671451119209

weight_decay: 0.08864572024680437

drop_path: 0.1296740747150324

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4539880752563477 seconds

Loss: 0.6346

Train Accuracy: 77.64%

Test Accuracy: 75.02%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.7118396759033203 seconds

LR changed during epoch: 2.12e-07 -> 4.17e-05

total runtime to train this model was 26.260987520217896 seconds

Hyperparameteres for model 3 at epoch 36

lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.745326280593872 seconds

Loss: 0.5865

Train Accuracy: 79.13%

Test Accuracy: 76.49%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.5786356925964355 seconds

LR changed during epoch: 2.02e-04 -> 2.00e-04

total runtime to train this model was 27.030537366867065 seconds

Hyperparameteres for model 4 at epoch 36

lr: 0.0002045638731974187

weight_decay: 0.13877369675569298

drop_path: 0.14274668347616418

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.405257225036621 seconds

Loss: 0.6199

Train Accuracy: 77.81%

Test Accuracy: 75.05%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

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

Time: 157.84s (Avg member: 31.57s)

Population Mean Accuracy: 74.99%

Best Member Accuracy: 76.49%

Mean Batch Size: 256

Mean Learning Rate: 3.03e-04

Mean Weight Decay: 0.086

=====

Epoch 37/70
=====

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

built data in 1.6261520385742188 seconds

LR changed during epoch: 1.80e-04 -> 1.76e-04

total runtime to train this model was 27.13309931755066 seconds

Hyperparameteres for model 0 at epoch 37

lr: 0.0002093346085927156

weight_decay: 0.020167863673195178

drop_path: 0.011199048788492972

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.522352695465088 seconds

Loss: 0.6084

Train Accuracy: 78.35%

Test Accuracy: 74.08%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.5871999263763428 seconds

LR changed during epoch: 3.66e-04 -> 3.50e-04

total runtime to train this model was 27.57970881462097 seconds

Hyperparameteres for model 1 at epoch 37

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.0689918994903564 seconds

Loss: 0.6141

Train Accuracy: 78.17%

Test Accuracy: 75.47%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.745995283126831 seconds

LR changed during epoch: 2.11e-04 -> 2.11e-04

total runtime to train this model was 26.97340679168701 seconds

Hyperparameteres for model 2 at epoch 37

lr: 0.0002114671451119209

weight_decay: 0.08864572024680437

drop_path: 0.1296740747150324

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.537379264831543 seconds

Loss: 0.6243

Train Accuracy: 77.82%

Test Accuracy: 75.06%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.6323857307434082 seconds

LR changed during epoch: 4.17e-05 -> 8.32e-05

total runtime to train this model was 26.52490735054016 seconds

Hyperparameteres for model 3 at epoch 37

lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4309680461883545 seconds

Loss: 0.5524

Train Accuracy: 80.56%

Test Accuracy: 77.15%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.6120843887329102 seconds

LR changed during epoch: 2.00e-04 -> 1.99e-04

total runtime to train this model was 26.886715412139893 seconds

Hyperparameteres for model 4 at epoch 37
lr: 0.0002045638731974187

weight_decay: 0.13877369675569298

drop_path: 0.14274668347616418

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.459301471710205 seconds

Loss: 0.6149

Train Accuracy: 78.03%

Test Accuracy: 75.50%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 37 Summary:

=====
Time: 157.54s (Avg member: 31.51s)

Population Mean Accuracy: 75.45%

Best Member Accuracy: 77.15%

Mean Batch Size: 256

Mean Learning Rate: 3.03e-04

Mean Weight Decay: 0.086

=====
Epoch 38/70

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

built data in 1.9253015518188477 seconds

LR changed during epoch: 1.76e-04 -> 1.72e-04

total runtime to train this model was 25.978849172592163 seconds

Hyperparameteres for model 0 at epoch 38

lr: 0.0002093346085927156

weight_decay: 0.020167863673195178

drop_path: 0.011199048788492972

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.7581164836883545 seconds

Loss: 0.5967

Train Accuracy: 78.71%

Test Accuracy: 73.70%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.6082310676574707 seconds

LR changed during epoch: 3.50e-04 -> 3.33e-04

total runtime to train this model was 26.785261392593384 seconds

Hyperparameteres for model 1 at epoch 38

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.518873691558838 seconds

Loss: 0.5951

Train Accuracy: 78.88%

Test Accuracy: 75.41%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.638139247894287 seconds

LR changed during epoch: 2.11e-04 -> 2.10e-04

total runtime to train this model was 27.06542158126831 seconds

Hyperparameteres for model 2 at epoch 38

lr: 0.0002114671451119209

weight_decay: 0.08864572024680437

drop_path: 0.1296740747150324

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.571336030960083 seconds

Loss: 0.6188

Train Accuracy: 77.96%

Test Accuracy: 74.97%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.6029860973358154 seconds

LR changed during epoch: 8.32e-05 -> 1.25e-04

total runtime to train this model was 27.078320026397705 seconds

Hyperparameteres for model 3 at epoch 38

lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9452617168426514 seconds

Loss: 0.5481

Train Accuracy: 80.66%

Test Accuracy: 77.19%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.819030523300171 seconds
LR changed during epoch: 1.99e-04 -> 1.97e-04
total runtime to train this model was 26.607136964797974 seconds
Hyperparameteres for model 4 at epoch 38
lr: 0.0002045638731974187

weight_decay: 0.13877369675569298

drop_path: 0.14274668347616418

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.774939775466919 seconds

Loss: 0.6090

Train Accuracy: 78.55%

Test Accuracy: 75.38%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 38 Summary:
=====

Time: 157.91s (Avg member: 31.58s)

Population Mean Accuracy: 75.33%

Best Member Accuracy: 77.19%

Mean Batch Size: 256

Mean Learning Rate: 3.03e-04

Mean Weight Decay: 0.086
=====

Epoch 39/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.5854666233062744 seconds
LR changed during epoch: 1.72e-04 -> 1.68e-04
total runtime to train this model was 26.992356777191162 seconds
Hyperparameteres for model 0 at epoch 39
lr: 0.0002093346085927156

weight_decay: 0.020167863673195178

drop_path: 0.011199048788492972

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5014657974243164 seconds

Loss: 0.5874

Train Accuracy: 79.13%

Test Accuracy: 74.77%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.6017489433288574 seconds
LR changed during epoch: 3.33e-04 -> 3.17e-04
total runtime to train this model was 27.121906280517578 seconds
Hyperparameteres for model 1 at epoch 39
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4622223377227783 seconds

Loss: 0.5807

Train Accuracy: 79.32%

Test Accuracy: 76.41%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.7109124660491943 seconds

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

total runtime to train this model was 26.95278811454773 seconds

Hyperparameteres for model 2 at epoch 39

lr: 0.0002114671451119209

weight_decay: 0.08864572024680437

drop_path: 0.1296740747150324

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.6154818534851074 seconds

Loss: 0.6102

Train Accuracy: 78.30%

Test Accuracy: 75.79%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.6167817115783691 seconds

LR changed during epoch: 1.25e-04 -> 1.66e-04

total runtime to train this model was 26.950778245925903 seconds

Hyperparameteres for model 3 at epoch 39

lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.585071325302124 seconds

Loss: 0.5502
Train Accuracy: 80.28%
Test Accuracy: 77.01%
Google Drive already mounted.
Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.5994293689727783 seconds
LR changed during epoch: 1.97e-04 -> 1.95e-04
total runtime to train this model was 26.950985193252563 seconds
Hyperparameteres for model 4 at epoch 39
lr: 0.0002045638731974187

weight_decay: 0.13877369675569298

drop_path: 0.14274668347616418

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5046980381011963 seconds

Loss: 0.5935
Train Accuracy: 78.71%
Test Accuracy: 75.63%
Google Drive already mounted.
Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 39 Summary:
=====

Time: 157.95s (Avg member: 31.59s)
Population Mean Accuracy: 75.92%
Best Member Accuracy: 77.01%
Mean Batch Size: 256
Mean Learning Rate: 3.03e-04
Mean Weight Decay: 0.086

=====
Epoch 40/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.6032040119171143 seconds
LR changed during epoch: 1.68e-04 -> 1.64e-04
total runtime to train this model was 26.983084678649902 seconds
Hyperparameteres for model 0 at epoch 40
lr: 0.0002093346085927156

weight_decay: 0.020167863673195178

drop_path: 0.011199048788492972

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.717153787612915 seconds

Loss: 0.5738
Train Accuracy: 79.74%

Test Accuracy: 74.72%
Google Drive already mounted.
Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6929523944854736 seconds
LR changed during epoch: 3.17e-04 -> 3.01e-04
total runtime to train this model was 26.44909691810608 seconds
Hyperparameteres for model 1 at epoch 40
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.1122801303863525 seconds
Loss: 0.5662
Train Accuracy: 79.82%
Test Accuracy: 76.42%

Google Drive already mounted.
Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.576552152633667 seconds
LR changed during epoch: 2.10e-04 -> 2.08e-04
total runtime to train this model was 26.876869916915894 seconds
Hyperparameteres for model 2 at epoch 40
lr: 0.0002114671451119209

weight_decay: 0.08864572024680437

drop_path: 0.1296740747150324

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.431004047393799 seconds
Loss: 0.5988
Train Accuracy: 78.81%
Test Accuracy: 75.59%

Google Drive already mounted.
Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6018781661987305 seconds
LR changed during epoch: 1.66e-04 -> 2.08e-04
total runtime to train this model was 26.87737536430359 seconds
Hyperparameteres for model 3 at epoch 40
lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.351909875869751 seconds

Loss: 0.5495

Train Accuracy: 80.40%

Test Accuracy: 77.06%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.5995056629180908 seconds

LR changed during epoch: 1.95e-04 -> 1.93e-04

total runtime to train this model was 26.96898055076599 seconds

Hyperparameteres for model 4 at epoch 40

lr: 0.0002045638731974187

weight_decay: 0.13877369675569298

drop_path: 0.14274668347616418

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.0701005458831787 seconds

Loss: 0.5821

Train Accuracy: 79.37%

Test Accuracy: 75.69%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

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

=== PBT Exploit & Explore ===

Top performers: [77.06]

Bottom performers: [74.72]

Member 0: lr changed from 0.0002093346085927156 to 0.00013871094808629513

Member 0: weight_decay changed from 0.020167863673195178 to 0.02

Member 0: drop_path changed from 0.011199048788492972 to 0.037085475820983704

Member 0 copied from 3

LR=1.39e-04, WD=0.020, DropPath=0.037, Warmup=5 epochs, Batch=256

=====
Epoch 40 Summary:

=====
Time: 157.34s (Avg member: 31.46s)

Population Mean Accuracy: 75.90%

Best Member Accuracy: 77.06%

Mean Batch Size: 256

Mean Learning Rate: 2.89e-04

Mean Weight Decay: 0.086

=====
Epoch 41/70

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

built data in 1.7243387699127197 seconds

LR changed during epoch: 1.42e-07 -> 2.79e-05

total runtime to train this model was 26.55947208404541 seconds

Hyperparameteres for model 0 at epoch 41

lr: 0.00013871094808629513

weight_decay: 0.02

drop_path: 0.037085475820983704

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.6330337524414062 seconds

Loss: 0.4755

Train Accuracy: 83.22%

Test Accuracy: 77.77%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.5996620655059814 seconds

LR changed during epoch: 3.01e-04 -> 2.84e-04

total runtime to train this model was 26.911497831344604 seconds

Hyperparameteres for model 1 at epoch 41

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.504786729812622 seconds

Loss: 0.5466

Train Accuracy: 80.56%

Test Accuracy: 76.52%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.592360496520996 seconds

LR changed during epoch: 2.08e-04 -> 2.07e-04

total runtime to train this model was 26.877978801727295 seconds

Hyperparameteres for model 2 at epoch 41

lr: 0.0002114671451119209

weight_decay: 0.08864572024680437

drop_path: 0.1296740747150324

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5420424938201904 seconds

Loss: 0.5892

Train Accuracy: 79.06%

Test Accuracy: 75.80%
Google Drive already mounted.
Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.725907802581787 seconds
LR changed during epoch: 2.08e-04 -> 2.07e-04
total runtime to train this model was 26.48357319831848 seconds
Hyperparameteres for model 3 at epoch 41
lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.5824029445648193 seconds
Loss: 0.5521
Train Accuracy: 80.29%
Test Accuracy: 76.90%

Google Drive already mounted.
Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.5932514667510986 seconds
LR changed during epoch: 1.93e-04 -> 1.91e-04
total runtime to train this model was 26.719367504119873 seconds
Hyperparameteres for model 4 at epoch 41
lr: 0.0002045638731974187

weight_decay: 0.13877369675569298

drop_path: 0.14274668347616418

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.7242536544799805 seconds
Loss: 0.5747
Train Accuracy: 79.61%
Test Accuracy: 76.25%

Google Drive already mounted.
Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 41 Summary:

=====
Time: 156.97s (Avg member: 31.39s)
Population Mean Accuracy: 76.65%
Best Member Accuracy: 77.77%
Mean Batch Size: 256
Mean Learning Rate: 2.89e-04
Mean Weight Decay: 0.086

=====
Epoch 42/70

=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.6548354625701904 seconds
LR changed during epoch: 2.79e-05 -> 5.56e-05
total runtime to train this model was 27.22756862640381 seconds
Hyperparameteres for model 0 at epoch 42
lr: 0.00013871094808629513

weight_decay: 0.02

drop_path: 0.037085475820983704

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.884263277053833 seconds

Loss: 0.4536

Train Accuracy: 83.92%

Test Accuracy: 77.69%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6804029941558838 seconds
LR changed during epoch: 2.84e-04 -> 2.68e-04
total runtime to train this model was 26.775255918502808 seconds
Hyperparameteres for model 1 at epoch 42
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 4.25542140007019 seconds

Loss: 0.5286

Train Accuracy: 81.39%

Test Accuracy: 76.39%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6175181865692139 seconds
LR changed during epoch: 2.07e-04 -> 2.05e-04
total runtime to train this model was 27.408135652542114 seconds
Hyperparameteres for model 2 at epoch 42
lr: 0.0002114671451119209

weight_decay: 0.08864572024680437

drop_path: 0.1296740747150324

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.825899600982666 seconds

Loss: 0.5819

Train Accuracy: 79.20%

Test Accuracy: 75.62%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.6250088214874268 seconds

LR changed during epoch: 2.07e-04 -> 2.07e-04

total runtime to train this model was 27.313039302825928 seconds

Hyperparameteres for model 3 at epoch 42

lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.923405885696411 seconds

Loss: 0.5464

Train Accuracy: 80.48%

Test Accuracy: 77.07%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.6663410663604736 seconds

LR changed during epoch: 1.91e-04 -> 1.88e-04

total runtime to train this model was 26.61689066886902 seconds

Hyperparameteres for model 4 at epoch 42

lr: 0.0002045638731974187

weight_decay: 0.13877369675569298

drop_path: 0.14274668347616418

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.4665720462799072 seconds

Loss: 0.5686

Train Accuracy: 79.74%

Test Accuracy: 75.88%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 42 Summary:

=====
Time: 161.41s (Avg member: 32.28s)

Population Mean Accuracy: 76.53%

Best Member Accuracy: 77.69%

Mean Batch Size: 256

Mean Learning Rate: 2.89e-04
Mean Weight Decay: 0.086

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.6273446083068848 seconds
LR changed during epoch: 5.56e-05 -> 8.34e-05
total runtime to train this model was 27.295202493667603 seconds
Hyperparameteres for model 0 at epoch 43
lr: 0.00013871094808629513

weight_decay: 0.02

drop_path: 0.037085475820983704

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.386579990386963 seconds

Loss: 0.4527

Train Accuracy: 83.99%

Test Accuracy: 77.66%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.5678813457489014 seconds
LR changed during epoch: 2.68e-04 -> 2.52e-04
total runtime to train this model was 26.944839477539062 seconds
Hyperparameteres for model 1 at epoch 43
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.397995710372925 seconds

Loss: 0.5144

Train Accuracy: 81.58%

Test Accuracy: 76.84%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6081509590148926 seconds
LR changed during epoch: 2.05e-04 -> 2.04e-04
total runtime to train this model was 26.654357194900513 seconds
Hyperparameteres for model 2 at epoch 43
lr: 0.0002114671451119209

weight_decay: 0.08864572024680437

drop_path: 0.1296740747150324

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.51928973197937 seconds

Loss: 0.5709

Train Accuracy: 79.62%

Test Accuracy: 76.22%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.70418381690979 seconds

LR changed during epoch: 2.07e-04 -> 2.06e-04

total runtime to train this model was 26.498584747314453 seconds

Hyperparameteres for model 3 at epoch 43

lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.6692090034484863 seconds

Loss: 0.5370

Train Accuracy: 80.90%

Test Accuracy: 77.16%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.5866005420684814 seconds

LR changed during epoch: 1.88e-04 -> 1.85e-04

total runtime to train this model was 26.854860067367554 seconds

Hyperparameteres for model 4 at epoch 43

lr: 0.0002045638731974187

weight_decay: 0.13877369675569298

drop_path: 0.14274668347616418

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.524121046066284 seconds

Loss: 0.5568

Train Accuracy: 80.25%

Test Accuracy: 76.34%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 43 Summary:

```
=====
Time: 157.07s (Avg member: 31.41s)
Population Mean Accuracy: 76.84%
Best Member Accuracy: 77.66%
Mean Batch Size: 256
Mean Learning Rate: 2.89e-04
Mean Weight Decay: 0.086
=====
```

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

```
--- Training Member 0 (Batch size: 256) ---
built data in 1.6224479675292969 seconds
LR changed during epoch: 8.34e-05 -> 1.11e-04
total runtime to train this model was 26.725364446640015 seconds
Hyperparameteres for model 0 at epoch 44
lr: 0.00013871094808629513
```

weight_decay: 0.02

drop_path: 0.037085475820983704

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.504188060760498 seconds

Loss: 0.4529

Train Accuracy: 84.03%

Test Accuracy: 77.37%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

```
--- Training Member 1 (Batch size: 256) ---
built data in 1.5759525299072266 seconds
LR changed during epoch: 2.52e-04 -> 2.36e-04
total runtime to train this model was 26.54894781112671 seconds
Hyperparameteres for model 1 at epoch 44
lr: 0.0006822954313705238
```

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.7994699478149414 seconds

Loss: 0.4962

Train Accuracy: 82.18%

Test Accuracy: 77.12%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

```
--- Training Member 2 (Batch size: 256) ---
built data in 1.7531931400299072 seconds
LR changed during epoch: 2.04e-04 -> 2.02e-04
total runtime to train this model was 26.245533227920532 seconds
```

Hyperparameteres for model 2 at epoch 44
lr: 0.0002114671451119209

weight_decay: 0.08864572024680437

drop_path: 0.1296740747150324

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.1226704120635986 seconds
Loss: 0.5578

Train Accuracy: 80.24%

Test Accuracy: 76.24%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.5931177139282227 seconds

LR changed during epoch: 2.06e-04 -> 2.06e-04

total runtime to train this model was 27.074979543685913 seconds

Hyperparameteres for model 3 at epoch 44

lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4281747341156006 seconds
Loss: 0.5307

Train Accuracy: 81.13%

Test Accuracy: 77.00%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.6004395484924316 seconds

LR changed during epoch: 1.85e-04 -> 1.82e-04

total runtime to train this model was 26.472384452819824 seconds

Hyperparameteres for model 4 at epoch 44

lr: 0.0002045638731974187

weight_decay: 0.13877369675569298

drop_path: 0.14274668347616418

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.3822031021118164 seconds
Loss: 0.5531

Train Accuracy: 80.17%

Test Accuracy: 76.00%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

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

Time: 155.69s (Avg member: 31.14s)
Population Mean Accuracy: 76.75%
Best Member Accuracy: 77.37%
Mean Batch Size: 256
Mean Learning Rate: 2.89e-04
Mean Weight Decay: 0.086

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.5974996089935303 seconds
LR changed during epoch: 1.11e-04 -> 1.39e-04
total runtime to train this model was 26.69863247871399 seconds
Hyperparameteres for model 0 at epoch 45
lr: 0.00013871094808629513

weight_decay: 0.02

drop_path: 0.037085475820983704

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.2232041358947754 seconds
Loss: 0.4469
Train Accuracy: 84.17%
Test Accuracy: 77.18%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6430816650390625 seconds
LR changed during epoch: 2.36e-04 -> 2.21e-04
total runtime to train this model was 26.78753638267517 seconds
Hyperparameteres for model 1 at epoch 45
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4817986488342285 seconds
Loss: 0.4813
Train Accuracy: 82.78%
Test Accuracy: 77.49%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.5958006381988525 seconds
LR changed during epoch: 2.02e-04 -> 1.99e-04
total runtime to train this model was 26.795661687850952 seconds
Hyperparameteres for model 2 at epoch 45
lr: 0.0002114671451119209

weight_decay: 0.08864572024680437

drop_path: 0.1296740747150324

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.385338544845581 seconds

Loss: 0.5538

Train Accuracy: 80.29%

Test Accuracy: 75.79%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.568636417388916 seconds
LR changed during epoch: 2.06e-04 -> 2.05e-04
total runtime to train this model was 26.406054973602295 seconds
Hyperparameteres for model 3 at epoch 45
lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3994526863098145 seconds

Loss: 0.5165

Train Accuracy: 81.75%

Test Accuracy: 76.94%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.6790642738342285 seconds
LR changed during epoch: 1.82e-04 -> 1.79e-04
total runtime to train this model was 26.53633403778076 seconds
Hyperparameteres for model 4 at epoch 45
lr: 0.0002045638731974187

weight_decay: 0.13877369675569298

drop_path: 0.14274668347616418

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.625908136367798 seconds

Loss: 0.5389

Train Accuracy: 80.80%

Test Accuracy: 76.54%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

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

=== PBT Exploit & Explore ===

Top performers: [77.49]

Bottom performers: [75.79]

Member 2: lr changed from 0.0002114671451119209 to 0.00030445076700232564

Member 2: weight_decay changed from 0.08864572024680437 to 0.08856475376797104

Member 2: drop_path changed from 0.1296740747150324 to 0.10660216439958413

Member 2 copied from 1

LR=3.04e-04, WD=0.089, DropPath=0.107, Warmup=5 epochs, Batch=256

=====
Epoch 45 Summary:

Time: 156.72s (Avg member: 31.34s)

Population Mean Accuracy: 76.79%

Best Member Accuracy: 77.49%

Mean Batch Size: 256

Mean Learning Rate: 3.08e-04

Mean Weight Decay: 0.086

=====
Epoch 46/70

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

built data in 1.564884901046753 seconds

LR changed during epoch: 1.39e-04 -> 1.39e-04

total runtime to train this model was 26.499239921569824 seconds

Hyperparameteres for model 0 at epoch 46

lr: 0.00013871094808629513

weight_decay: 0.02

drop_path: 0.037085475820983704

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.506812334060669 seconds

Loss: 0.4525

Train Accuracy: 83.91%

Test Accuracy: 77.38%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.5829391479492188 seconds

LR changed during epoch: 2.21e-04 -> 2.06e-04

total runtime to train this model was 26.574424982070923 seconds

Hyperparameteres for model 1 at epoch 46

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.373887777328491 seconds

Loss: 0.4610

Train Accuracy: 83.62%

Test Accuracy: 77.80%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.5759735107421875 seconds

LR changed during epoch: 3.11e-07 -> 6.12e-05

total runtime to train this model was 26.327807426452637 seconds

Hyperparameteres for model 2 at epoch 46

lr: 0.00030445076700232564

weight_decay: 0.08856475376797104

drop_path: 0.10660216439958413

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.390871286392212 seconds

Loss: 0.4214

Train Accuracy: 85.03%

Test Accuracy: 78.14%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.839688777923584 seconds

LR changed during epoch: 2.05e-04 -> 2.03e-04

total runtime to train this model was 26.144217252731323 seconds

Hyperparameteres for model 3 at epoch 46

lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.6335208415985107 seconds

Loss: 0.5132

Train Accuracy: 81.61%

Test Accuracy: 77.27%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.6192851066589355 seconds
LR changed during epoch: 1.79e-04 -> 1.76e-04
total runtime to train this model was 26.896434783935547 seconds
Hyperparameteres for model 4 at epoch 46
lr: 0.0002045638731974187

weight_decay: 0.13877369675569298

drop_path: 0.14274668347616418

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.3924314975738525 seconds

Loss: 0.5363

Train Accuracy: 81.09%

Test Accuracy: 76.31%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 46 Summary:

=====
Time: 155.10s (Avg member: 31.02s)

Population Mean Accuracy: 77.38%

Best Member Accuracy: 78.14%

Mean Batch Size: 256

Mean Learning Rate: 3.08e-04

Mean Weight Decay: 0.086

=====
Epoch 47/70

=====
--- Training Member 0 (Batch size: 256) ---
built data in 1.582784652709961 seconds
LR changed during epoch: 1.39e-04 -> 1.38e-04
total runtime to train this model was 26.999993801116943 seconds
Hyperparameteres for model 0 at epoch 47
lr: 0.00013871094808629513

weight_decay: 0.02

drop_path: 0.037085475820983704

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4314448833465576 seconds

Loss: 0.4363

Train Accuracy: 84.47%

Test Accuracy: 77.35%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.596010446548462 seconds
LR changed during epoch: 2.06e-04 -> 1.91e-04
total runtime to train this model was 26.637444019317627 seconds
Hyperparameteres for model 1 at epoch 47
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.775702714920044 seconds

Loss: 0.4513

Train Accuracy: 83.85%

Test Accuracy: 77.25%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.7351782321929932 seconds

LR changed during epoch: 6.12e-05 -> 1.22e-04

total runtime to train this model was 26.504058599472046 seconds

Hyperparameteres for model 2 at epoch 47

lr: 0.00030445076700232564

weight_decay: 0.08856475376797104

drop_path: 0.10660216439958413

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.8645379543304443 seconds

Loss: 0.4099

Train Accuracy: 85.43%

Test Accuracy: 78.37%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.5676958560943604 seconds

LR changed during epoch: 2.03e-04 -> 2.02e-04

total runtime to train this model was 26.838240146636963 seconds

Hyperparameteres for model 3 at epoch 47

lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4368679523468018 seconds

Loss: 0.5063
Train Accuracy: 81.99%
Test Accuracy: 77.20%
Google Drive already mounted.
Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.6027064323425293 seconds
LR changed during epoch: 1.76e-04 -> 1.72e-04
total runtime to train this model was 26.963201999664307 seconds
Hyperparameteres for model 4 at epoch 47
lr: 0.0002045638731974187

weight_decay: 0.13877369675569298

drop_path: 0.14274668347616418

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4171082973480225 seconds

Loss: 0.5236
Train Accuracy: 81.37%
Test Accuracy: 77.00%
Google Drive already mounted.
Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 47 Summary:
=====

Time: 156.25s (Avg member: 31.25s)
Population Mean Accuracy: 77.43%
Best Member Accuracy: 78.37%
Mean Batch Size: 256
Mean Learning Rate: 3.08e-04
Mean Weight Decay: 0.086

=====
Epoch 48/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.6569805145263672 seconds
LR changed during epoch: 1.38e-04 -> 1.38e-04
total runtime to train this model was 26.373913049697876 seconds
Hyperparameteres for model 0 at epoch 48
lr: 0.00013871094808629513

weight_decay: 0.02

drop_path: 0.037085475820983704

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.790085792541504 seconds

Loss: 0.4286
Train Accuracy: 84.62%

Test Accuracy: 77.70%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.6093769073486328 seconds

LR changed during epoch: 1.91e-04 -> 1.76e-04

total runtime to train this model was 27.03654646873474 seconds

Hyperparameteres for model 1 at epoch 48

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.463667154312134 seconds

Loss: 0.4371

Train Accuracy: 84.44%

Test Accuracy: 78.17%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.6137535572052002 seconds

LR changed during epoch: 1.22e-04 -> 1.83e-04

total runtime to train this model was 26.72380828857422 seconds

Hyperparameteres for model 2 at epoch 48

lr: 0.00030445076700232564

weight_decay: 0.08856475376797104

drop_path: 0.10660216439958413

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3912506103515625 seconds

Loss: 0.4153

Train Accuracy: 85.28%

Test Accuracy: 77.81%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.5916292667388916 seconds

LR changed during epoch: 2.02e-04 -> 2.00e-04

total runtime to train this model was 26.889350414276123 seconds

Hyperparameteres for model 3 at epoch 48

lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.59684157371521 seconds

Loss: 0.4989

Train Accuracy: 82.17%

Test Accuracy: 77.63%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.7715091705322266 seconds

LR changed during epoch: 1.72e-04 -> 1.68e-04

total runtime to train this model was 25.915553331375122 seconds

Hyperparameteres for model 4 at epoch 48

lr: 0.0002045638731974187

weight_decay: 0.13877369675569298

drop_path: 0.14274668347616418

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.2109150886535645 seconds

Loss: 0.5104

Train Accuracy: 81.70%

Test Accuracy: 77.18%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 48 Summary:

=====
Time: 156.86s (Avg member: 31.37s)

Population Mean Accuracy: 77.70%

Best Member Accuracy: 78.17%

Mean Batch Size: 256

Mean Learning Rate: 3.08e-04

Mean Weight Decay: 0.086
=====

Epoch 49/70
=====

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

built data in 1.6015465259552002 seconds

LR changed during epoch: 1.38e-04 -> 1.37e-04

total runtime to train this model was 26.776535272598267 seconds

Hyperparameteres for model 0 at epoch 49

lr: 0.00013871094808629513

weight_decay: 0.02

drop_path: 0.037085475820983704

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4456634521484375 seconds

Loss: 0.4205

Train Accuracy: 84.80%

Test Accuracy: 77.40%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.5825374126434326 seconds

LR changed during epoch: 1.76e-04 -> 1.62e-04

total runtime to train this model was 26.598999738693237 seconds

Hyperparameteres for model 1 at epoch 49

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5375750064849854 seconds

Loss: 0.4212

Train Accuracy: 84.93%

Test Accuracy: 78.24%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.6087992191314697 seconds

LR changed during epoch: 1.83e-04 -> 2.44e-04

total runtime to train this model was 26.740750789642334 seconds

Hyperparameteres for model 2 at epoch 49

lr: 0.00030445076700232564

weight_decay: 0.08856475376797104

drop_path: 0.10660216439958413

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5694656372070312 seconds

Loss: 0.4352

Train Accuracy: 84.52%

Test Accuracy: 77.81%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.7853245735168457 seconds

LR changed during epoch: 2.00e-04 -> 1.98e-04

total runtime to train this model was 26.831556797027588 seconds

Hyperparameteres for model 3 at epoch 49

lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9219329357147217 seconds

Loss: 0.4921

Train Accuracy: 82.45%

Test Accuracy: 77.39%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.5710411071777344 seconds

LR changed during epoch: 1.68e-04 -> 1.65e-04

total runtime to train this model was 26.979227542877197 seconds

Hyperparameteres for model 4 at epoch 49

lr: 0.0002045638731974187

weight_decay: 0.13877369675569298

drop_path: 0.14274668347616418

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.443570613861084 seconds

Loss: 0.5045

Train Accuracy: 81.85%

Test Accuracy: 76.95%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 49 Summary:

=====
Time: 156.24s (Avg member: 31.25s)

Population Mean Accuracy: 77.56%

Best Member Accuracy: 78.24%

Mean Batch Size: 256

Mean Learning Rate: 3.08e-04

Mean Weight Decay: 0.086
=====

Epoch 50/70
=====

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

built data in 1.5741569995880127 seconds

LR changed during epoch: 1.37e-04 -> 1.37e-04

total runtime to train this model was 26.696251153945923 seconds

Hyperparameteres for model 0 at epoch 50

lr: 0.00013871094808629513

weight_decay: 0.02

drop_path: 0.037085475820983704

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4304187297821045 seconds

Loss: 0.4114

Train Accuracy: 85.39%

Test Accuracy: 77.35%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.6210570335388184 seconds

LR changed during epoch: 1.62e-04 -> 1.48e-04

total runtime to train this model was 26.65567183494568 seconds

Hyperparameteres for model 1 at epoch 50

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.2873826026916504 seconds

Loss: 0.4055

Train Accuracy: 85.34%

Test Accuracy: 78.72%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.6870522499084473 seconds

LR changed during epoch: 2.44e-04 -> 3.04e-04

total runtime to train this model was 26.948480129241943 seconds

Hyperparameteres for model 2 at epoch 50

lr: 0.00030445076700232564

weight_decay: 0.08856475376797104

drop_path: 0.10660216439958413

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5750105381011963 seconds

Loss: 0.4561

Train Accuracy: 83.69%

Test Accuracy: 77.63%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.6045444011688232 seconds

LR changed during epoch: 1.98e-04 -> 1.96e-04
total runtime to train this model was 27.006203651428223 seconds
Hyperparameteres for model 3 at epoch 50
lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4003281593322754 seconds
Loss: 0.4798

Train Accuracy: 82.90%

Test Accuracy: 78.28%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.5783889293670654 seconds

LR changed during epoch: 1.65e-04 -> 1.61e-04

total runtime to train this model was 26.818220853805542 seconds

Hyperparameteres for model 4 at epoch 50

lr: 0.0002045638731974187

weight_decay: 0.13877369675569298

drop_path: 0.14274668347616418

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4184114933013916 seconds
Loss: 0.4989

Train Accuracy: 82.18%

Test Accuracy: 76.80%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

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

=== PBT Exploit & Explore ===

Top performers: [78.72]

Bottom performers: [76.8]

Member 4: lr changed from 0.0002045638731974187 to 0.0001339074428659792

Member 4: weight_decay changed from 0.13877369675569298 to 0.15

Member 4: drop_path changed from 0.14274668347616418 to 0.12446611801404833

Member 4 copied from 1

LR=1.34e-04, WD=0.150, DropPath=0.124, Warmup=5 epochs, Batch=256

=====
Epoch 50 Summary:

=====
Time: 156.62s (Avg member: 31.32s)

Population Mean Accuracy: 77.76%

Best Member Accuracy: 78.72%

Mean Batch Size: 256

Mean Learning Rate: 2.93e-04
Mean Weight Decay: 0.088

=====
Epoch 51/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.7503628730773926 seconds
LR changed during epoch: 1.37e-04 -> 1.36e-04
total runtime to train this model was 26.353888750076294 seconds
Hyperparameteres for model 0 at epoch 51
lr: 0.00013871094808629513

weight_decay: 0.02

drop_path: 0.037085475820983704

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.4644598960876465 seconds
Loss: 0.4013

Train Accuracy: 85.70%

Test Accuracy: 77.64%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.5994679927825928 seconds
LR changed during epoch: 1.48e-04 -> 1.35e-04
total runtime to train this model was 26.77182912826538 seconds
Hyperparameteres for model 1 at epoch 51
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.525515556335449 seconds
Loss: 0.3895

Train Accuracy: 86.21%

Test Accuracy: 78.71%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.591256856918335 seconds
LR changed during epoch: 3.04e-04 -> 3.04e-04
total runtime to train this model was 26.112662315368652 seconds
Hyperparameteres for model 2 at epoch 51
lr: 0.00030445076700232564

weight_decay: 0.08856475376797104

drop_path: 0.10660216439958413

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3974833488464355 seconds

Loss: 0.4630

Train Accuracy: 83.44%

Test Accuracy: 77.74%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.6083500385284424 seconds

LR changed during epoch: 1.96e-04 -> 1.93e-04

total runtime to train this model was 26.977760553359985 seconds

Hyperparameteres for model 3 at epoch 51

lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.834637403488159 seconds

Loss: 0.4750

Train Accuracy: 82.99%

Test Accuracy: 77.88%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.7154932022094727 seconds

LR changed during epoch: 1.37e-07 -> 2.69e-05

total runtime to train this model was 26.398604154586792 seconds

Hyperparameteres for model 4 at epoch 51

lr: 0.0001339074428659792

weight_decay: 0.15

drop_path: 0.12446611801404833

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.212693929672241 seconds

Loss: 0.3648

Train Accuracy: 87.00%

Test Accuracy: 79.23%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 51 Summary:

```
=====
Time: 156.58s (Avg member: 31.32s)
Population Mean Accuracy: 78.24%
Best Member Accuracy: 79.23%
Mean Batch Size: 256
Mean Learning Rate: 2.93e-04
Mean Weight Decay: 0.088
=====
```

```
=====
Epoch 52/70
=====
```

```
--- Training Member 0 (Batch size: 256) ---
built data in 1.5785722732543945 seconds
LR changed during epoch: 1.36e-04 -> 1.35e-04
total runtime to train this model was 26.544761896133423 seconds
Hyperparameteres for model 0 at epoch 52
lr: 0.00013871094808629513
```

weight_decay: 0.02

drop_path: 0.037085475820983704

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.480987071990967 seconds

Loss: 0.3903

Train Accuracy: 86.17%

Test Accuracy: 76.86%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

```
--- Training Member 1 (Batch size: 256) ---
built data in 1.5864064693450928 seconds
LR changed during epoch: 1.35e-04 -> 1.22e-04
total runtime to train this model was 26.35334086418152 seconds
Hyperparameteres for model 1 at epoch 52
lr: 0.0006822954313705238
```

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4970922470092773 seconds

Loss: 0.3859

Train Accuracy: 86.16%

Test Accuracy: 78.28%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

```
--- Training Member 2 (Batch size: 256) ---
built data in 1.6079399585723877 seconds
LR changed during epoch: 3.04e-04 -> 3.04e-04
total runtime to train this model was 26.330974102020264 seconds
```

Hyperparameteres for model 2 at epoch 52
lr: 0.00030445076700232564

weight_decay: 0.08856475376797104

drop_path: 0.10660216439958413

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.819147825241089 seconds

Loss: 0.4574

Train Accuracy: 83.62%

Test Accuracy: 77.69%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.7368998527526855 seconds

LR changed during epoch: 1.93e-04 -> 1.91e-04

total runtime to train this model was 26.36918830871582 seconds

Hyperparameteres for model 3 at epoch 52

lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9365463256835938 seconds

Loss: 0.4686

Train Accuracy: 83.20%

Test Accuracy: 77.74%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.6075096130371094 seconds

LR changed during epoch: 2.69e-05 -> 5.37e-05

total runtime to train this model was 26.290987968444824 seconds

Hyperparameteres for model 4 at epoch 52

lr: 0.0001339074428659792

weight_decay: 0.15

drop_path: 0.12446611801404833

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3369140625 seconds

Loss: 0.3553

Train Accuracy: 87.44%

Test Accuracy: 79.05%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 52 Summary:
=====

Time: 154.34s (Avg member: 30.87s)

Population Mean Accuracy: 77.92%

Best Member Accuracy: 79.05%

Mean Batch Size: 256

Mean Learning Rate: 2.93e-04

Mean Weight Decay: 0.088

=====

Epoch 53/70
=====

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

built data in 1.5861599445343018 seconds

LR changed during epoch: 1.35e-04 -> 1.34e-04

total runtime to train this model was 25.984801530838013 seconds

Hyperparameteres for model 0 at epoch 53

lr: 0.00013871094808629513

weight_decay: 0.02

drop_path: 0.037085475820983704

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3457188606262207 seconds

Loss: 0.3798

Train Accuracy: 86.53%

Test Accuracy: 77.47%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.5552325248718262 seconds

LR changed during epoch: 1.22e-04 -> 1.10e-04

total runtime to train this model was 26.681594133377075 seconds

Hyperparameteres for model 1 at epoch 53

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.8444571495056152 seconds

Loss: 0.3658

Train Accuracy: 87.04%

Test Accuracy: 78.80%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.7613911628723145 seconds
LR changed during epoch: 3.04e-04 -> 3.03e-04
total runtime to train this model was 25.940722942352295 seconds
Hyperparameteres for model 2 at epoch 53
lr: 0.00030445076700232564

weight_decay: 0.08856475376797104

drop_path: 0.10660216439958413

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.0817675590515137 seconds
Loss: 0.4475

Train Accuracy: 84.03%

Test Accuracy: 77.68%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.5611741542816162 seconds
LR changed during epoch: 1.91e-04 -> 1.88e-04
total runtime to train this model was 26.122523307800293 seconds
Hyperparameteres for model 3 at epoch 53
lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.456092119216919 seconds
Loss: 0.4598

Train Accuracy: 83.68%

Test Accuracy: 77.79%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.5942051410675049 seconds
LR changed during epoch: 5.37e-05 -> 8.05e-05
total runtime to train this model was 26.265732049942017 seconds
Hyperparameteres for model 4 at epoch 53
lr: 0.0001339074428659792

weight_decay: 0.15

drop_path: 0.12446611801404833

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3512351512908936 seconds

Loss: 0.3560

Train Accuracy: 87.34%

Test Accuracy: 79.10%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 53 Summary:
=====

Time: 153.36s (Avg member: 30.67s)

Population Mean Accuracy: 78.17%

Best Member Accuracy: 79.10%

Mean Batch Size: 256

Mean Learning Rate: 2.93e-04

Mean Weight Decay: 0.088

=====
Epoch 54/70
=====

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

built data in 1.6091930866241455 seconds

LR changed during epoch: 1.34e-04 -> 1.32e-04

total runtime to train this model was 26.23694944381714 seconds

Hyperparameteres for model 0 at epoch 54

lr: 0.00013871094808629513

weight_decay: 0.02

drop_path: 0.037085475820983704

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.457446813583374 seconds

Loss: 0.3732

Train Accuracy: 86.70%

Test Accuracy: 77.51%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.7283120155334473 seconds

LR changed during epoch: 1.10e-04 -> 9.78e-05

total runtime to train this model was 26.193068265914917 seconds

Hyperparameteres for model 1 at epoch 54

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.57009220123291 seconds

Loss: 0.3491
Train Accuracy: 87.51%
Test Accuracy: 79.05%
Google Drive already mounted.
Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6127586364746094 seconds
LR changed during epoch: 3.03e-04 -> 3.02e-04
total runtime to train this model was 26.750574827194214 seconds
Hyperparameteres for model 2 at epoch 54
lr: 0.00030445076700232564

weight_decay: 0.08856475376797104

drop_path: 0.10660216439958413

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4192607402801514 seconds

Loss: 0.4456
Train Accuracy: 84.14%
Test Accuracy: 77.12%
Google Drive already mounted.
Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.579251766204834 seconds
LR changed during epoch: 1.88e-04 -> 1.85e-04
total runtime to train this model was 26.67427659034729 seconds
Hyperparameteres for model 3 at epoch 54
lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4349052906036377 seconds

Loss: 0.4504
Train Accuracy: 83.89%
Test Accuracy: 78.12%
Google Drive already mounted.
Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.597480058670044 seconds
LR changed during epoch: 8.05e-05 -> 1.07e-04
total runtime to train this model was 27.472803354263306 seconds
Hyperparameteres for model 4 at epoch 54
lr: 0.0001339074428659792

weight_decay: 0.15

drop_path: 0.12446611801404833

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.7304646968841553 seconds

Loss: 0.3517

Train Accuracy: 87.57%

Test Accuracy: 78.99%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 54 Summary:
=====

Time: 156.37s (Avg member: 31.27s)

Population Mean Accuracy: 78.16%

Best Member Accuracy: 79.05%

Mean Batch Size: 256

Mean Learning Rate: 2.93e-04

Mean Weight Decay: 0.088

=====
Epoch 55/70
=====

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

built data in 1.8339338302612305 seconds

LR changed during epoch: 1.32e-04 -> 1.31e-04

total runtime to train this model was 27.467008590698242 seconds

Hyperparameteres for model 0 at epoch 55

lr: 0.00013871094808629513

weight_decay: 0.02

drop_path: 0.037085475820983704

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5203959941864014 seconds

Loss: 0.3604

Train Accuracy: 87.16%

Test Accuracy: 77.30%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.5976059436798096 seconds

LR changed during epoch: 9.78e-05 -> 8.66e-05

total runtime to train this model was 27.37765884399414 seconds

Hyperparameteres for model 1 at epoch 55

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5317859649658203 seconds

Loss: 0.3443

Train Accuracy: 87.72%

Test Accuracy: 78.85%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.620788812637329 seconds

LR changed during epoch: 3.02e-04 -> 3.00e-04

total runtime to train this model was 27.27778935432434 seconds

Hyperparameteres for model 2 at epoch 55

lr: 0.00030445076700232564

weight_decay: 0.08856475376797104

drop_path: 0.10660216439958413

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.457634687423706 seconds

Loss: 0.4332

Train Accuracy: 84.38%

Test Accuracy: 77.63%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.745558261871338 seconds

LR changed during epoch: 1.85e-04 -> 1.82e-04

total runtime to train this model was 26.604949235916138 seconds

Hyperparameteres for model 3 at epoch 55

lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.411865711212158 seconds

Loss: 0.4420

Train Accuracy: 84.17%

Test Accuracy: 78.23%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.622985601425171 seconds

LR changed during epoch: 1.07e-04 -> 1.34e-04

total runtime to train this model was 27.312058210372925 seconds

Hyperparameteres for model 4 at epoch 55

lr: 0.0001339074428659792

weight_decay: 0.15

drop_path: 0.12446611801404833

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5426690578460693 seconds

Loss: 0.3685

Train Accuracy: 86.71%

Test Accuracy: 78.52%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

--- Population Update (Epoch 55) ---

=== PBT Exploit & Explore ===

Top performers: [78.85]

Bottom performers: [77.3]

Member 0: lr changed from 0.00013871094808629513 to 0.00019809738852320964

Member 0: drop_path changed from 0.037085475820983704 to 0.027917752762556362

Member 0 copied from 1

LR=1.98e-04, WD=0.020, DropPath=0.028, Warmup=5 epochs, Batch=256

=====
Epoch 55 Summary:

Time: 159.19s (Avg member: 31.84s)

Population Mean Accuracy: 78.11%

Best Member Accuracy: 78.85%

Mean Batch Size: 256

Mean Learning Rate: 3.05e-04

Mean Weight Decay: 0.088

=====
Epoch 56/70

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

built data in 1.6067397594451904 seconds

LR changed during epoch: 2.02e-07 -> 3.98e-05

total runtime to train this model was 27.202916860580444 seconds

Hyperparameteres for model 0 at epoch 56

lr: 0.00019809738852320964

weight_decay: 0.02

drop_path: 0.027917752762556362

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.502918004989624 seconds

Loss: 0.2786

Train Accuracy: 90.19%

Test Accuracy: 78.88%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.648461103439331 seconds

LR changed during epoch: 8.66e-05 -> 7.60e-05

total runtime to train this model was 26.958256006240845 seconds

Hyperparameteres for model 1 at epoch 56

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.7180447578430176 seconds

Loss: 0.3302

Train Accuracy: 88.30%

Test Accuracy: 78.90%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.600010633468628 seconds

LR changed during epoch: 3.00e-04 -> 2.98e-04

total runtime to train this model was 27.264247179031372 seconds

Hyperparameteres for model 2 at epoch 56

lr: 0.00030445076700232564

weight_decay: 0.08856475376797104

drop_path: 0.10660216439958413

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5703914165496826 seconds

Loss: 0.4235

Train Accuracy: 84.90%

Test Accuracy: 77.91%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.5810575485229492 seconds

LR changed during epoch: 1.82e-04 -> 1.78e-04

total runtime to train this model was 27.28956151008606 seconds

Hyperparameteres for model 3 at epoch 56

lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4588778018951416 seconds

Loss: 0.4353

Train Accuracy: 84.48%

Test Accuracy: 78.40%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.5857462882995605 seconds

LR changed during epoch: 1.34e-04 -> 1.34e-04

total runtime to train this model was 26.909805059432983 seconds

Hyperparameteres for model 4 at epoch 56

lr: 0.0001339074428659792

weight_decay: 0.15

drop_path: 0.12446611801404833

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.8559346199035645 seconds

Loss: 0.3649

Train Accuracy: 86.99%

Test Accuracy: 78.11%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 56 Summary:

=====
Time: 159.02s (Avg member: 31.80s)

Population Mean Accuracy: 78.44%

Best Member Accuracy: 78.90%

Mean Batch Size: 256

Mean Learning Rate: 3.05e-04

Mean Weight Decay: 0.088
=====

Epoch 57/70
=====

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

built data in 1.707397699356079 seconds

LR changed during epoch: 3.98e-05 -> 7.94e-05

total runtime to train this model was 27.217667818069458 seconds

Hyperparameteres for model 0 at epoch 57

lr: 0.00019809738852320964

weight_decay: 0.02

drop_path: 0.027917752762556362

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4430484771728516 seconds

Loss: 0.2754

Train Accuracy: 90.36%

Test Accuracy: 78.69%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.6222026348114014 seconds

LR changed during epoch: 7.60e-05 -> 6.60e-05

total runtime to train this model was 27.006406784057617 seconds

Hyperparameteres for model 1 at epoch 57

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5795156955718994 seconds

Loss: 0.3260

Train Accuracy: 88.52%

Test Accuracy: 78.94%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.605482816696167 seconds

LR changed during epoch: 2.98e-04 -> 2.96e-04

total runtime to train this model was 27.527294158935547 seconds

Hyperparameteres for model 2 at epoch 57

lr: 0.00030445076700232564

weight_decay: 0.08856475376797104

drop_path: 0.10660216439958413

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.639362335205078 seconds

Loss: 0.4233

Train Accuracy: 84.77%

Test Accuracy: 77.46%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.7424898147583008 seconds

LR changed during epoch: 1.78e-04 -> 1.75e-04

total runtime to train this model was 27.327421188354492 seconds

Hyperparameteres for model 3 at epoch 57

lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.0417418479919434 seconds

Loss: 0.4278

Train Accuracy: 84.65%

Test Accuracy: 77.74%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.6488964557647705 seconds

LR changed during epoch: 1.34e-04 -> 1.34e-04

total runtime to train this model was 27.671263933181763 seconds

Hyperparameteres for model 4 at epoch 57

lr: 0.0001339074428659792

weight_decay: 0.15

drop_path: 0.12446611801404833

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5401089191436768 seconds

Loss: 0.3613

Train Accuracy: 87.13%

Test Accuracy: 78.26%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 57 Summary:

=====
Time: 159.58s (Avg member: 31.92s)

Population Mean Accuracy: 78.22%

Best Member Accuracy: 78.94%

Mean Batch Size: 256

Mean Learning Rate: 3.05e-04

Mean Weight Decay: 0.088

=====
Epoch 58/70

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

built data in 1.6135599613189697 seconds

LR changed during epoch: 7.94e-05 -> 1.19e-04

total runtime to train this model was 26.893712997436523 seconds

Hyperparameteres for model 0 at epoch 58

lr: 0.00019809738852320964

weight_decay: 0.02

drop_path: 0.027917752762556362

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.467393636703491 seconds

Loss: 0.2850

Train Accuracy: 90.02%

Test Accuracy: 78.01%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.773099660873413 seconds

LR changed during epoch: 6.60e-05 -> 5.67e-05

total runtime to train this model was 26.09144115447998 seconds

Hyperparameteres for model 1 at epoch 58

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.5437254905700684 seconds

Loss: 0.3094

Train Accuracy: 88.95%

Test Accuracy: 79.10%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.6080784797668457 seconds

LR changed during epoch: 2.96e-04 -> 2.93e-04

total runtime to train this model was 26.960350513458252 seconds

Hyperparameteres for model 2 at epoch 58

lr: 0.00030445076700232564

weight_decay: 0.08856475376797104

drop_path: 0.10660216439958413

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4899518489837646 seconds

Loss: 0.4172

Train Accuracy: 85.01%

Test Accuracy: 77.29%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.6012518405914307 seconds

LR changed during epoch: 1.75e-04 -> 1.71e-04

total runtime to train this model was 26.98263168334961 seconds

Hyperparameteres for model 3 at epoch 58

lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.601707935333252 seconds

Loss: 0.4143

Train Accuracy: 85.16%

Test Accuracy: 78.42%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.6000990867614746 seconds

LR changed during epoch: 1.34e-04 -> 1.33e-04

total runtime to train this model was 27.124138593673706 seconds

Hyperparameteres for model 4 at epoch 58

lr: 0.0001339074428659792

weight_decay: 0.15

drop_path: 0.12446611801404833

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9661190509796143 seconds

Loss: 0.3581

Train Accuracy: 87.17%

Test Accuracy: 78.39%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 58 Summary:

=====
Time: 157.62s (Avg member: 31.52s)

Population Mean Accuracy: 78.24%

Best Member Accuracy: 79.10%

Mean Batch Size: 256

Mean Learning Rate: 3.05e-04

Mean Weight Decay: 0.088
=====

Epoch 59/70
=====

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

built data in 1.798006296157837 seconds

LR changed during epoch: 1.19e-04 -> 1.59e-04

total runtime to train this model was 27.038989782333374 seconds

Hyperparameteres for model 0 at epoch 59

lr: 0.00019809738852320964

weight_decay: 0.02

drop_path: 0.027917752762556362

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.7911183834075928 seconds

Loss: 0.2972

Train Accuracy: 89.46%

Test Accuracy: 78.21%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.615013599395752 seconds

LR changed during epoch: 5.67e-05 -> 4.80e-05

total runtime to train this model was 26.756128072738647 seconds

Hyperparameteres for model 1 at epoch 59

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.406295061111145 seconds

Loss: 0.2995

Train Accuracy: 89.48%

Test Accuracy: 78.98%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.566124677658081 seconds

LR changed during epoch: 2.93e-04 -> 2.90e-04

total runtime to train this model was 26.55119490623474 seconds

Hyperparameteres for model 2 at epoch 59

lr: 0.00030445076700232564

weight_decay: 0.08856475376797104

drop_path: 0.10660216439958413

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.441241502761841 seconds

Loss: 0.3998

Train Accuracy: 85.90%

Test Accuracy: 77.53%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6723425388336182 seconds
LR changed during epoch: 1.71e-04 -> 1.67e-04
total runtime to train this model was 26.161942720413208 seconds
Hyperparameteres for model 3 at epoch 59
lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.1676063537597656 seconds
Loss: 0.4097
Train Accuracy: 85.34%
Test Accuracy: 78.12%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.7188870906829834 seconds
LR changed during epoch: 1.33e-04 -> 1.33e-04
total runtime to train this model was 26.60124111175537 seconds
Hyperparameteres for model 4 at epoch 59
lr: 0.0001339074428659792

weight_decay: 0.15

drop_path: 0.12446611801404833

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4426040649414062 seconds
Loss: 0.3512
Train Accuracy: 87.48%
Test Accuracy: 78.15%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 59 Summary:

=====
Time: 155.94s (Avg member: 31.19s)
Population Mean Accuracy: 78.20%
Best Member Accuracy: 78.98%
Mean Batch Size: 256
Mean Learning Rate: 3.05e-04
Mean Weight Decay: 0.088

=====
Epoch 60/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.6519889831542969 seconds
LR changed during epoch: 1.59e-04 -> 1.98e-04
total runtime to train this model was 26.364924430847168 seconds
Hyperparameteres for model 0 at epoch 60
lr: 0.00019809738852320964

weight_decay: 0.02

drop_path: 0.027917752762556362

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4210002422332764 seconds

Loss: 0.3129

Train Accuracy: 88.70%

Test Accuracy: 77.66%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.5975463390350342 seconds
LR changed during epoch: 4.80e-05 -> 4.00e-05
total runtime to train this model was 26.484450340270996 seconds
Hyperparameteres for model 1 at epoch 60
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.53482985496521 seconds

Loss: 0.2982

Train Accuracy: 89.29%

Test Accuracy: 79.07%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.5923163890838623 seconds
LR changed during epoch: 2.90e-04 -> 2.87e-04
total runtime to train this model was 26.09687352180481 seconds
Hyperparameteres for model 2 at epoch 60
lr: 0.00030445076700232564

weight_decay: 0.08856475376797104

drop_path: 0.10660216439958413

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.23709774017334 seconds

Loss: 0.3907

Train Accuracy: 85.93%

Test Accuracy: 77.71%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.6483159065246582 seconds

LR changed during epoch: 1.67e-04 -> 1.63e-04

total runtime to train this model was 26.45509362220764 seconds

Hyperparameteres for model 3 at epoch 60

lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3694777488708496 seconds

Loss: 0.3993

Train Accuracy: 85.73%

Test Accuracy: 78.19%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.5586919784545898 seconds

LR changed during epoch: 1.33e-04 -> 1.32e-04

total runtime to train this model was 26.20005774497986 seconds

Hyperparameteres for model 4 at epoch 60

lr: 0.0001339074428659792

weight_decay: 0.15

drop_path: 0.12446611801404833

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.352235794067383 seconds

Loss: 0.3453

Train Accuracy: 87.68%

Test Accuracy: 78.21%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

--- Population Update (Epoch 60) ---

=== PBT Exploit & Explore ===

Top performers: [79.07]

Bottom performers: [77.66]

Member 0: lr changed from 0.00019809738852320964 to 0.0002122202200012727

Member 0: drop_path changed from 0.027917752762556362 to 0.00642664822633773

Member 0 copied from 1

LR=2.12e-04, WD=0.020, DropPath=0.006, Warmup=5 epochs, Batch=256

=====
Epoch 60 Summary:
=====

Time: 153.80s (Avg member: 30.76s)
Population Mean Accuracy: 78.17%
Best Member Accuracy: 79.07%
Mean Batch Size: 256
Mean Learning Rate: 3.08e-04
Mean Weight Decay: 0.088

=====
Epoch 61/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.573146104812622 seconds
LR changed during epoch: 2.17e-07 -> 4.27e-05
total runtime to train this model was 26.40622115135193 seconds
Hyperparameteres for model 0 at epoch 61
lr: 0.0002122202200012727

weight_decay: 0.02

drop_path: 0.00642664822633773

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4973745346069336 seconds
Loss: 0.2385

Train Accuracy: 91.59%

Test Accuracy: 78.76%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.601088523864746 seconds
LR changed during epoch: 4.00e-05 -> 3.27e-05
total runtime to train this model was 26.27706217765808 seconds
Hyperparameteres for model 1 at epoch 61
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.8402059078216553 seconds
Loss: 0.2891

Train Accuracy: 89.77%

Test Accuracy: 79.00%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.7361347675323486 seconds
LR changed during epoch: 2.87e-04 -> 2.83e-04
total runtime to train this model was 26.18960189819336 seconds
Hyperparameteres for model 2 at epoch 61
lr: 0.00030445076700232564

weight_decay: 0.08856475376797104

drop_path: 0.10660216439958413

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.053323268890381 seconds

Loss: 0.3813

Train Accuracy: 86.42%

Test Accuracy: 77.24%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.5763859748840332 seconds

LR changed during epoch: 1.63e-04 -> 1.59e-04

total runtime to train this model was 26.80492115020752 seconds

Hyperparameteres for model 3 at epoch 61

lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4497735500335693 seconds

Loss: 0.3952

Train Accuracy: 85.71%

Test Accuracy: 78.36%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.586068868637085 seconds

LR changed during epoch: 1.32e-04 -> 1.31e-04

total runtime to train this model was 26.83101797103882 seconds

Hyperparameteres for model 4 at epoch 61

lr: 0.0001339074428659792

weight_decay: 0.15

drop_path: 0.12446611801404833

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3384623527526855 seconds

Loss: 0.3409
Train Accuracy: 87.73%
Test Accuracy: 78.09%
Google Drive already mounted.
Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 61 Summary:
=====

Time: 155.01s (Avg member: 31.00s)
Population Mean Accuracy: 78.29%
Best Member Accuracy: 79.00%
Mean Batch Size: 256
Mean Learning Rate: 3.08e-04
Mean Weight Decay: 0.088

=====
Epoch 62/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.5999181270599365 seconds
LR changed during epoch: 4.27e-05 -> 8.51e-05
total runtime to train this model was 26.71685552597046 seconds
Hyperparameteres for model 0 at epoch 62
lr: 0.0002122202200012727

weight_decay: 0.02

drop_path: 0.00642664822633773

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.2558515071868896 seconds
Loss: 0.2514

Train Accuracy: 91.12%
Test Accuracy: 78.60%
Google Drive already mounted.
Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6693270206451416 seconds
LR changed during epoch: 3.27e-05 -> 2.61e-05
total runtime to train this model was 26.800906658172607 seconds
Hyperparameteres for model 1 at epoch 62
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4196298122406006 seconds
Loss: 0.2830
Train Accuracy: 89.88%

Test Accuracy: 78.83%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.5794479846954346 seconds

LR changed during epoch: 2.83e-04 -> 2.80e-04

total runtime to train this model was 26.40927219390869 seconds

Hyperparameteres for model 2 at epoch 62

lr: 0.00030445076700232564

weight_decay: 0.08856475376797104

drop_path: 0.10660216439958413

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.442662239074707 seconds

Loss: 0.3764

Train Accuracy: 86.47%

Test Accuracy: 77.79%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.6063809394836426 seconds

LR changed during epoch: 1.59e-04 -> 1.54e-04

total runtime to train this model was 26.834352254867554 seconds

Hyperparameteres for model 3 at epoch 62

lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.441932201385498 seconds

Loss: 0.3870

Train Accuracy: 86.24%

Test Accuracy: 78.58%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.7015604972839355 seconds

LR changed during epoch: 1.31e-04 -> 1.30e-04

total runtime to train this model was 25.910083055496216 seconds

Hyperparameteres for model 4 at epoch 62

lr: 0.0001339074428659792

weight_decay: 0.15

drop_path: 0.12446611801404833

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.2900283336639404 seconds
Loss: 0.3318

Train Accuracy: 88.23%

Test Accuracy: 78.55%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 62 Summary:
=====

Time: 155.97s (Avg member: 31.19s)

Population Mean Accuracy: 78.47%

Best Member Accuracy: 78.83%

Mean Batch Size: 256

Mean Learning Rate: 3.08e-04

Mean Weight Decay: 0.088

=====
Epoch 63/70
=====

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

built data in 1.7173397541046143 seconds

LR changed during epoch: 8.51e-05 -> 1.28e-04

total runtime to train this model was 26.821258783340454 seconds

Hyperparameteres for model 0 at epoch 63

lr: 0.0002122202200012727

weight_decay: 0.02

drop_path: 0.00642664822633773

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.423851251602173 seconds
Loss: 0.2682

Train Accuracy: 90.39%

Test Accuracy: 78.18%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.5776574611663818 seconds

LR changed during epoch: 2.61e-05 -> 2.03e-05

total runtime to train this model was 26.957322120666504 seconds

Hyperparameteres for model 1 at epoch 63

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.484365224838257 seconds

Loss: 0.2790

Train Accuracy: 90.19%

Test Accuracy: 79.05%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.5949366092681885 seconds

LR changed during epoch: 2.80e-04 -> 2.75e-04

total runtime to train this model was 26.667274475097656 seconds

Hyperparameteres for model 2 at epoch 63

lr: 0.00030445076700232564

weight_decay: 0.08856475376797104

drop_path: 0.10660216439958413

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3714439868927 seconds

Loss: 0.3655

Train Accuracy: 86.87%

Test Accuracy: 77.91%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.679558277130127 seconds

LR changed during epoch: 1.54e-04 -> 1.50e-04

total runtime to train this model was 26.501839876174927 seconds

Hyperparameteres for model 3 at epoch 63

lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.606759548187256 seconds

Loss: 0.3793

Train Accuracy: 86.37%

Test Accuracy: 78.39%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.6015880107879639 seconds

LR changed during epoch: 1.30e-04 -> 1.29e-04

total runtime to train this model was 27.04836106300354 seconds

Hyperparameteres for model 4 at epoch 63

lr: 0.0001339074428659792

weight_decay: 0.15

drop_path: 0.12446611801404833

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4547934532165527 seconds

Loss: 0.3392

Train Accuracy: 87.96%

Test Accuracy: 78.44%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 63 Summary:
=====

Time: 156.71s (Avg member: 31.34s)

Population Mean Accuracy: 78.39%

Best Member Accuracy: 79.05%

Mean Batch Size: 256

Mean Learning Rate: 3.08e-04

Mean Weight Decay: 0.088

=====
Epoch 64/70
=====

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

built data in 1.5925333499908447 seconds

LR changed during epoch: 1.28e-04 -> 1.70e-04

total runtime to train this model was 26.948090076446533 seconds

Hyperparameteres for model 0 at epoch 64

lr: 0.0002122202200012727

weight_decay: 0.02

drop_path: 0.00642664822633773

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5045087337493896 seconds

Loss: 0.2857

Train Accuracy: 89.66%

Test Accuracy: 77.74%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.5871610641479492 seconds

LR changed during epoch: 2.03e-05 -> 1.52e-05

total runtime to train this model was 26.441390991210938 seconds

Hyperparameteres for model 1 at epoch 64

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.660191059112549 seconds

Loss: 0.2671

Train Accuracy: 90.58%

Test Accuracy: 79.02%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.69423508644104 seconds

LR changed during epoch: 2.75e-04 -> 2.71e-04

total runtime to train this model was 25.8570773601532 seconds

Hyperparameteres for model 2 at epoch 64

lr: 0.00030445076700232564

weight_decay: 0.08856475376797104

drop_path: 0.10660216439958413

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.289116144180298 seconds

Loss: 0.3614

Train Accuracy: 87.07%

Test Accuracy: 77.23%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.5718085765838623 seconds

LR changed during epoch: 1.50e-04 -> 1.45e-04

total runtime to train this model was 26.730449438095093 seconds

Hyperparameteres for model 3 at epoch 64

lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.382965326309204 seconds

Loss: 0.3709

Train Accuracy: 86.73%

Test Accuracy: 78.63%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.5553090572357178 seconds

LR changed during epoch: 1.29e-04 -> 1.28e-04
total runtime to train this model was 26.30106258392334 seconds
Hyperparameteres for model 4 at epoch 64
lr: 0.0001339074428659792

weight_decay: 0.15

drop_path: 0.12446611801404833

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.3658571243286133 seconds

Loss: 0.3247

Train Accuracy: 88.50%

Test Accuracy: 78.31%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 64 Summary:

=====
Time: 154.74s (Avg member: 30.95s)

Population Mean Accuracy: 78.19%

Best Member Accuracy: 79.02%

Mean Batch Size: 256

Mean Learning Rate: 3.08e-04

Mean Weight Decay: 0.088

=====
Epoch 65/70

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

built data in 1.5911431312561035 seconds

LR changed during epoch: 1.70e-04 -> 2.12e-04

total runtime to train this model was 26.426007509231567 seconds

Hyperparameteres for model 0 at epoch 65

lr: 0.0002122202200012727

weight_decay: 0.02

drop_path: 0.00642664822633773

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.435944080352783 seconds

Loss: 0.3036

Train Accuracy: 88.95%

Test Accuracy: 77.23%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.7156426906585693 seconds

LR changed during epoch: 1.52e-05 -> 1.09e-05

total runtime to train this model was 26.08159065246582 seconds

Hyperparameteres for model 1 at epoch 65
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.483247756958008 seconds

Loss: 0.2679

Train Accuracy: 90.55%

Test Accuracy: 78.87%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.6024127006530762 seconds

LR changed during epoch: 2.71e-04 -> 2.66e-04

total runtime to train this model was 26.819222927093506 seconds

Hyperparameteres for model 2 at epoch 65

lr: 0.00030445076700232564

weight_decay: 0.08856475376797104

drop_path: 0.10660216439958413

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.488945245742798 seconds

Loss: 0.3497

Train Accuracy: 87.56%

Test Accuracy: 78.29%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.5805108547210693 seconds

LR changed during epoch: 1.45e-04 -> 1.41e-04

total runtime to train this model was 26.575664281845093 seconds

Hyperparameteres for model 3 at epoch 65

lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4556424617767334 seconds

Loss: 0.3634

Train Accuracy: 87.00%

Test Accuracy: 78.27%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.582918643951416 seconds
LR changed during epoch: 1.28e-04 -> 1.26e-04
total runtime to train this model was 26.745264291763306 seconds
Hyperparameteres for model 4 at epoch 65
lr: 0.0001339074428659792

weight_decay: 0.15

drop_path: 0.12446611801404833

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.479675769805908 seconds

Loss: 0.3218

Train Accuracy: 88.63%

Test Accuracy: 78.32%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

--- Population Update (Epoch 65) ---

=== PBT Exploit & Explore ===

Top performers: [78.87]

Bottom performers: [77.23]

Member 0: lr changed from 0.0002122202200012727 to 0.00023040806442191445

Member 0: drop_path changed from 0.00642664822633773 to 0.04382642392685

Member 0 copied from 1

LR=2.30e-04, WD=0.020, DropPath=0.044, Warmup=5 epochs, Batch=256

=====
Epoch 65 Summary:

Time: 155.39s (Avg member: 31.07s)

Population Mean Accuracy: 78.20%

Best Member Accuracy: 78.87%

Mean Batch Size: 256

Mean Learning Rate: 3.12e-04

Mean Weight Decay: 0.088

=====
Epoch 66/70

--- Training Member 0 (Batch size: 256) ---
built data in 1.7549188137054443 seconds
LR changed during epoch: 2.35e-07 -> 4.63e-05
total runtime to train this model was 26.0722439289093 seconds
Hyperparameteres for model 0 at epoch 66
lr: 0.00023040806442191445

weight_decay: 0.02

drop_path: 0.04382642392685

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.571378707885742 seconds

Loss: 0.2214

Train Accuracy: 92.13%

Test Accuracy: 78.53%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.5866711139678955 seconds

LR changed during epoch: 1.09e-05 -> 7.33e-06

total runtime to train this model was 26.883965730667114 seconds

Hyperparameteres for model 1 at epoch 66

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.422438859939575 seconds

Loss: 0.2625

Train Accuracy: 90.65%

Test Accuracy: 79.27%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.569465160369873 seconds

LR changed during epoch: 2.66e-04 -> 2.61e-04

total runtime to train this model was 26.861698150634766 seconds

Hyperparameteres for model 2 at epoch 66

lr: 0.00030445076700232564

weight_decay: 0.08856475376797104

drop_path: 0.10660216439958413

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.382507085800171 seconds

Loss: 0.3382

Train Accuracy: 87.92%

Test Accuracy: 77.79%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.6105327606201172 seconds

LR changed during epoch: 1.41e-04 -> 1.36e-04

total runtime to train this model was 26.560240030288696 seconds

Hyperparameteres for model 3 at epoch 66

lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.394365072250366 seconds

Loss: 0.3522

Train Accuracy: 87.33%

Test Accuracy: 78.29%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.6766083240509033 seconds

LR changed during epoch: 1.26e-04 -> 1.25e-04

total runtime to train this model was 25.830384969711304 seconds

Hyperparameteres for model 4 at epoch 66

lr: 0.0001339074428659792

weight_decay: 0.15

drop_path: 0.12446611801404833

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.623417377471924 seconds

Loss: 0.3159

Train Accuracy: 88.72%

Test Accuracy: 78.19%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 66 Summary:

=====
Time: 156.02s (Avg member: 31.20s)

Population Mean Accuracy: 78.41%

Best Member Accuracy: 79.27%

Mean Batch Size: 256

Mean Learning Rate: 3.12e-04

Mean Weight Decay: 0.088

=====
Epoch 67/70

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

built data in 1.5967648029327393 seconds

LR changed during epoch: 4.63e-05 -> 9.24e-05

total runtime to train this model was 26.786238431930542 seconds

Hyperparameteres for model 0 at epoch 67

lr: 0.00023040806442191445

weight_decay: 0.02

drop_path: 0.04382642392685

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3986973762512207 seconds

Loss: 0.2443

Train Accuracy: 91.40%

Test Accuracy: 78.34%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.6028928756713867 seconds

LR changed during epoch: 7.33e-06 -> 4.56e-06

total runtime to train this model was 27.537956953048706 seconds

Hyperparameteres for model 1 at epoch 67

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.6631219387054443 seconds

Loss: 0.2578

Train Accuracy: 90.97%

Test Accuracy: 79.14%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.7434580326080322 seconds

LR changed during epoch: 2.61e-04 -> 2.56e-04

total runtime to train this model was 27.70120096206665 seconds

Hyperparameteres for model 2 at epoch 67

lr: 0.00030445076700232564

weight_decay: 0.08856475376797104

drop_path: 0.10660216439958413

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.1073384284973145 seconds

Loss: 0.3337

Train Accuracy: 88.05%

Test Accuracy: 78.52%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.7974867820739746 seconds
LR changed during epoch: 1.36e-04 -> 1.31e-04
total runtime to train this model was 27.355793237686157 seconds
Hyperparameteres for model 3 at epoch 67
lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.48345685005188 seconds

Loss: 0.3466

Train Accuracy: 87.57%

Test Accuracy: 78.75%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.585254430770874 seconds
LR changed during epoch: 1.25e-04 -> 1.23e-04
total runtime to train this model was 27.11019206047058 seconds
Hyperparameteres for model 4 at epoch 67
lr: 0.0001339074428659792

weight_decay: 0.15

drop_path: 0.12446611801404833

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.486912250518799 seconds

Loss: 0.3108

Train Accuracy: 88.97%

Test Accuracy: 78.55%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 67 Summary:

=====
Time: 159.22s (Avg member: 31.84s)

Population Mean Accuracy: 78.66%

Best Member Accuracy: 79.14%

Mean Batch Size: 256

Mean Learning Rate: 3.12e-04

Mean Weight Decay: 0.088

=====
Epoch 68/70

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

built data in 1.580665111541748 seconds

LR changed during epoch: 9.24e-05 -> 1.38e-04
total runtime to train this model was 27.480758905410767 seconds
Hyperparameteres for model 0 at epoch 68
lr: 0.00023040806442191445

weight_decay: 0.02

drop_path: 0.04382642392685

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5663506984710693 seconds

Loss: 0.2646

Train Accuracy: 90.51%

Test Accuracy: 78.14%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

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

built data in 1.753068447113037 seconds

LR changed during epoch: 4.56e-06 -> 2.58e-06

total runtime to train this model was 27.189306259155273 seconds

Hyperparameteres for model 1 at epoch 68

lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.514822006225586 seconds

Loss: 0.2605

Train Accuracy: 90.77%

Test Accuracy: 79.10%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

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

built data in 1.6077396869659424 seconds

LR changed during epoch: 2.56e-04 -> 2.51e-04

total runtime to train this model was 27.722606897354126 seconds

Hyperparameteres for model 2 at epoch 68

lr: 0.00030445076700232564

weight_decay: 0.08856475376797104

drop_path: 0.10660216439958413

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4699597358703613 seconds

Loss: 0.3223

Train Accuracy: 88.40%
Test Accuracy: 78.25%
Google Drive already mounted.
Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6308212280273438 seconds
LR changed during epoch: 1.31e-04 -> 1.27e-04
total runtime to train this model was 27.27440595626831 seconds
Hyperparameteres for model 3 at epoch 68
lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.539510488510132 seconds

Loss: 0.3364

Train Accuracy: 87.94%

Test Accuracy: 79.06%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.6289267539978027 seconds
LR changed during epoch: 1.23e-04 -> 1.21e-04
total runtime to train this model was 26.934467315673828 seconds
Hyperparameteres for model 4 at epoch 68
lr: 0.0001339074428659792

weight_decay: 0.15

drop_path: 0.12446611801404833

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.6508891582489014 seconds

Loss: 0.3062

Train Accuracy: 89.10%

Test Accuracy: 78.63%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 68 Summary:

=====
Time: 160.81s (Avg member: 32.16s)

Population Mean Accuracy: 78.64%

Best Member Accuracy: 79.10%

Mean Batch Size: 256

Mean Learning Rate: 3.12e-04

Mean Weight Decay: 0.088
=====

Epoch 69/70

=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.689856767654419 seconds
LR changed during epoch: 1.38e-04 -> 1.85e-04
total runtime to train this model was 27.241193771362305 seconds
Hyperparameteres for model 0 at epoch 69
lr: 0.00023040806442191445

weight_decay: 0.02

drop_path: 0.04382642392685

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.504063844680786 seconds

Loss: 0.2793

Train Accuracy: 89.86%

Test Accuracy: 77.50%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6219584941864014 seconds
LR changed during epoch: 2.58e-06 -> 1.39e-06
total runtime to train this model was 27.19583487510681 seconds
Hyperparameteres for model 1 at epoch 69
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.474104642868042 seconds

Loss: 0.2595

Train Accuracy: 90.86%

Test Accuracy: 79.27%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.5942835807800293 seconds
LR changed during epoch: 2.51e-04 -> 2.45e-04
total runtime to train this model was 26.945290565490723 seconds
Hyperparameteres for model 2 at epoch 69
lr: 0.00030445076700232564

weight_decay: 0.08856475376797104

drop_path: 0.10660216439958413

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.51672625541687 seconds

Loss: 0.3123

Train Accuracy: 88.72%

Test Accuracy: 77.93%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.7348458766937256 seconds

LR changed during epoch: 1.27e-04 -> 1.22e-04

total runtime to train this model was 26.357579469680786 seconds

Hyperparameteres for model 3 at epoch 69

lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.742898941040039 seconds

Loss: 0.3324

Train Accuracy: 88.19%

Test Accuracy: 78.94%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.6166934967041016 seconds

LR changed during epoch: 1.21e-04 -> 1.19e-04

total runtime to train this model was 27.18250870704651 seconds

Hyperparameteres for model 4 at epoch 69

lr: 0.0001339074428659792

weight_decay: 0.15

drop_path: 0.12446611801404833

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5045857429504395 seconds

Loss: 0.2999

Train Accuracy: 89.32%

Test Accuracy: 78.25%

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Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

=====
Epoch 69 Summary:

=====
Time: 158.13s (Avg member: 31.63s)

Population Mean Accuracy: 78.38%

Best Member Accuracy: 79.27%

Mean Batch Size: 256
Mean Learning Rate: 3.12e-04
Mean Weight Decay: 0.088

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.5926826000213623 seconds
LR changed during epoch: 1.85e-04 -> 2.30e-04
total runtime to train this model was 26.559308767318726 seconds
Hyperparameteres for model 0 at epoch 70
lr: 0.00023040806442191445

weight_decay: 0.02

drop_path: 0.04382642392685

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.457104206085205 seconds
Loss: 0.3049
Train Accuracy: 89.00%
Test Accuracy: 77.44%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_45921.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.5989575386047363 seconds
LR changed during epoch: 1.39e-06 -> 1.00e-06
total runtime to train this model was 26.92129921913147 seconds
Hyperparameteres for model 1 at epoch 70
lr: 0.0006822954313705238

weight_decay: 0.10656306466087465

drop_path: 0.11694757975345829

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.769176721572876 seconds
Loss: 0.2564
Train Accuracy: 91.00%
Test Accuracy: 79.19%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_45921.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.7713418006896973 seconds
LR changed during epoch: 2.45e-04 -> 2.39e-04
total runtime to train this model was 26.41531729698181 seconds
Hyperparameteres for model 2 at epoch 70
lr: 0.00030445076700232564

weight_decay: 0.08856475376797104

drop_path: 0.10660216439958413

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.238286018371582 seconds

Loss: 0.3094

Train Accuracy: 88.74%

Test Accuracy: 77.97%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_45921.pt

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

built data in 1.5744271278381348 seconds

LR changed during epoch: 1.22e-04 -> 1.17e-04

total runtime to train this model was 26.866809844970703 seconds

Hyperparameteres for model 3 at epoch 70

lr: 0.00020752310190649085

weight_decay: 0.07600507208288526

drop_path: 0.2

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4618096351623535 seconds

Loss: 0.3223

Train Accuracy: 88.50%

Test Accuracy: 78.74%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_45921.pt

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

built data in 1.5859203338623047 seconds

LR changed during epoch: 1.19e-04 -> 1.17e-04

total runtime to train this model was 27.126616716384888 seconds

Hyperparameteres for model 4 at epoch 70

lr: 0.0001339074428659792

weight_decay: 0.15

drop_path: 0.12446611801404833

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.430272102355957 seconds

Loss: 0.2964

Train Accuracy: 89.34%

Test Accuracy: 78.47%

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Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_45921.pt

--- Population Update (Epoch 70) ---

=== PBT Exploit & Explore ===

Top performers: [79.19]

Bottom performers: [77.44]

Member 0: lr changed from 0.00023040806442191445 to 0.0003133789292799797

Member 0: drop_path changed from 0.04382642392685 to 0.08301472137355428

Member 0 copied from 1

LR=3.13e-04, WD=0.020, DropPath=0.083, Warmup=5 epochs, Batch=256

=====
Epoch 70 Summary:
=====

Time: 156.63s (Avg member: 31.32s)

Population Mean Accuracy: 78.36%

Best Member Accuracy: 79.19%

Mean Batch Size: 256

Mean Learning Rate: 3.28e-04

Mean Weight Decay: 0.088

=====
PBT TRAINING COMPLETE
=====

Best member: 1

Best accuracy: 79.19%

Best hyperparameters:

Learning Rate: 6.82e-04

Weight Decay: 0.107

Drop Path Rate: 0.117

Warmup Epochs: 5

Batch Size: 256

=====
PBT TIMING REPORT
=====

Overall Statistics	Value

Total runtime	11006.86s (183.45 min)
Number of epochs	70
Number of population updates	14

Epoch Timing	Value

Average epoch time	157.23s
Std epoch time	1.98s
Min epoch time	153.36s (epoch 53)
Max epoch time	163.09s (epoch 1)

Member Training Timing	Value

Average member time per epoch	31.45s
Total training time	11006.14s
Training efficiency	100.0%

Population Update Timing	Value

Average update time	0.01s
Total update time	0.20s
Update efficiency	0.0%

Batch Size Analysis	Avg Time	Samples
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=====		
Batch size 256	31.45s	350
=====		
Per-Member Statistics	Avg Time	Total Time
=====		
Member 0	31.41s	2198.80s
Member 1	31.47s	2203.10s
Member 2	31.43s	2200.34s
Member 3	31.51s	2205.41s
Member 4	31.41s	2198.49s
=====		

Experiment completed successfully!
Results saved to: pbt_vit_timing_results.png
Detailed timing saved to: pbt_detailed_timing.png