

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

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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 1.5910522937774658 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: 6.92e-07 -> 1.36e-04

total runtime to train this model was 27.158823251724243 seconds

Hyperparameteres for model 0 at epoch 1

lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.504591941833496 seconds

Loss: 1.9922

Train Accuracy: 25.74%

Test Accuracy: 31.32%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.6911201477050781 seconds

LR changed during epoch: 8.28e-07 -> 1.63e-04

total runtime to train this model was 27.359756469726562 seconds

Hyperparameteres for model 1 at epoch 1

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5493428707122803 seconds

Loss: 1.9807

Train Accuracy: 25.71%

Test Accuracy: 31.69%

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Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.777158498764038 seconds

LR changed during epoch: 5.88e-07 -> 1.16e-04

total runtime to train this model was 27.734370708465576 seconds

Hyperparameteres for model 2 at epoch 1

lr: 0.0005761935801264503

weight_decay: 0.1354380062306811

drop_path: 0.17550809832244474

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.6425557136535645 seconds

Loss: 1.9969

Train Accuracy: 25.96%

Test Accuracy: 32.82%

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Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.677403450012207 seconds

LR changed during epoch: 5.95e-07 -> 1.17e-04

total runtime to train this model was 27.89311981201172 seconds

Hyperparameteres for model 3 at epoch 1

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.514970541000366 seconds

Loss: 1.9694

Train Accuracy: 26.82%

Test Accuracy: 30.27%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.674842119216919 seconds

LR changed during epoch: 2.86e-07 -> 5.64e-05

total runtime to train this model was 27.640283584594727 seconds

Hyperparameteres for model 4 at epoch 1

lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4851737022399902 seconds

Loss: 2.0149

Train Accuracy: 25.16%

Test Accuracy: 28.31%

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Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

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

Time: 161.11s (Avg member: 32.22s)

Population Mean Accuracy: 30.88%

Best Member Accuracy: 32.82%

Mean Batch Size: 256

Mean Learning Rate: 5.86e-04

Mean Weight Decay: 0.085

=====
Epoch 2/70
=====

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

built data in 1.6946403980255127 seconds

LR changed during epoch: 1.36e-04 -> 2.72e-04

total runtime to train this model was 27.180854320526123 seconds

Hyperparameteres for model 0 at epoch 2

lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4568028450012207 seconds

Loss: 1.7671

Train Accuracy: 34.21%

Test Accuracy: 35.38%

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Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.793872356414795 seconds

LR changed during epoch: 1.63e-04 -> 3.26e-04

total runtime to train this model was 27.07610821723938 seconds

Hyperparameteres for model 1 at epoch 2

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.445119857788086 seconds

Loss: 1.7444

Train Accuracy: 35.09%

Test Accuracy: 37.57%

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Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.6401865482330322 seconds

LR changed during epoch: 1.16e-04 -> 2.31e-04

total runtime to train this model was 27.21847438812256 seconds

Hyperparameteres for model 2 at epoch 2

lr: 0.0005761935801264503

weight_decay: 0.1354380062306811

drop_path: 0.17550809832244474

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.461672067642212 seconds

Loss: 1.7703

Train Accuracy: 33.92%

Test Accuracy: 36.79%

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Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.6758649349212646 seconds

LR changed during epoch: 1.17e-04 -> 2.34e-04

total runtime to train this model was 27.434163331985474 seconds

Hyperparameteres for model 3 at epoch 2

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5171732902526855 seconds

Loss: 1.7661

Train Accuracy: 34.37%

Test Accuracy: 35.85%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.5928454399108887 seconds

LR changed during epoch: 5.64e-05 -> 1.12e-04

total runtime to train this model was 27.345064878463745 seconds

Hyperparameteres for model 4 at epoch 2

lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.471406936645508 seconds

Loss: 1.8006

Train Accuracy: 33.32%

Test Accuracy: 34.31%

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Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 2 Summary:
=====

Time: 159.34s (Avg member: 31.87s)

Population Mean Accuracy: 35.98%

Best Member Accuracy: 37.57%

Mean Batch Size: 256

Mean Learning Rate: 5.86e-04

Mean Weight Decay: 0.085

=====
Epoch 3/70
=====

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

built data in 1.916766881942749 seconds

LR changed during epoch: 2.72e-04 -> 4.08e-04

total runtime to train this model was 27.10176396369934 seconds

Hyperparameteres for model 0 at epoch 3

lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.4273741245269775 seconds

Loss: 1.6203

Train Accuracy: 40.24%

Test Accuracy: 40.94%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.585085153579712 seconds

LR changed during epoch: 3.26e-04 -> 4.88e-04

total runtime to train this model was 27.307695388793945 seconds

Hyperparameteres for model 1 at epoch 3

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4725358486175537 seconds

Loss: 1.6094

Train Accuracy: 40.65%

Test Accuracy: 43.00%

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Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.6509552001953125 seconds

LR changed during epoch: 2.31e-04 -> 3.46e-04

total runtime to train this model was 27.117122411727905 seconds

Hyperparameteres for model 2 at epoch 3

lr: 0.0005761935801264503

weight_decay: 0.1354380062306811

drop_path: 0.17550809832244474

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5573484897613525 seconds

Loss: 1.6364

Train Accuracy: 39.61%

Test Accuracy: 42.72%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.5776934623718262 seconds

LR changed during epoch: 2.34e-04 -> 3.51e-04

total runtime to train this model was 27.44917368888855 seconds

Hyperparameteres for model 3 at epoch 3

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.179659366607666 seconds

Loss: 1.6366

Train Accuracy: 39.48%

Test Accuracy: 39.41%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.7201035022735596 seconds
LR changed during epoch: 1.12e-04 -> 1.69e-04
total runtime to train this model was 28.47455668449402 seconds
Hyperparameteres for model 4 at epoch 3
lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.648649215698242 seconds

Loss: 1.6862

Train Accuracy: 37.72%

Test Accuracy: 39.04%

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Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

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Epoch 3 Summary:
=====

Time: 161.47s (Avg member: 32.29s)

Population Mean Accuracy: 41.02%

Best Member Accuracy: 43.00%

Mean Batch Size: 256

Mean Learning Rate: 5.86e-04

Mean Weight Decay: 0.085

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Epoch 4/70
=====

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

built data in 1.6149382591247559 seconds

LR changed during epoch: 4.08e-04 -> 5.43e-04

total runtime to train this model was 27.72934079170227 seconds

Hyperparameteres for model 0 at epoch 4

lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.578336000442505 seconds

Loss: 1.5204

Train Accuracy: 44.50%

Test Accuracy: 46.20%

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Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.5973358154296875 seconds

LR changed during epoch: 4.88e-04 -> 6.50e-04

total runtime to train this model was 27.484376668930054 seconds

Hyperparameteres for model 1 at epoch 4

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9696409702301025 seconds

Loss: 1.5294

Train Accuracy: 43.87%

Test Accuracy: 45.27%

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Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.7530162334442139 seconds

LR changed during epoch: 3.46e-04 -> 4.62e-04

total runtime to train this model was 26.50372576713562 seconds

Hyperparameteres for model 2 at epoch 4

lr: 0.0005761935801264503

weight_decay: 0.1354380062306811

drop_path: 0.17550809832244474

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.837416648864746 seconds

Loss: 1.5343

Train Accuracy: 43.89%

Test Accuracy: 47.00%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.601991891860962 seconds

LR changed during epoch: 3.51e-04 -> 4.67e-04

total runtime to train this model was 27.204891204833984 seconds

Hyperparameteres for model 3 at epoch 4

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5185611248016357 seconds

Loss: 1.5218

Train Accuracy: 44.34%

Test Accuracy: 46.67%
Google Drive already mounted.
Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.5719139575958252 seconds
LR changed during epoch: 1.69e-04 -> 2.25e-04
total runtime to train this model was 27.201574563980103 seconds
Hyperparameteres for model 4 at epoch 4
lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.547083854675293 seconds

Loss: 1.5881

Train Accuracy: 41.65%

Test Accuracy: 43.20%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 4 Summary:

=====
Time: 158.94s (Avg member: 31.79s)

Population Mean Accuracy: 45.67%

Best Member Accuracy: 47.00%

Mean Batch Size: 256

Mean Learning Rate: 5.86e-04

Mean Weight Decay: 0.085

=====
Epoch 5/70

=====
--- Training Member 0 (Batch size: 256) ---
built data in 1.743992567062378 seconds
LR changed during epoch: 5.43e-04 -> 6.78e-04
total runtime to train this model was 26.621628284454346 seconds
Hyperparameteres for model 0 at epoch 5
lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.5237696170806885 seconds

Loss: 1.4640

Train Accuracy: 46.85%

Test Accuracy: 49.18%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6135778427124023 seconds
LR changed during epoch: 6.50e-04 -> 8.12e-04
total runtime to train this model was 27.527491569519043 seconds
Hyperparameteres for model 1 at epoch 5
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4318699836730957 seconds
Loss: 1.4744
Train Accuracy: 46.28%
Test Accuracy: 49.06%

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Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.5968570709228516 seconds
LR changed during epoch: 4.62e-04 -> 5.76e-04
total runtime to train this model was 27.743157625198364 seconds
Hyperparameteres for model 2 at epoch 5
lr: 0.0005761935801264503

weight_decay: 0.1354380062306811

drop_path: 0.17550809832244474

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5249459743499756 seconds
Loss: 1.4738
Train Accuracy: 46.45%
Test Accuracy: 46.90%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.5923235416412354 seconds
LR changed during epoch: 4.67e-04 -> 5.83e-04
total runtime to train this model was 26.912391901016235 seconds
Hyperparameteres for model 3 at epoch 5
lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.7818336486816406 seconds

Loss: 1.4607

Train Accuracy: 46.58%

Test Accuracy: 48.53%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.7296273708343506 seconds

LR changed during epoch: 2.25e-04 -> 2.80e-04

total runtime to train this model was 26.815542936325073 seconds

Hyperparameteres for model 4 at epoch 5

lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.1506969928741455 seconds

Loss: 1.4882

Train Accuracy: 45.52%

Test Accuracy: 47.04%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

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

=== PBT Exploit & Explore ===

Top performers: [49.18]

Bottom performers: [46.9]

Member 2: lr changed from 0.0005761935801264503 to 0.0007826127442238477

Member 2: weight_decay changed from 0.1354380062306811 to 0.11457787407074072

Member 2: drop_path changed from 0.17550809832244474 to 0.19009135885224654

Member 2 copied from 0

LR=7.83e-04, WD=0.115, DropPath=0.190, Warmup=5 epochs, Batch=256

=====
Epoch 5 Summary:

=====
Time: 159.69s (Avg member: 31.94s)

Population Mean Accuracy: 48.14%

Best Member Accuracy: 49.18%

Mean Batch Size: 256

Mean Learning Rate: 6.27e-04

Mean Weight Decay: 0.081
=====

Epoch 6/70
=====

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

built data in 1.5911509990692139 seconds

LR changed during epoch: 6.78e-04 -> 6.78e-04

total runtime to train this model was 26.74828863143921 seconds

Hyperparameteres for model 0 at epoch 6

lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.484156608581543 seconds

Loss: 1.4135

Train Accuracy: 48.47%

Test Accuracy: 51.14%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.5794715881347656 seconds

LR changed during epoch: 8.12e-04 -> 8.11e-04

total runtime to train this model was 26.972652912139893 seconds

Hyperparameteres for model 1 at epoch 6

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4321582317352295 seconds

Loss: 1.4371

Train Accuracy: 47.81%

Test Accuracy: 50.09%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.6005239486694336 seconds

LR changed during epoch: 7.99e-07 -> 1.57e-04

total runtime to train this model was 26.4976909160614 seconds

Hyperparameteres for model 2 at epoch 6

lr: 0.0007826127442238477

weight_decay: 0.11457787407074072

drop_path: 0.19009135885224654

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.276393175125122 seconds

Loss: 1.3438

Train Accuracy: 50.99%

Test Accuracy: 53.49%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6662497520446777 seconds
LR changed during epoch: 5.83e-04 -> 5.83e-04
total runtime to train this model was 26.67754864692688 seconds
Hyperparameteres for model 3 at epoch 6
lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5376009941101074 seconds
Loss: 1.3954
Train Accuracy: 49.29%
Test Accuracy: 50.25%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.5795965194702148 seconds
LR changed during epoch: 2.80e-04 -> 2.80e-04
total runtime to train this model was 27.004021406173706 seconds
Hyperparameteres for model 4 at epoch 6
lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.8957180976867676 seconds
Loss: 1.4071
Train Accuracy: 48.80%
Test Accuracy: 50.53%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 6 Summary:

=====
Time: 156.78s (Avg member: 31.36s)
Population Mean Accuracy: 51.10%
Best Member Accuracy: 53.49%
Mean Batch Size: 256
Mean Learning Rate: 6.27e-04
Mean Weight Decay: 0.081

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.6058521270751953 seconds
LR changed during epoch: 6.78e-04 -> 6.77e-04
total runtime to train this model was 26.819535970687866 seconds
Hyperparameteres for model 0 at epoch 7
lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.8792848587036133 seconds

Loss: 1.3553

Train Accuracy: 50.77%

Test Accuracy: 50.80%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.7693276405334473 seconds
LR changed during epoch: 8.11e-04 -> 8.10e-04
total runtime to train this model was 26.636987686157227 seconds
Hyperparameteres for model 1 at epoch 7
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.6796822547912598 seconds

Loss: 1.3780

Train Accuracy: 49.92%

Test Accuracy: 51.95%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6174602508544922 seconds
LR changed during epoch: 1.57e-04 -> 3.14e-04
total runtime to train this model was 26.90557336807251 seconds
Hyperparameteres for model 2 at epoch 7
lr: 0.0007826127442238477

weight_decay: 0.11457787407074072

drop_path: 0.19009135885224654

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4879610538482666 seconds

Loss: 1.3158

Train Accuracy: 52.26%

Test Accuracy: 52.93%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.579300880432129 seconds

LR changed during epoch: 5.83e-04 -> 5.82e-04

total runtime to train this model was 26.896100997924805 seconds

Hyperparameteres for model 3 at epoch 7

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.50844407081604 seconds

Loss: 1.3424

Train Accuracy: 51.11%

Test Accuracy: 52.85%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.657956838607788 seconds

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

total runtime to train this model was 27.43762731552124 seconds

Hyperparameteres for model 4 at epoch 7

lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 4.132427215576172 seconds

Loss: 1.3306

Train Accuracy: 51.89%

Test Accuracy: 52.64%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 7 Summary:

=====
Time: 159.87s (Avg member: 31.97s)

Population Mean Accuracy: 52.23%

Best Member Accuracy: 52.93%

Mean Batch Size: 256

Mean Learning Rate: 6.27e-04

Mean Weight Decay: 0.081

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.6143269538879395 seconds
LR changed during epoch: 6.77e-04 -> 6.75e-04
total runtime to train this model was 27.57538914680481 seconds
Hyperparameteres for model 0 at epoch 8
lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.910950183868408 seconds

Loss: 1.3176

Train Accuracy: 52.16%

Test Accuracy: 53.53%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.627969741821289 seconds
LR changed during epoch: 8.10e-04 -> 8.07e-04
total runtime to train this model was 27.447394132614136 seconds
Hyperparameteres for model 1 at epoch 8
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9295902252197266 seconds

Loss: 1.3312

Train Accuracy: 51.55%

Test Accuracy: 52.76%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.7173008918762207 seconds
LR changed during epoch: 3.14e-04 -> 4.70e-04
total runtime to train this model was 27.393036603927612 seconds
Hyperparameteres for model 2 at epoch 8
lr: 0.0007826127442238477

weight_decay: 0.11457787407074072

drop_path: 0.19009135885224654

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.6729493141174316 seconds

Loss: 1.3179

Train Accuracy: 52.48%

Test Accuracy: 52.31%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.5748400688171387 seconds

LR changed during epoch: 5.82e-04 -> 5.80e-04

total runtime to train this model was 27.104650735855103 seconds

Hyperparameteres for model 3 at epoch 8

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4823238849639893 seconds

Loss: 1.2997

Train Accuracy: 53.12%

Test Accuracy: 53.71%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.5791566371917725 seconds

LR changed during epoch: 2.80e-04 -> 2.79e-04

total runtime to train this model was 27.31316089630127 seconds

Hyperparameteres for model 4 at epoch 8

lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.440316677093506 seconds

Loss: 1.2851

Train Accuracy: 53.37%

Test Accuracy: 54.61%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 8 Summary:

=====
Time: 160.59s (Avg member: 32.12s)

Population Mean Accuracy: 53.38%
Best Member Accuracy: 54.61%
Mean Batch Size: 256
Mean Learning Rate: 6.27e-04
Mean Weight Decay: 0.081

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.5869107246398926 seconds
LR changed during epoch: 6.75e-04 -> 6.72e-04
total runtime to train this model was 27.072916269302368 seconds
Hyperparameteres for model 0 at epoch 9
lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.9972188472747803 seconds
Loss: 1.2773

Train Accuracy: 53.86%

Test Accuracy: 54.45%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.7540583610534668 seconds
LR changed during epoch: 8.07e-04 -> 8.04e-04
total runtime to train this model was 27.197070121765137 seconds
Hyperparameteres for model 1 at epoch 9
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5936319828033447 seconds
Loss: 1.2837

Train Accuracy: 53.52%

Test Accuracy: 55.52%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.5848991870880127 seconds
LR changed during epoch: 4.70e-04 -> 6.27e-04
total runtime to train this model was 27.4695041179657 seconds
Hyperparameteres for model 2 at epoch 9
lr: 0.0007826127442238477

weight_decay: 0.11457787407074072

drop_path: 0.19009135885224654

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.475151538848877 seconds

Loss: 1.3184

Train Accuracy: 52.23%

Test Accuracy: 54.16%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.5812609195709229 seconds

LR changed during epoch: 5.80e-04 -> 5.78e-04

total runtime to train this model was 27.314087867736816 seconds

Hyperparameteres for model 3 at epoch 9

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4140803813934326 seconds

Loss: 1.2711

Train Accuracy: 54.12%

Test Accuracy: 56.11%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.7104227542877197 seconds

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

total runtime to train this model was 27.169589042663574 seconds

Hyperparameteres for model 4 at epoch 9

lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.497011661529541 seconds

Loss: 1.2380

Train Accuracy: 55.46%

Test Accuracy: 56.33%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

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

Time: 159.65s (Avg member: 31.93s)
Population Mean Accuracy: 55.31%
Best Member Accuracy: 56.33%
Mean Batch Size: 256
Mean Learning Rate: 6.27e-04
Mean Weight Decay: 0.081

=====

Epoch 10/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.6083955764770508 seconds
LR changed during epoch: 6.72e-04 -> 6.68e-04
total runtime to train this model was 27.454846620559692 seconds
Hyperparameteres for model 0 at epoch 10
lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4779672622680664 seconds

Loss: 1.2452
Train Accuracy: 54.90%
Test Accuracy: 56.22%
Google Drive already mounted.
Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6651055812835693 seconds
LR changed during epoch: 8.04e-04 -> 8.00e-04
total runtime to train this model was 27.365382194519043 seconds
Hyperparameteres for model 1 at epoch 10
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.48547101020813 seconds

Loss: 1.2445
Train Accuracy: 55.20%
Test Accuracy: 56.97%
Google Drive already mounted.
Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.6887874603271484 seconds
LR changed during epoch: 6.27e-04 -> 7.83e-04
total runtime to train this model was 26.900542974472046 seconds
Hyperparameteres for model 2 at epoch 10
lr: 0.0007826127442238477

weight_decay: 0.11457787407074072

drop_path: 0.19009135885224654

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.5181970596313477 seconds

Loss: 1.3197

Train Accuracy: 52.28%

Test Accuracy: 51.47%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.6611220836639404 seconds

LR changed during epoch: 5.78e-04 -> 5.75e-04

total runtime to train this model was 27.652992725372314 seconds

Hyperparameteres for model 3 at epoch 10

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.543776512145996 seconds

Loss: 1.2232

Train Accuracy: 55.87%

Test Accuracy: 56.06%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.7341187000274658 seconds

LR changed during epoch: 2.78e-04 -> 2.76e-04

total runtime to train this model was 27.802131414413452 seconds

Hyperparameteres for model 4 at epoch 10

lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.509159564971924 seconds

Loss: 1.2000
Train Accuracy: 56.74%
Test Accuracy: 57.64%
Google Drive already mounted.
Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

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

=== PBT Exploit & Explore ===
Top performers: [57.64]
Bottom performers: [51.47]
Member 2: lr changed from 0.0007826127442238477 to 0.0009088741866817679
Member 2: weight_decay changed from 0.11457787407074072 to 0.10845313260928631
Member 2: drop_path changed from 0.19009135885224654 to 0.19308666360295473
Member 2 copied from 4
LR=9.09e-04, WD=0.108, DropPath=0.193, Warmup=5 epochs, Batch=256

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

Time: 160.33s (Avg member: 32.06s)
Population Mean Accuracy: 55.67%
Best Member Accuracy: 57.64%
Mean Batch Size: 256
Mean Learning Rate: 6.53e-04
Mean Weight Decay: 0.080

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.6014823913574219 seconds
LR changed during epoch: 6.68e-04 -> 6.64e-04
total runtime to train this model was 27.055909395217896 seconds
Hyperparameteres for model 0 at epoch 11
lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.86065411567688 seconds

Loss: 1.2080

Train Accuracy: 56.46%

Test Accuracy: 56.61%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.765146255493164 seconds
LR changed during epoch: 8.00e-04 -> 7.95e-04
total runtime to train this model was 26.748092889785767 seconds
Hyperparameteres for model 1 at epoch 11
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9003641605377197 seconds

Loss: 1.1964

Train Accuracy: 57.06%

Test Accuracy: 59.00%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.5992710590362549 seconds

LR changed during epoch: 9.27e-07 -> 1.83e-04

total runtime to train this model was 26.927343130111694 seconds

Hyperparameteres for model 2 at epoch 11

lr: 0.0009088741866817679

weight_decay: 0.10845313260928631

drop_path: 0.19308666360295473

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.437384843826294 seconds

Loss: 1.1342

Train Accuracy: 59.30%

Test Accuracy: 58.17%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.6219513416290283 seconds

LR changed during epoch: 5.75e-04 -> 5.71e-04

total runtime to train this model was 27.423109531402588 seconds

Hyperparameteres for model 3 at epoch 11

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5439233779907227 seconds

Loss: 1.1946

Train Accuracy: 56.97%

Test Accuracy: 57.27%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.6747441291809082 seconds
LR changed during epoch: 2.76e-04 -> 2.75e-04
total runtime to train this model was 27.259328603744507 seconds
Hyperparameteres for model 4 at epoch 11
lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.8629250526428223 seconds

Loss: 1.1581

Train Accuracy: 58.47%

Test Accuracy: 56.19%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

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

Time: 159.59s (Avg member: 31.92s)

Population Mean Accuracy: 57.45%

Best Member Accuracy: 59.00%

Mean Batch Size: 256

Mean Learning Rate: 6.53e-04

Mean Weight Decay: 0.080

=====
Epoch 12/70
=====

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

built data in 1.6058509349822998 seconds

LR changed during epoch: 6.64e-04 -> 6.59e-04

total runtime to train this model was 27.80219268798828 seconds

Hyperparameteres for model 0 at epoch 12

lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5385427474975586 seconds

Loss: 1.1726

Train Accuracy: 57.92%

Test Accuracy: 59.64%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.6489191055297852 seconds

LR changed during epoch: 7.95e-04 -> 7.89e-04

total runtime to train this model was 27.30382490158081 seconds

Hyperparameteres for model 1 at epoch 12

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.523550510406494 seconds

Loss: 1.1481

Train Accuracy: 59.04%

Test Accuracy: 61.40%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.5917103290557861 seconds

LR changed during epoch: 1.83e-04 -> 3.64e-04

total runtime to train this model was 27.083640813827515 seconds

Hyperparameteres for model 2 at epoch 12

lr: 0.0009088741866817679

weight_decay: 0.10845313260928631

drop_path: 0.19308666360295473

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.0894405841827393 seconds

Loss: 1.1763

Train Accuracy: 57.65%

Test Accuracy: 57.72%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.8345260620117188 seconds

LR changed during epoch: 5.71e-04 -> 5.67e-04

total runtime to train this model was 27.394789218902588 seconds

Hyperparameteres for model 3 at epoch 12

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.604426860809326 seconds

Loss: 1.1595

Train Accuracy: 58.15%

Test Accuracy: 59.55%
Google Drive already mounted.
Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.6329529285430908 seconds
LR changed during epoch: 2.75e-04 -> 2.72e-04
total runtime to train this model was 27.398761987686157 seconds
Hyperparameteres for model 4 at epoch 12
lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5255703926086426 seconds

Loss: 1.1184
Train Accuracy: 59.73%
Test Accuracy: 59.53%
Google Drive already mounted.
Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

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

Time: 159.83s (Avg member: 31.97s)
Population Mean Accuracy: 59.57%
Best Member Accuracy: 61.40%
Mean Batch Size: 256
Mean Learning Rate: 6.53e-04
Mean Weight Decay: 0.080

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.6313464641571045 seconds
LR changed during epoch: 6.59e-04 -> 6.53e-04
total runtime to train this model was 27.20889949798584 seconds
Hyperparameteres for model 0 at epoch 13
lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.444084882736206 seconds

Loss: 1.1364
Train Accuracy: 59.48%
Test Accuracy: 60.02%
Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.7424540519714355 seconds
LR changed during epoch: 7.89e-04 -> 7.82e-04
total runtime to train this model was 27.00206232070923 seconds
Hyperparameteres for model 1 at epoch 13
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.459904432296753 seconds

Loss: 1.1088

Train Accuracy: 60.06%

Test Accuracy: 59.76%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6400206089019775 seconds
LR changed during epoch: 3.64e-04 -> 5.46e-04
total runtime to train this model was 27.296759366989136 seconds
Hyperparameteres for model 2 at epoch 13
lr: 0.0009088741866817679

weight_decay: 0.10845313260928631

drop_path: 0.19308666360295473

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.628488540649414 seconds

Loss: 1.2168

Train Accuracy: 56.16%

Test Accuracy: 57.58%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6631393432617188 seconds
LR changed during epoch: 5.67e-04 -> 5.62e-04
total runtime to train this model was 27.507279872894287 seconds
Hyperparameteres for model 3 at epoch 13
lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.548936367034912 seconds

Loss: 1.1148

Train Accuracy: 59.97%

Test Accuracy: 60.46%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.8418233394622803 seconds

LR changed during epoch: 2.72e-04 -> 2.70e-04

total runtime to train this model was 27.043627500534058 seconds

Hyperparameteres for model 4 at epoch 13

lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.536951780319214 seconds

Loss: 1.0838

Train Accuracy: 61.12%

Test Accuracy: 61.23%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 13 Summary:

=====
Time: 160.35s (Avg member: 32.07s)

Population Mean Accuracy: 59.81%

Best Member Accuracy: 61.23%

Mean Batch Size: 256

Mean Learning Rate: 6.53e-04

Mean Weight Decay: 0.080

=====
Epoch 14/70

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

built data in 1.6063125133514404 seconds

LR changed during epoch: 6.53e-04 -> 6.47e-04

total runtime to train this model was 27.345046043395996 seconds

Hyperparameteres for model 0 at epoch 14

lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4878885746002197 seconds

Loss: 1.1097

Train Accuracy: 60.02%

Test Accuracy: 60.95%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.6328787803649902 seconds

LR changed during epoch: $7.82e-04 \rightarrow 7.74e-04$

total runtime to train this model was 26.973158836364746 seconds

Hyperparameteres for model 1 at epoch 14

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4710724353790283 seconds

Loss: 1.0744

Train Accuracy: 61.52%

Test Accuracy: 63.59%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.6054418087005615 seconds

LR changed during epoch: $5.46e-04 \rightarrow 7.28e-04$

total runtime to train this model was 27.254876852035522 seconds

Hyperparameteres for model 2 at epoch 14

lr: 0.0009088741866817679

weight_decay: 0.10845313260928631

drop_path: 0.19308666360295473

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.479506731033325 seconds

Loss: 1.2214

Train Accuracy: 56.24%

Test Accuracy: 52.95%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.664419174194336 seconds

LR changed during epoch: $5.62e-04 \rightarrow 5.56e-04$

total runtime to train this model was 27.390233993530273 seconds

Hyperparameteres for model 3 at epoch 14

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5658817291259766 seconds

Loss: 1.0843

Train Accuracy: 61.09%

Test Accuracy: 61.13%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.5920445919036865 seconds

LR changed during epoch: 2.70e-04 -> 2.67e-04

total runtime to train this model was 27.092431783676147 seconds

Hyperparameteres for model 4 at epoch 14

lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.470339775085449 seconds

Loss: 1.0559

Train Accuracy: 62.20%

Test Accuracy: 61.43%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 14 Summary:

=====
Time: 158.90s (Avg member: 31.78s)

Population Mean Accuracy: 60.01%

Best Member Accuracy: 63.59%

Mean Batch Size: 256

Mean Learning Rate: 6.53e-04

Mean Weight Decay: 0.080

=====
Epoch 15/70

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

built data in 1.617793321609497 seconds

LR changed during epoch: 6.47e-04 -> 6.39e-04

total runtime to train this model was 27.053136348724365 seconds

Hyperparameteres for model 0 at epoch 15

lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.6537768840789795 seconds

Loss: 1.0779

Train Accuracy: 61.32%

Test Accuracy: 62.07%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.751645803451538 seconds

LR changed during epoch: 7.74e-04 -> 7.65e-04

total runtime to train this model was 27.11827325820923 seconds

Hyperparameteres for model 1 at epoch 15

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.153172016143799 seconds

Loss: 1.0389

Train Accuracy: 62.96%

Test Accuracy: 63.00%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.5999393463134766 seconds

LR changed during epoch: 7.28e-04 -> 9.09e-04

total runtime to train this model was 27.73898434638977 seconds

Hyperparameteres for model 2 at epoch 15

lr: 0.0009088741866817679

weight_decay: 0.10845313260928631

drop_path: 0.19308666360295473

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5575876235961914 seconds

Loss: 1.2265

Train Accuracy: 56.06%

Test Accuracy: 55.92%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.6121742725372314 seconds

LR changed during epoch: 5.56e-04 -> 5.50e-04

total runtime to train this model was 27.687371253967285 seconds

Hyperparameteres for model 3 at epoch 15
lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.641993999481201 seconds

Loss: 1.0559

Train Accuracy: 62.27%

Test Accuracy: 63.00%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.8043360710144043 seconds

LR changed during epoch: 2.67e-04 -> 2.64e-04

total runtime to train this model was 28.388143301010132 seconds

Hyperparameteres for model 4 at epoch 15

lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5391147136688232 seconds

Loss: 1.0245

Train Accuracy: 63.27%

Test Accuracy: 63.30%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

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

=== PBT Exploit & Explore ===

Top performers: [63.3]

Bottom performers: [55.92]

Member 2: lr changed from 0.0009088741866817679 to 0.0010000000000000002

Member 2: weight_decay changed from 0.10845313260928631 to 0.11054682221947956

Member 2: drop_path changed from 0.19308666360295473 to 0.19751349792131337

Member 2 copied from 4

LR=1.00e-03, WD=0.111, DropPath=0.198, Warmup=5 epochs, Batch=256

=====
Epoch 15 Summary:

=====
Time: 161.25s (Avg member: 32.25s)

Population Mean Accuracy: 61.46%

Best Member Accuracy: 63.30%

Mean Batch Size: 256

Mean Learning Rate: 6.71e-04

Mean Weight Decay: 0.080

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.7744531631469727 seconds
LR changed during epoch: 6.39e-04 -> 6.31e-04
total runtime to train this model was 29.294052839279175 seconds
Hyperparameteres for model 0 at epoch 16
lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.576540946960449 seconds

Loss: 1.0486

Train Accuracy: 62.67%

Test Accuracy: 64.04%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6154825687408447 seconds
LR changed during epoch: 7.65e-04 -> 7.56e-04
total runtime to train this model was 27.375821352005005 seconds
Hyperparameteres for model 1 at epoch 16
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.4540345668792725 seconds

Loss: 1.0016

Train Accuracy: 64.42%

Test Accuracy: 64.20%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.7059359550476074 seconds
LR changed during epoch: 1.02e-06 -> 2.01e-04
total runtime to train this model was 27.373112678527832 seconds
Hyperparameteres for model 2 at epoch 16
lr: 0.00100000000000000002

weight_decay: 0.11054682221947956

drop_path: 0.19751349792131337

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5722434520721436 seconds

Loss: 0.9831

Train Accuracy: 64.97%

Test Accuracy: 64.36%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.6197054386138916 seconds

LR changed during epoch: 5.50e-04 -> 5.43e-04

total runtime to train this model was 27.397501707077026 seconds

Hyperparameteres for model 3 at epoch 16

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4463016986846924 seconds

Loss: 1.0150

Train Accuracy: 63.73%

Test Accuracy: 63.71%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.5791864395141602 seconds

LR changed during epoch: 2.64e-04 -> 2.61e-04

total runtime to train this model was 27.436459064483643 seconds

Hyperparameteres for model 4 at epoch 16

lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.6983115673065186 seconds

Loss: 0.9940

Train Accuracy: 64.62%

Test Accuracy: 63.85%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 16 Summary:

=====
Time: 162.18s (Avg member: 32.44s)

Population Mean Accuracy: 64.03%
Best Member Accuracy: 64.36%
Mean Batch Size: 256
Mean Learning Rate: 6.71e-04
Mean Weight Decay: 0.080

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.7939224243164062 seconds
LR changed during epoch: 6.31e-04 -> 6.23e-04
total runtime to train this model was 27.43129253387451 seconds
Hyperparameteres for model 0 at epoch 17
lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.8716135025024414 seconds
Loss: 1.0172

Train Accuracy: 63.86%

Test Accuracy: 63.81%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.5726299285888672 seconds
LR changed during epoch: 7.56e-04 -> 7.45e-04
total runtime to train this model was 27.44245672225952 seconds
Hyperparameteres for model 1 at epoch 17
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5160555839538574 seconds
Loss: 0.9799

Train Accuracy: 65.06%

Test Accuracy: 65.91%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6553959846496582 seconds
LR changed during epoch: 2.01e-04 -> 4.01e-04
total runtime to train this model was 27.013071537017822 seconds
Hyperparameteres for model 2 at epoch 17
lr: 0.0010000000000000002

weight_decay: 0.11054682221947956

drop_path: 0.19751349792131337

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4206583499908447 seconds

Loss: 1.0394

Train Accuracy: 62.86%

Test Accuracy: 62.04%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.6294264793395996 seconds

LR changed during epoch: 5.43e-04 -> 5.36e-04

total runtime to train this model was 26.940176963806152 seconds

Hyperparameteres for model 3 at epoch 17

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.6698176860809326 seconds

Loss: 0.9941

Train Accuracy: 64.58%

Test Accuracy: 63.98%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.6133496761322021 seconds

LR changed during epoch: 2.61e-04 -> 2.58e-04

total runtime to train this model was 27.163777828216553 seconds

Hyperparameteres for model 4 at epoch 17

lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.557424306869507 seconds

Loss: 0.9684

Train Accuracy: 65.46%

Test Accuracy: 64.58%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

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

Time: 159.52s (Avg member: 31.90s)
Population Mean Accuracy: 64.06%
Best Member Accuracy: 65.91%
Mean Batch Size: 256
Mean Learning Rate: 6.71e-04
Mean Weight Decay: 0.080

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.635019302368164 seconds
LR changed during epoch: 6.23e-04 -> 6.14e-04
total runtime to train this model was 27.048292636871338 seconds
Hyperparameteres for model 0 at epoch 18
lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4451849460601807 seconds
Loss: 0.9939

Train Accuracy: 64.60%

Test Accuracy: 63.40%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6225502490997314 seconds
LR changed during epoch: 7.45e-04 -> 7.34e-04
total runtime to train this model was 26.593186140060425 seconds
Hyperparameteres for model 1 at epoch 18
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.481856107711792 seconds
Loss: 0.9447

Train Accuracy: 66.52%

Test Accuracy: 66.51%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.6916565895080566 seconds
LR changed during epoch: 4.01e-04 -> 6.01e-04
total runtime to train this model was 26.96253776550293 seconds
Hyperparameteres for model 2 at epoch 18
lr: 0.0010000000000000002

weight_decay: 0.11054682221947956

drop_path: 0.19751349792131337

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.317537307739258 seconds

Loss: 1.0991

Train Accuracy: 60.87%

Test Accuracy: 62.20%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.577376127243042 seconds

LR changed during epoch: 5.36e-04 -> 5.28e-04

total runtime to train this model was 26.74933362007141 seconds

Hyperparameteres for model 3 at epoch 18

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4205996990203857 seconds

Loss: 0.9642

Train Accuracy: 65.55%

Test Accuracy: 63.98%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.5640869140625 seconds

LR changed during epoch: 2.58e-04 -> 2.54e-04

total runtime to train this model was 26.39477825164795 seconds

Hyperparameteres for model 4 at epoch 18

lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4065380096435547 seconds

Loss: 0.9398
Train Accuracy: 66.50%
Test Accuracy: 65.23%
Google Drive already mounted.
Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

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

Time: 156.13s (Avg member: 31.23s)
Population Mean Accuracy: 64.26%
Best Member Accuracy: 66.51%
Mean Batch Size: 256
Mean Learning Rate: 6.71e-04
Mean Weight Decay: 0.080

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.5874385833740234 seconds
LR changed during epoch: 6.14e-04 -> 6.04e-04
total runtime to train this model was 26.05447483062744 seconds
Hyperparameteres for model 0 at epoch 19
lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.475278377532959 seconds

Loss: 0.9651

Train Accuracy: 65.71%

Test Accuracy: 65.02%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.7752759456634521 seconds
LR changed during epoch: 7.34e-04 -> 7.22e-04
total runtime to train this model was 25.450001001358032 seconds
Hyperparameteres for model 1 at epoch 19
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.397829294204712 seconds

Loss: 0.9281

Train Accuracy: 67.08%

Test Accuracy: 67.39%
Google Drive already mounted.
Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.580543041229248 seconds
LR changed during epoch: 6.01e-04 -> 8.01e-04
total runtime to train this model was 26.588886737823486 seconds
Hyperparameteres for model 2 at epoch 19
lr: 0.0010000000000000002

weight_decay: 0.11054682221947956

drop_path: 0.19751349792131337

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.387819766998291 seconds
Loss: 1.1380
Train Accuracy: 59.23%
Test Accuracy: 60.31%
Google Drive already mounted.
Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.5664482116699219 seconds
LR changed during epoch: 5.28e-04 -> 5.19e-04
total runtime to train this model was 26.41088080406189 seconds
Hyperparameteres for model 3 at epoch 19
lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4359960556030273 seconds
Loss: 0.9392
Train Accuracy: 66.60%
Test Accuracy: 65.79%
Google Drive already mounted.
Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.5718629360198975 seconds
LR changed during epoch: 2.54e-04 -> 2.50e-04
total runtime to train this model was 26.282346725463867 seconds
Hyperparameteres for model 4 at epoch 19
lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.3426647186279297 seconds
Loss: 0.9208

Train Accuracy: 67.26%

Test Accuracy: 66.70%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

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

Time: 153.12s (Avg member: 30.62s)

Population Mean Accuracy: 65.04%

Best Member Accuracy: 67.39%

Mean Batch Size: 256

Mean Learning Rate: 6.71e-04

Mean Weight Decay: 0.080

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

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

built data in 1.754465103149414 seconds

LR changed during epoch: 6.04e-04 -> 5.93e-04

total runtime to train this model was 27.72263264656067 seconds

Hyperparameteres for model 0 at epoch 20

lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 4.06408166885376 seconds
Loss: 0.9422

Train Accuracy: 66.32%

Test Accuracy: 66.98%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.6422464847564697 seconds

LR changed during epoch: 7.22e-04 -> 7.10e-04

total runtime to train this model was 28.215086936950684 seconds

Hyperparameteres for model 1 at epoch 20

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4888362884521484 seconds

Loss: 0.9072

Train Accuracy: 67.64%

Test Accuracy: 68.43%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.6756975650787354 seconds

LR changed during epoch: 8.01e-04 -> 1.00e-03

total runtime to train this model was 27.687363862991333 seconds

Hyperparameteres for model 2 at epoch 20

lr: 0.0010000000000000002

weight_decay: 0.11054682221947956

drop_path: 0.19751349792131337

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5418753623962402 seconds

Loss: 1.1391

Train Accuracy: 59.13%

Test Accuracy: 59.40%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.7238810062408447 seconds

LR changed during epoch: 5.19e-04 -> 5.10e-04

total runtime to train this model was 27.23684310913086 seconds

Hyperparameteres for model 3 at epoch 20

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.870150566101074 seconds

Loss: 0.9130

Train Accuracy: 67.32%

Test Accuracy: 66.23%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.626664400100708 seconds

LR changed during epoch: 2.50e-04 -> 2.45e-04

total runtime to train this model was 27.476279497146606 seconds

Hyperparameteres for model 4 at epoch 20

lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4943132400512695 seconds

Loss: 0.9097

Train Accuracy: 67.59%

Test Accuracy: 67.23%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

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

=== PBT Exploit & Explore ===

Top performers: [68.43]

Bottom performers: [59.4]

Member 2: lr changed from 0.0010000000000000002 to 0.0007311898711548193

Member 2: weight_decay changed from 0.11054682221947956 to 0.09030465508719347

Member 2: drop_path changed from 0.19751349792131337 to 0.16628173084551218

Member 2 copied from 1

LR=7.31e-04, WD=0.090, DropPath=0.166, Warmup=5 epochs, Batch=256

=====
Epoch 20 Summary:

Time: 163.44s (Avg member: 32.69s)

Population Mean Accuracy: 65.65%

Best Member Accuracy: 68.43%

Mean Batch Size: 256

Mean Learning Rate: 6.17e-04

Mean Weight Decay: 0.076

=====
Epoch 21/70

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

built data in 1.6314492225646973 seconds

LR changed during epoch: 5.93e-04 -> 5.82e-04

total runtime to train this model was 27.126174449920654 seconds

Hyperparameteres for model 0 at epoch 21

lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.6067183017730713 seconds

Loss: 0.9273

Train Accuracy: 67.19%

Test Accuracy: 67.27%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6601250171661377 seconds
LR changed during epoch: 7.10e-04 -> 6.96e-04
total runtime to train this model was 27.08518624305725 seconds
Hyperparameteres for model 1 at epoch 21
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.499345302581787 seconds

Loss: 0.8781

Train Accuracy: 68.94%

Test Accuracy: 68.50%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6691362857818604 seconds
LR changed during epoch: 7.46e-07 -> 1.47e-04
total runtime to train this model was 27.578226566314697 seconds
Hyperparameteres for model 2 at epoch 21
lr: 0.0007311898711548193

weight_decay: 0.09030465508719347

drop_path: 0.16628173084551218

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5949742794036865 seconds

Loss: 0.8036

Train Accuracy: 71.57%

Test Accuracy: 70.74%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.606435775756836 seconds
LR changed during epoch: 5.10e-04 -> 5.00e-04
total runtime to train this model was 27.856829166412354 seconds
Hyperparameteres for model 3 at epoch 21
lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5476038455963135 seconds

Loss: 0.8903

Train Accuracy: 68.24%

Test Accuracy: 68.46%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.611407995223999 seconds

LR changed during epoch: 2.45e-04 -> 2.41e-04

total runtime to train this model was 27.395085096359253 seconds

Hyperparameteres for model 4 at epoch 21

lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.8099582195281982 seconds

Loss: 0.8816

Train Accuracy: 68.71%

Test Accuracy: 67.26%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 21 Summary:

=====
Time: 160.61s (Avg member: 32.12s)

Population Mean Accuracy: 68.45%

Best Member Accuracy: 70.74%

Mean Batch Size: 256

Mean Learning Rate: 6.17e-04

Mean Weight Decay: 0.076

=====
Epoch 22/70

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

built data in 1.7599270343780518 seconds

LR changed during epoch: 5.82e-04 -> 5.70e-04

total runtime to train this model was 27.264912605285645 seconds

Hyperparameteres for model 0 at epoch 22

lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.8304271697998047 seconds

Loss: 0.9073

Train Accuracy: 67.56%

Test Accuracy: 67.85%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.5832037925720215 seconds

LR changed during epoch: 6.96e-04 -> 6.82e-04

total runtime to train this model was 27.897130489349365 seconds

Hyperparameteres for model 1 at epoch 22

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.516953945159912 seconds

Loss: 0.8492

Train Accuracy: 69.75%

Test Accuracy: 68.04%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.6069645881652832 seconds

LR changed during epoch: 1.47e-04 -> 2.93e-04

total runtime to train this model was 28.738401412963867 seconds

Hyperparameteres for model 2 at epoch 22

lr: 0.0007311898711548193

weight_decay: 0.09030465508719347

drop_path: 0.16628173084551218

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9909987449645996 seconds

Loss: 0.7811

Train Accuracy: 72.28%

Test Accuracy: 71.25%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.7504427433013916 seconds

LR changed during epoch: 5.00e-04 -> 4.90e-04

total runtime to train this model was 28.450392723083496 seconds

Hyperparameteres for model 3 at epoch 22

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4973690509796143 seconds

Loss: 0.8649

Train Accuracy: 69.25%

Test Accuracy: 68.83%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.674767017364502 seconds

LR changed during epoch: 2.41e-04 -> 2.36e-04

total runtime to train this model was 27.82166838645935 seconds

Hyperparameteres for model 4 at epoch 22

lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.528963565826416 seconds

Loss: 0.8561

Train Accuracy: 69.43%

Test Accuracy: 68.22%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 22 Summary:

=====
Time: 163.20s (Avg member: 32.64s)

Population Mean Accuracy: 68.84%

Best Member Accuracy: 71.25%

Mean Batch Size: 256

Mean Learning Rate: 6.17e-04

Mean Weight Decay: 0.076
=====

Epoch 23/70
=====

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

built data in 1.6286804676055908 seconds

LR changed during epoch: 5.70e-04 -> 5.58e-04

total runtime to train this model was 27.63360071182251 seconds

Hyperparameteres for model 0 at epoch 23

lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.121997356414795 seconds

Loss: 0.8826

Train Accuracy: 69.00%

Test Accuracy: 68.46%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.8391575813293457 seconds

LR changed during epoch: 6.82e-04 -> 6.68e-04

total runtime to train this model was 27.837608575820923 seconds

Hyperparameteres for model 1 at epoch 23

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.516319513320923 seconds

Loss: 0.8392

Train Accuracy: 70.18%

Test Accuracy: 70.50%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.6640498638153076 seconds

LR changed during epoch: 2.93e-04 -> 4.39e-04

total runtime to train this model was 27.876657485961914 seconds

Hyperparameteres for model 2 at epoch 23

lr: 0.0007311898711548193

weight_decay: 0.09030465508719347

drop_path: 0.16628173084551218

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5367040634155273 seconds

Loss: 0.7902

Train Accuracy: 72.17%

Test Accuracy: 70.37%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.6430578231811523 seconds

LR changed during epoch: 4.90e-04 -> 4.80e-04

total runtime to train this model was 27.59720253944397 seconds

Hyperparameteres for model 3 at epoch 23
lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.9011666774749756 seconds
Loss: 0.8476

Train Accuracy: 70.19%

Test Accuracy: 68.38%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.8281033039093018 seconds

LR changed during epoch: 2.36e-04 -> 2.31e-04

total runtime to train this model was 27.830713272094727 seconds

Hyperparameteres for model 4 at epoch 23

lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.644099712371826 seconds
Loss: 0.8294

Train Accuracy: 70.31%

Test Accuracy: 68.39%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 23 Summary:

=====
Time: 162.43s (Avg member: 32.49s)

Population Mean Accuracy: 69.22%

Best Member Accuracy: 70.50%

Mean Batch Size: 256

Mean Learning Rate: 6.17e-04

Mean Weight Decay: 0.076
=====

Epoch 24/70
=====

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

built data in 1.6492259502410889 seconds

LR changed during epoch: 5.58e-04 -> 5.45e-04

total runtime to train this model was 27.675156831741333 seconds

Hyperparameteres for model 0 at epoch 24

lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.547028064727783 seconds

Loss: 0.8612

Train Accuracy: 69.50%

Test Accuracy: 68.93%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.6404476165771484 seconds

LR changed during epoch: 6.68e-04 -> 6.52e-04

total runtime to train this model was 27.42810559272766 seconds

Hyperparameteres for model 1 at epoch 24

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9335365295410156 seconds

Loss: 0.8223

Train Accuracy: 70.87%

Test Accuracy: 71.74%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.775256872177124 seconds

LR changed during epoch: 4.39e-04 -> 5.86e-04

total runtime to train this model was 27.96640706062317 seconds

Hyperparameteres for model 2 at epoch 24

lr: 0.0007311898711548193

weight_decay: 0.09030465508719347

drop_path: 0.16628173084551218

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.6426079273223877 seconds

Loss: 0.8152

Train Accuracy: 71.08%

Test Accuracy: 69.61%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.627596139907837 seconds
LR changed during epoch: 4.80e-04 -> 4.69e-04
total runtime to train this model was 28.03724503517151 seconds
Hyperparameteres for model 3 at epoch 24
lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.517932653427124 seconds

Loss: 0.8239

Train Accuracy: 70.80%

Test Accuracy: 69.99%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.6263513565063477 seconds
LR changed during epoch: 2.31e-04 -> 2.26e-04
total runtime to train this model was 27.688438653945923 seconds
Hyperparameteres for model 4 at epoch 24
lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.6171133518218994 seconds

Loss: 0.8219

Train Accuracy: 70.83%

Test Accuracy: 70.16%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 24 Summary:

=====
Time: 161.67s (Avg member: 32.33s)

Population Mean Accuracy: 70.09%

Best Member Accuracy: 71.74%

Mean Batch Size: 256

Mean Learning Rate: 6.17e-04

Mean Weight Decay: 0.076

=====
Epoch 25/70

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

built data in 1.7555878162384033 seconds
LR changed during epoch: 5.45e-04 -> 5.32e-04
total runtime to train this model was 27.68167781829834 seconds
Hyperparameteres for model 0 at epoch 25
lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.2469754219055176 seconds

Loss: 0.8462

Train Accuracy: 69.92%

Test Accuracy: 69.64%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.6113595962524414 seconds

LR changed during epoch: 6.52e-04 -> 6.37e-04

total runtime to train this model was 28.04918622970581 seconds

Hyperparameteres for model 1 at epoch 25

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4644949436187744 seconds

Loss: 0.7988

Train Accuracy: 71.60%

Test Accuracy: 71.72%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.6532456874847412 seconds

LR changed during epoch: 5.86e-04 -> 7.31e-04

total runtime to train this model was 28.006168842315674 seconds

Hyperparameteres for model 2 at epoch 25

lr: 0.0007311898711548193

weight_decay: 0.09030465508719347

drop_path: 0.16628173084551218

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5961971282958984 seconds

Loss: 0.8309
Train Accuracy: 70.61%
Test Accuracy: 69.06%
Google Drive already mounted.
Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.7974364757537842 seconds
LR changed during epoch: 4.69e-04 -> 4.57e-04
total runtime to train this model was 27.914124488830566 seconds
Hyperparameteres for model 3 at epoch 25
lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.191261053085327 seconds

Loss: 0.8033
Train Accuracy: 71.57%
Test Accuracy: 70.12%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.627387523651123 seconds
LR changed during epoch: 2.26e-04 -> 2.20e-04
total runtime to train this model was 27.927078247070312 seconds
Hyperparameteres for model 4 at epoch 25
lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.534626007080078 seconds

Loss: 0.8011
Train Accuracy: 71.81%
Test Accuracy: 69.91%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

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

=== PBT Exploit & Explore ===

Top performers: [71.72]

Bottom performers: [69.06]

Member 2: lr changed from 0.0007311898711548193 to 0.00046980901401525734

Member 2: weight_decay changed from 0.09030465508719347 to 0.09667856860397339

Member 2: drop_path changed from 0.16628173084551218 to 0.18032196419187985

Member 2 copied from 1

LR=4.70e-04, WD=0.097, DropPath=0.180, Warmup=5 epochs, Batch=256

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

Time: 163.33s (Avg member: 32.66s)
Population Mean Accuracy: 70.09%
Best Member Accuracy: 71.72%
Mean Batch Size: 256
Mean Learning Rate: 5.65e-04
Mean Weight Decay: 0.078

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.6043660640716553 seconds
LR changed during epoch: 5.32e-04 -> 5.18e-04
total runtime to train this model was 27.731329441070557 seconds
Hyperparameteres for model 0 at epoch 26
lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4852867126464844 seconds
Loss: 0.8265

Train Accuracy: 70.81%

Test Accuracy: 70.61%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.774423360824585 seconds
LR changed during epoch: 6.37e-04 -> 6.20e-04
total runtime to train this model was 28.522674083709717 seconds
Hyperparameteres for model 1 at epoch 26
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.063753604888916 seconds
Loss: 0.7780

Train Accuracy: 72.44%

Test Accuracy: 72.04%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.6796884536743164 seconds
LR changed during epoch: 4.79e-07 -> 9.44e-05
total runtime to train this model was 27.349336624145508 seconds
Hyperparameteres for model 2 at epoch 26
lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4251952171325684 seconds

Loss: 0.7193

Train Accuracy: 74.48%

Test Accuracy: 74.54%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.623871088027954 seconds

LR changed during epoch: 4.57e-04 -> 4.46e-04

total runtime to train this model was 27.376400470733643 seconds

Hyperparameteres for model 3 at epoch 26

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.490490198135376 seconds

Loss: 0.7848

Train Accuracy: 72.12%

Test Accuracy: 70.78%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.7377946376800537 seconds

LR changed during epoch: 2.20e-04 -> 2.14e-04

total runtime to train this model was 27.41043186187744 seconds

Hyperparameteres for model 4 at epoch 26

lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.431079626083374 seconds

Loss: 0.7810
Train Accuracy: 72.25%
Test Accuracy: 69.51%
Google Drive already mounted.
Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

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

Time: 161.92s (Avg member: 32.38s)
Population Mean Accuracy: 71.50%
Best Member Accuracy: 74.54%
Mean Batch Size: 256
Mean Learning Rate: 5.65e-04
Mean Weight Decay: 0.078

=====
Epoch 27/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.6174633502960205 seconds
LR changed during epoch: 5.18e-04 -> 5.04e-04
total runtime to train this model was 27.43945574760437 seconds
Hyperparameteres for model 0 at epoch 27
lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5242326259613037 seconds
Loss: 0.8109

Train Accuracy: 71.52%
Test Accuracy: 70.06%
Google Drive already mounted.
Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6431384086608887 seconds
LR changed during epoch: 6.20e-04 -> 6.03e-04
total runtime to train this model was 27.204219818115234 seconds
Hyperparameteres for model 1 at epoch 27
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5709359645843506 seconds
Loss: 0.7470
Train Accuracy: 73.35%

Test Accuracy: 72.88%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.657627820968628 seconds

LR changed during epoch: 9.44e-05 -> 1.88e-04

total runtime to train this model was 27.10930609703064 seconds

Hyperparameteres for model 2 at epoch 27

lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.7121753692626953 seconds

Loss: 0.6750

Train Accuracy: 76.11%

Test Accuracy: 74.69%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.6715245246887207 seconds

LR changed during epoch: 4.46e-04 -> 4.34e-04

total runtime to train this model was 27.654754877090454 seconds

Hyperparameteres for model 3 at epoch 27

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4805402755737305 seconds

Loss: 0.7618

Train Accuracy: 72.90%

Test Accuracy: 71.27%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.583996295928955 seconds

LR changed during epoch: 2.14e-04 -> 2.09e-04

total runtime to train this model was 27.015642881393433 seconds

Hyperparameteres for model 4 at epoch 27

lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4650354385375977 seconds
Loss: 0.7619

Train Accuracy: 72.87%

Test Accuracy: 71.06%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

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

Time: 159.58s (Avg member: 31.92s)

Population Mean Accuracy: 71.99%

Best Member Accuracy: 74.69%

Mean Batch Size: 256

Mean Learning Rate: 5.65e-04

Mean Weight Decay: 0.078

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

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

built data in 1.595388412475586 seconds

LR changed during epoch: 5.04e-04 -> 4.90e-04

total runtime to train this model was 26.9911820885193 seconds

Hyperparameteres for model 0 at epoch 28

lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.59840726852417 seconds
Loss: 0.7889

Train Accuracy: 72.16%

Test Accuracy: 71.91%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.7459981441497803 seconds

LR changed during epoch: 6.03e-04 -> 5.86e-04

total runtime to train this model was 26.72014093399048 seconds

Hyperparameteres for model 1 at epoch 28

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.336329221725464 seconds

Loss: 0.7348

Train Accuracy: 73.81%

Test Accuracy: 72.86%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.5910820960998535 seconds

LR changed during epoch: 1.88e-04 -> 2.82e-04

total runtime to train this model was 26.882269144058228 seconds

Hyperparameteres for model 2 at epoch 28

lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.506495475769043 seconds

Loss: 0.6710

Train Accuracy: 76.28%

Test Accuracy: 74.45%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.5894029140472412 seconds

LR changed during epoch: 4.34e-04 -> 4.21e-04

total runtime to train this model was 26.901201963424683 seconds

Hyperparameteres for model 3 at epoch 28

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.452887535095215 seconds

Loss: 0.7418

Train Accuracy: 73.65%

Test Accuracy: 70.72%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.5827116966247559 seconds

LR changed during epoch: 2.09e-04 -> 2.03e-04

total runtime to train this model was 26.78516459465027 seconds

Hyperparameteres for model 4 at epoch 28

lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.1065452098846436 seconds

Loss: 0.7395

Train Accuracy: 73.59%

Test Accuracy: 71.88%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

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

Time: 157.67s (Avg member: 31.53s)

Population Mean Accuracy: 72.36%

Best Member Accuracy: 74.45%

Mean Batch Size: 256

Mean Learning Rate: 5.65e-04

Mean Weight Decay: 0.078

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

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

built data in 1.742720365524292 seconds

LR changed during epoch: 4.90e-04 -> 4.75e-04

total runtime to train this model was 26.83327603340149 seconds

Hyperparameteres for model 0 at epoch 29

lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.8240158557891846 seconds

Loss: 0.7741

Train Accuracy: 72.58%

Test Accuracy: 71.45%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.592947006225586 seconds

LR changed during epoch: 5.86e-04 -> 5.68e-04

total runtime to train this model was 26.964300394058228 seconds

Hyperparameteres for model 1 at epoch 29

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.425412893295288 seconds

Loss: 0.7204

Train Accuracy: 74.46%

Test Accuracy: 72.56%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.5827603340148926 seconds

LR changed during epoch: 2.82e-04 -> 3.76e-04

total runtime to train this model was 26.67005705833435 seconds

Hyperparameteres for model 2 at epoch 29

lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4742512702941895 seconds

Loss: 0.6732

Train Accuracy: 76.15%

Test Accuracy: 73.86%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.6022205352783203 seconds

LR changed during epoch: 4.21e-04 -> 4.08e-04

total runtime to train this model was 26.9399197101593 seconds

Hyperparameteres for model 3 at epoch 29

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.499238967895508 seconds

Loss: 0.7310

Train Accuracy: 74.16%

Test Accuracy: 72.45%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.6532838344573975 seconds

LR changed during epoch: 2.03e-04 -> 1.96e-04
total runtime to train this model was 26.89417266845703 seconds
Hyperparameteres for model 4 at epoch 29
lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5003764629364014 seconds
Loss: 0.7271

Train Accuracy: 74.27%

Test Accuracy: 71.56%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 29 Summary:

=====
Time: 157.46s (Avg member: 31.49s)

Population Mean Accuracy: 72.38%

Best Member Accuracy: 73.86%

Mean Batch Size: 256

Mean Learning Rate: 5.65e-04

Mean Weight Decay: 0.078

=====
Epoch 30/70

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

built data in 1.6282875537872314 seconds

LR changed during epoch: 4.75e-04 -> 4.60e-04

total runtime to train this model was 26.991806745529175 seconds

Hyperparameteres for model 0 at epoch 30

lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4942638874053955 seconds
Loss: 0.7546

Train Accuracy: 73.42%

Test Accuracy: 72.43%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.6104779243469238 seconds

LR changed during epoch: 5.68e-04 -> 5.50e-04

total runtime to train this model was 27.22235345840454 seconds

Hyperparameteres for model 1 at epoch 30
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.457191228866577 seconds

Loss: 0.7037

Train Accuracy: 75.04%

Test Accuracy: 74.41%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.8469700813293457 seconds

LR changed during epoch: 3.76e-04 -> 4.70e-04

total runtime to train this model was 26.73424983024597 seconds

Hyperparameteres for model 2 at epoch 30

lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.2825863361358643 seconds

Loss: 0.6917

Train Accuracy: 75.47%

Test Accuracy: 73.99%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.5966343879699707 seconds

LR changed during epoch: 4.08e-04 -> 3.95e-04

total runtime to train this model was 26.931654453277588 seconds

Hyperparameteres for model 3 at epoch 30

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.450963020324707 seconds

Loss: 0.7041

Train Accuracy: 74.69%

Test Accuracy: 73.02%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.618382215499878 seconds

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

total runtime to train this model was 26.826387405395508 seconds

Hyperparameteres for model 4 at epoch 30

lr: 0.0002804193304595399

weight_decay: 0.03654601866836071

drop_path: 0.008655183396399702

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.402191400527954 seconds

Loss: 0.7115

Train Accuracy: 74.69%

Test Accuracy: 71.95%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

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

=== PBT Exploit & Explore ===

Top performers: [74.41]

Bottom performers: [71.95]

Member 4: lr changed from 0.0002804193304595399 to 0.0004058603111642117

Member 4: weight_decay changed from 0.03654601866836071 to 0.04977525351286773

Member 4: drop_path changed from 0.008655183396399702 to 0.027005502982638718

Member 4 copied from 1

LR=4.06e-04, WD=0.050, DropPath=0.027, Warmup=5 epochs, Batch=256

=====
Epoch 30 Summary:

Time: 157.37s (Avg member: 31.47s)

Population Mean Accuracy: 73.16%

Best Member Accuracy: 74.41%

Mean Batch Size: 256

Mean Learning Rate: 5.90e-04

Mean Weight Decay: 0.080

=====
Epoch 31/70

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

built data in 1.6061315536499023 seconds

LR changed during epoch: 4.60e-04 -> 4.44e-04

total runtime to train this model was 26.520527839660645 seconds

Hyperparameteres for model 0 at epoch 31

lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.979797124862671 seconds

Loss: 0.7377

Train Accuracy: 73.90%

Test Accuracy: 71.80%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.8234951496124268 seconds

LR changed during epoch: 5.50e-04 -> 5.32e-04

total runtime to train this model was 28.158165216445923 seconds

Hyperparameteres for model 1 at epoch 31

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4598448276519775 seconds

Loss: 0.6832

Train Accuracy: 75.82%

Test Accuracy: 74.50%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.6313986778259277 seconds

LR changed during epoch: 4.70e-04 -> 4.70e-04

total runtime to train this model was 27.673150300979614 seconds

Hyperparameteres for model 2 at epoch 31

lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5112946033477783 seconds

Loss: 0.7004

Train Accuracy: 75.01%

Test Accuracy: 73.68%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.6132049560546875 seconds

LR changed during epoch: 3.95e-04 -> 3.82e-04

total runtime to train this model was 26.943138599395752 seconds

Hyperparameteres for model 3 at epoch 31
lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.387873649597168 seconds

Loss: 0.6849

Train Accuracy: 75.53%

Test Accuracy: 73.36%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.7323532104492188 seconds

LR changed during epoch: 4.14e-07 -> 8.16e-05

total runtime to train this model was 26.776688814163208 seconds

Hyperparameteres for model 4 at epoch 31

lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.2761831283569336 seconds

Loss: 0.5951

Train Accuracy: 78.76%

Test Accuracy: 76.26%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 31 Summary:

=====
Time: 159.36s (Avg member: 31.87s)

Population Mean Accuracy: 73.92%

Best Member Accuracy: 76.26%

Mean Batch Size: 256

Mean Learning Rate: 5.90e-04

Mean Weight Decay: 0.080
=====

Epoch 32/70
=====

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

built data in 1.6072945594787598 seconds

LR changed during epoch: 4.44e-04 -> 4.28e-04

total runtime to train this model was 27.37604308128357 seconds

Hyperparameteres for model 0 at epoch 32

lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.49151873588562 seconds

Loss: 0.7278

Train Accuracy: 74.41%

Test Accuracy: 72.76%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.6523857116699219 seconds

LR changed during epoch: 5.32e-04 -> 5.13e-04

total runtime to train this model was 27.979126453399658 seconds

Hyperparameteres for model 1 at epoch 32

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.568474292755127 seconds

Loss: 0.6645

Train Accuracy: 76.32%

Test Accuracy: 75.14%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.8227312564849854 seconds

LR changed during epoch: 4.70e-04 -> 4.69e-04

total runtime to train this model was 27.245683431625366 seconds

Hyperparameteres for model 2 at epoch 32

lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.595501661300659 seconds

Loss: 0.6822

Train Accuracy: 75.73%

Test Accuracy: 74.00%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.663475513458252 seconds
LR changed during epoch: 3.82e-04 -> 3.69e-04
total runtime to train this model was 27.430500507354736 seconds
Hyperparameteres for model 3 at epoch 32
lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5875980854034424 seconds
Loss: 0.6710

Train Accuracy: 76.15%

Test Accuracy: 73.90%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.5988359451293945 seconds
LR changed during epoch: 8.16e-05 -> 1.63e-04
total runtime to train this model was 27.481127977371216 seconds
Hyperparameteres for model 4 at epoch 32
lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4914629459381104 seconds
Loss: 0.5587

Train Accuracy: 80.20%

Test Accuracy: 76.10%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 32 Summary:

=====
Time: 160.82s (Avg member: 32.16s)

Population Mean Accuracy: 74.38%

Best Member Accuracy: 76.10%

Mean Batch Size: 256

Mean Learning Rate: 5.90e-04

Mean Weight Decay: 0.080

=====
Epoch 33/70

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

built data in 1.6573231220245361 seconds
LR changed during epoch: 4.28e-04 -> 4.13e-04
total runtime to train this model was 27.833229303359985 seconds
Hyperparameteres for model 0 at epoch 33
lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.7325174808502197 seconds

Loss: 0.7074

Train Accuracy: 75.03%

Test Accuracy: 73.59%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.6659319400787354 seconds

LR changed during epoch: 5.13e-04 -> 4.94e-04

total runtime to train this model was 27.427855253219604 seconds

Hyperparameteres for model 1 at epoch 33

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.535102367401123 seconds

Loss: 0.6441

Train Accuracy: 77.17%

Test Accuracy: 74.97%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.6161127090454102 seconds

LR changed during epoch: 4.69e-04 -> 4.67e-04

total runtime to train this model was 27.920109748840332 seconds

Hyperparameteres for model 2 at epoch 33

lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.482618570327759 seconds

Loss: 0.6725
Train Accuracy: 76.05%
Test Accuracy: 73.84%
Google Drive already mounted.
Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.689178228378296 seconds
LR changed during epoch: 3.69e-04 -> 3.55e-04
total runtime to train this model was 27.733620643615723 seconds
Hyperparameteres for model 3 at epoch 33
lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.727874755859375 seconds

Loss: 0.6523

Train Accuracy: 77.07%

Test Accuracy: 74.63%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.6200973987579346 seconds
LR changed during epoch: 1.63e-04 -> 2.44e-04
total runtime to train this model was 27.732978582382202 seconds
Hyperparameteres for model 4 at epoch 33
lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5293357372283936 seconds

Loss: 0.5562

Train Accuracy: 80.39%

Test Accuracy: 76.62%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 33 Summary:
=====

Time: 163.10s (Avg member: 32.62s)

Population Mean Accuracy: 74.73%

Best Member Accuracy: 76.62%

Mean Batch Size: 256

Mean Learning Rate: 5.90e-04

Mean Weight Decay: 0.080

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.645763635635376 seconds
LR changed during epoch: 4.13e-04 -> 3.97e-04
total runtime to train this model was 27.594489097595215 seconds
Hyperparameteres for model 0 at epoch 34
lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.572075843811035 seconds

Loss: 0.6920

Train Accuracy: 75.39%

Test Accuracy: 73.48%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.649820327758789 seconds
LR changed during epoch: 4.94e-04 -> 4.75e-04
total runtime to train this model was 27.19060444831848 seconds
Hyperparameteres for model 1 at epoch 34
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.7764358520507812 seconds

Loss: 0.6292

Train Accuracy: 77.57%

Test Accuracy: 75.73%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.659134864807129 seconds
LR changed during epoch: 4.67e-04 -> 4.65e-04
total runtime to train this model was 27.16121196746826 seconds
Hyperparameteres for model 2 at epoch 34
lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4549238681793213 seconds
Loss: 0.6583

Train Accuracy: 76.73%

Test Accuracy: 74.56%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.5954735279083252 seconds
LR changed during epoch: 3.55e-04 -> 3.41e-04
total runtime to train this model was 27.524726152420044 seconds
Hyperparameteres for model 3 at epoch 34
lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4220378398895264 seconds
Loss: 0.6268

Train Accuracy: 77.71%

Test Accuracy: 73.69%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.6389257907867432 seconds
LR changed during epoch: 2.44e-04 -> 3.25e-04
total runtime to train this model was 26.92386531829834 seconds
Hyperparameteres for model 4 at epoch 34
lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.893977403640747 seconds
Loss: 0.5569

Train Accuracy: 80.23%

Test Accuracy: 75.88%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 34 Summary:

=====
Time: 159.97s (Avg member: 31.99s)

Population Mean Accuracy: 74.67%

Best Member Accuracy: 75.88%
Mean Batch Size: 256
Mean Learning Rate: 5.90e-04
Mean Weight Decay: 0.080

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.7877168655395508 seconds
LR changed during epoch: 3.97e-04 -> 3.80e-04
total runtime to train this model was 26.683876991271973 seconds
Hyperparameteres for model 0 at epoch 35
lr: 0.0006782416715044019

weight_decay: 0.14890877193751148

drop_path: 0.10322556685431711

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.9254188537597656 seconds
Loss: 0.6757

Train Accuracy: 76.19%

Test Accuracy: 73.45%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6450557708740234 seconds
LR changed during epoch: 4.75e-04 -> 4.55e-04
total runtime to train this model was 27.16965103149414 seconds
Hyperparameteres for model 1 at epoch 35
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.469341993331909 seconds
Loss: 0.6123

Train Accuracy: 78.32%

Test Accuracy: 75.12%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.605590581893921 seconds
LR changed during epoch: 4.65e-04 -> 4.63e-04
total runtime to train this model was 26.957106590270996 seconds
Hyperparameteres for model 2 at epoch 35
lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4720845222473145 seconds

Loss: 0.6508

Train Accuracy: 77.30%

Test Accuracy: 75.07%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.7357816696166992 seconds

LR changed during epoch: 3.41e-04 -> 3.27e-04

total runtime to train this model was 26.745667934417725 seconds

Hyperparameteres for model 3 at epoch 35

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.8588032722473145 seconds

Loss: 0.6096

Train Accuracy: 78.19%

Test Accuracy: 74.03%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.5980539321899414 seconds

LR changed during epoch: 3.25e-04 -> 4.06e-04

total runtime to train this model was 27.19073987007141 seconds

Hyperparameteres for model 4 at epoch 35

lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.476233959197998 seconds

Loss: 0.5653

Train Accuracy: 79.69%

Test Accuracy: 75.08%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

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

=== PBT Exploit & Explore ===

Top performers: [75.12]

Bottom performers: [73.45]

Member 0: lr changed from 0.0006782416715044019 to 0.0007764718898669612

Member 0: weight_decay changed from 0.14890877193751148 to 0.15

Member 0: drop_path changed from 0.10322556685431711 to 0.0693948401275121

Member 0 copied from 1

LR=7.76e-04, WD=0.150, DropPath=0.069, Warmup=5 epochs, Batch=256

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

Time: 158.51s (Avg member: 31.70s)

Population Mean Accuracy: 74.55%

Best Member Accuracy: 75.12%

Mean Batch Size: 256

Mean Learning Rate: 6.09e-04

Mean Weight Decay: 0.080

=====

Epoch 36/70
=====

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

built data in 1.656679391860962 seconds

LR changed during epoch: 7.92e-07 -> 1.56e-04

total runtime to train this model was 27.201841831207275 seconds

Hyperparameteres for model 0 at epoch 36

lr: 0.0007764718898669612

weight_decay: 0.15

drop_path: 0.0693948401275121

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.487744092941284 seconds

Loss: 0.5176

Train Accuracy: 81.64%

Test Accuracy: 77.42%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.606769323348999 seconds

LR changed during epoch: 4.55e-04 -> 4.36e-04

total runtime to train this model was 26.943486213684082 seconds

Hyperparameteres for model 1 at epoch 36

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.741011381149292 seconds

Loss: 0.5956

Train Accuracy: 78.83%

Test Accuracy: 77.07%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.8542003631591797 seconds

LR changed during epoch: 4.63e-04 -> 4.60e-04

total runtime to train this model was 27.061458587646484 seconds

Hyperparameteres for model 2 at epoch 36

lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.154064178466797 seconds

Loss: 0.6382

Train Accuracy: 77.35%

Test Accuracy: 74.99%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.5828273296356201 seconds

LR changed during epoch: 3.27e-04 -> 3.13e-04

total runtime to train this model was 27.276391744613647 seconds

Hyperparameteres for model 3 at epoch 36

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4845244884490967 seconds

Loss: 0.5944

Train Accuracy: 78.92%

Test Accuracy: 75.40%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.6352875232696533 seconds

LR changed during epoch: 4.06e-04 -> 4.06e-04

total runtime to train this model was 27.217371940612793 seconds

Hyperparameteres for model 4 at epoch 36

lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.439028024673462 seconds

Loss: 0.5675

Train Accuracy: 79.71%

Test Accuracy: 74.86%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

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

Time: 158.60s (Avg member: 31.72s)

Population Mean Accuracy: 75.95%

Best Member Accuracy: 77.42%

Mean Batch Size: 256

Mean Learning Rate: 6.09e-04

Mean Weight Decay: 0.080

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

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

built data in 1.6804635524749756 seconds

LR changed during epoch: 1.56e-04 -> 3.11e-04

total runtime to train this model was 27.246028900146484 seconds

Hyperparameteres for model 0 at epoch 37

lr: 0.0007764718898669612

weight_decay: 0.15

drop_path: 0.0693948401275121

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.4113032817840576 seconds

Loss: 0.5079

Train Accuracy: 82.04%

Test Accuracy: 77.21%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.6105127334594727 seconds

LR changed during epoch: 4.36e-04 -> 4.16e-04

total runtime to train this model was 27.208756685256958 seconds

Hyperparameteres for model 1 at epoch 37

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.531592607498169 seconds

Loss: 0.5705

Train Accuracy: 79.65%

Test Accuracy: 76.48%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.5809051990509033 seconds

LR changed during epoch: 4.60e-04 -> 4.57e-04

total runtime to train this model was 27.58814311027527 seconds

Hyperparameteres for model 2 at epoch 37

lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5215227603912354 seconds

Loss: 0.6210

Train Accuracy: 78.11%

Test Accuracy: 75.53%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.6151378154754639 seconds

LR changed during epoch: 3.13e-04 -> 2.99e-04

total runtime to train this model was 27.435739517211914 seconds

Hyperparameteres for model 3 at epoch 37

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.1880905628204346 seconds

Loss: 0.5751

Train Accuracy: 79.43%

Test Accuracy: 74.52%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.7154712677001953 seconds

LR changed during epoch: 4.06e-04 -> 4.05e-04
total runtime to train this model was 27.195378303527832 seconds
Hyperparameteres for model 4 at epoch 37
lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5620694160461426 seconds
Loss: 0.5564

Train Accuracy: 80.12%

Test Accuracy: 75.44%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 37 Summary:

=====
Time: 160.34s (Avg member: 32.07s)

Population Mean Accuracy: 75.84%

Best Member Accuracy: 77.21%

Mean Batch Size: 256

Mean Learning Rate: 6.09e-04

Mean Weight Decay: 0.080

=====
Epoch 38/70

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

built data in 1.6335992813110352 seconds

LR changed during epoch: 3.11e-04 -> 4.67e-04

total runtime to train this model was 27.38429880142212 seconds

Hyperparameteres for model 0 at epoch 38

lr: 0.0007764718898669612

weight_decay: 0.15

drop_path: 0.0693948401275121

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4861068725585938 seconds
Loss: 0.5405

Train Accuracy: 80.81%

Test Accuracy: 75.83%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.5860693454742432 seconds

LR changed during epoch: 4.16e-04 -> 3.96e-04

total runtime to train this model was 27.228044033050537 seconds

Hyperparameteres for model 1 at epoch 38
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.7334046363830566 seconds
Loss: 0.5626

Train Accuracy: 80.18%

Test Accuracy: 76.63%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.7541873455047607 seconds

LR changed during epoch: 4.57e-04 -> 4.52e-04

total runtime to train this model was 26.558210372924805 seconds

Hyperparameteres for model 2 at epoch 38

lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.3405771255493164 seconds
Loss: 0.6124

Train Accuracy: 78.22%

Test Accuracy: 75.44%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.5839314460754395 seconds

LR changed during epoch: 2.99e-04 -> 2.85e-04

total runtime to train this model was 27.338284969329834 seconds

Hyperparameteres for model 3 at epoch 38

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.483092784881592 seconds
Loss: 0.5558

Train Accuracy: 80.29%

Test Accuracy: 75.60%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.6204755306243896 seconds

LR changed during epoch: 4.05e-04 -> 4.04e-04

total runtime to train this model was 27.270164251327515 seconds

Hyperparameteres for model 4 at epoch 38

lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5407700538635254 seconds

Loss: 0.5443

Train Accuracy: 80.81%

Test Accuracy: 75.27%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 38 Summary:

Time: 158.77s (Avg member: 31.75s)

Population Mean Accuracy: 75.75%

Best Member Accuracy: 76.63%

Mean Batch Size: 256

Mean Learning Rate: 6.09e-04

Mean Weight Decay: 0.080

=====
Epoch 39/70

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

built data in 1.646244764328003 seconds

LR changed during epoch: 4.67e-04 -> 6.22e-04

total runtime to train this model was 27.23594856262207 seconds

Hyperparameteres for model 0 at epoch 39

lr: 0.0007764718898669612

weight_decay: 0.15

drop_path: 0.0693948401275121

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.7520203590393066 seconds

Loss: 0.5771

Train Accuracy: 79.39%

Test Accuracy: 74.87%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6371068954467773 seconds
LR changed during epoch: 3.96e-04 -> 3.77e-04
total runtime to train this model was 27.066648721694946 seconds
Hyperparameteres for model 1 at epoch 39
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4553966522216797 seconds
Loss: 0.5420
Train Accuracy: 80.62%
Test Accuracy: 77.41%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6137003898620605 seconds
LR changed during epoch: 4.52e-04 -> 4.48e-04
total runtime to train this model was 27.397364377975464 seconds
Hyperparameteres for model 2 at epoch 39
lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.484471321105957 seconds
Loss: 0.5960
Train Accuracy: 78.68%
Test Accuracy: 75.57%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6588976383209229 seconds
LR changed during epoch: 2.85e-04 -> 2.71e-04
total runtime to train this model was 27.21453309059143 seconds
Hyperparameteres for model 3 at epoch 39
lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.6093385219573975 seconds

Loss: 0.5482

Train Accuracy: 80.64%

Test Accuracy: 75.82%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.827033519744873 seconds

LR changed during epoch: 4.04e-04 -> 4.02e-04

total runtime to train this model was 27.052210569381714 seconds

Hyperparameteres for model 4 at epoch 39

lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.3007497787475586 seconds

Loss: 0.5229

Train Accuracy: 81.24%

Test Accuracy: 75.42%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 39 Summary:

=====
Time: 160.27s (Avg member: 32.05s)

Population Mean Accuracy: 75.82%

Best Member Accuracy: 77.41%

Mean Batch Size: 256

Mean Learning Rate: 6.09e-04

Mean Weight Decay: 0.080

=====
Epoch 40/70

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

built data in 1.6167032718658447 seconds

LR changed during epoch: 6.22e-04 -> 7.76e-04

total runtime to train this model was 27.351734161376953 seconds

Hyperparameteres for model 0 at epoch 40

lr: 0.0007764718898669612

weight_decay: 0.15

drop_path: 0.0693948401275121

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5311219692230225 seconds

Loss: 0.6208
Train Accuracy: 77.96%
Test Accuracy: 73.22%
Google Drive already mounted.
Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.686762809753418 seconds
LR changed during epoch: 3.77e-04 -> 3.57e-04
total runtime to train this model was 27.369251251220703 seconds
Hyperparameteres for model 1 at epoch 40
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4286048412323 seconds

Loss: 0.5259

Train Accuracy: 81.21%

Test Accuracy: 77.21%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.707167625427246 seconds
LR changed during epoch: 4.48e-04 -> 4.43e-04
total runtime to train this model was 26.978705406188965 seconds
Hyperparameteres for model 2 at epoch 40
lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.912187099456787 seconds

Loss: 0.5924

Train Accuracy: 78.90%

Test Accuracy: 76.45%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6081275939941406 seconds
LR changed during epoch: 2.71e-04 -> 2.57e-04
total runtime to train this model was 27.293663263320923 seconds
Hyperparameteres for model 3 at epoch 40
lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.6029489040374756 seconds

Loss: 0.5197

Train Accuracy: 81.36%

Test Accuracy: 75.99%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.6315040588378906 seconds

LR changed during epoch: 4.02e-04 -> 4.00e-04

total runtime to train this model was 27.165891885757446 seconds

Hyperparameteres for model 4 at epoch 40

lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.433657169342041 seconds

Loss: 0.5139

Train Accuracy: 81.70%

Test Accuracy: 76.34%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

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

=== PBT Exploit & Explore ===

Top performers: [77.21]

Bottom performers: [73.22]

Member 0: lr changed from 0.0007764718898669612 to 0.0009491849758535866

Member 0: weight_decay changed from 0.15 to 0.1251263379559215

Member 0: drop_path changed from 0.0693948401275121 to 0.04674424727362794

Member 0 copied from 1

LR=9.49e-04, WD=0.125, DropPath=0.047, Warmup=5 epochs, Batch=256

=====
Epoch 40 Summary:

=====
Time: 159.54s (Avg member: 31.91s)

Population Mean Accuracy: 75.84%

Best Member Accuracy: 77.21%

Mean Batch Size: 256

Mean Learning Rate: 6.44e-04

Mean Weight Decay: 0.075

=====
Epoch 41/70

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

built data in 1.5883591175079346 seconds
LR changed during epoch: 9.69e-07 -> 1.91e-04
total runtime to train this model was 27.207897901535034 seconds
Hyperparameteres for model 0 at epoch 41
lr: 0.0009491849758535866

weight_decay: 0.1251263379559215

drop_path: 0.04674424727362794

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.0123672485351562 seconds

Loss: 0.4386

Train Accuracy: 84.34%

Test Accuracy: 77.87%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.7728323936462402 seconds

LR changed during epoch: 3.57e-04 -> 3.38e-04

total runtime to train this model was 27.024970769882202 seconds

Hyperparameteres for model 1 at epoch 41

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.7395179271698 seconds

Loss: 0.5043

Train Accuracy: 82.17%

Test Accuracy: 77.07%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.6247093677520752 seconds

LR changed during epoch: 4.43e-04 -> 4.37e-04

total runtime to train this model was 26.86979365348816 seconds

Hyperparameteres for model 2 at epoch 41

lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4164812564849854 seconds

Loss: 0.5751
Train Accuracy: 79.58%
Test Accuracy: 75.79%
Google Drive already mounted.
Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.5963480472564697 seconds
LR changed during epoch: 2.57e-04 -> 2.43e-04
total runtime to train this model was 26.41228675842285 seconds
Hyperparameteres for model 3 at epoch 41
lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4254534244537354 seconds

Loss: 0.5105
Train Accuracy: 81.93%
Test Accuracy: 76.32%
Google Drive already mounted.
Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.5575809478759766 seconds
LR changed during epoch: 4.00e-04 -> 3.97e-04
total runtime to train this model was 26.54916524887085 seconds
Hyperparameteres for model 4 at epoch 41
lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.7428462505340576 seconds

Loss: 0.4969
Train Accuracy: 82.15%
Test Accuracy: 75.95%
Google Drive already mounted.
Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 41 Summary:
=====

Time: 156.83s (Avg member: 31.37s)
Population Mean Accuracy: 76.60%
Best Member Accuracy: 77.87%
Mean Batch Size: 256
Mean Learning Rate: 6.44e-04
Mean Weight Decay: 0.075

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.7870886325836182 seconds
LR changed during epoch: 1.91e-04 -> 3.81e-04
total runtime to train this model was 26.247016191482544 seconds
Hyperparameteres for model 0 at epoch 42
lr: 0.0009491849758535866

weight_decay: 0.1251263379559215

drop_path: 0.04674424727362794

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.1487550735473633 seconds
Loss: 0.4519

Train Accuracy: 83.83%

Test Accuracy: 77.45%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.5973527431488037 seconds
LR changed during epoch: 3.38e-04 -> 3.19e-04
total runtime to train this model was 26.908952713012695 seconds
Hyperparameteres for model 1 at epoch 42
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.399388074874878 seconds
Loss: 0.4899

Train Accuracy: 82.52%

Test Accuracy: 77.62%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.5874147415161133 seconds
LR changed during epoch: 4.37e-04 -> 4.31e-04
total runtime to train this model was 26.60100793838501 seconds
Hyperparameteres for model 2 at epoch 42
lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5101943016052246 seconds
Loss: 0.5664

Train Accuracy: 79.79%

Test Accuracy: 76.98%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.5525760650634766 seconds
LR changed during epoch: 2.43e-04 -> 2.29e-04
total runtime to train this model was 26.61304998397827 seconds
Hyperparameteres for model 3 at epoch 42
lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.8768253326416016 seconds
Loss: 0.4873

Train Accuracy: 82.57%

Test Accuracy: 76.79%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.7441468238830566 seconds
LR changed during epoch: 3.97e-04 -> 3.94e-04
total runtime to train this model was 26.43885636329651 seconds
Hyperparameteres for model 4 at epoch 42
lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.117290496826172 seconds
Loss: 0.4898

Train Accuracy: 82.37%

Test Accuracy: 76.77%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 42 Summary:

=====
Time: 156.35s (Avg member: 31.27s)
Population Mean Accuracy: 77.12%

Best Member Accuracy: 77.62%
Mean Batch Size: 256
Mean Learning Rate: 6.44e-04
Mean Weight Decay: 0.075

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.5998568534851074 seconds
LR changed during epoch: 3.81e-04 -> 5.70e-04
total runtime to train this model was 27.575770139694214 seconds
Hyperparameteres for model 0 at epoch 43
lr: 0.0009491849758535866

weight_decay: 0.1251263379559215

drop_path: 0.04674424727362794

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4392764568328857 seconds
Loss: 0.5055

Train Accuracy: 81.96%

Test Accuracy: 75.92%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6112282276153564 seconds
LR changed during epoch: 3.19e-04 -> 3.00e-04
total runtime to train this model was 26.835798263549805 seconds
Hyperparameteres for model 1 at epoch 43
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.410588026046753 seconds
Loss: 0.4718

Train Accuracy: 83.19%

Test Accuracy: 77.67%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.5927317142486572 seconds
LR changed during epoch: 4.31e-04 -> 4.25e-04
total runtime to train this model was 27.09941816329956 seconds
Hyperparameteres for model 2 at epoch 43
lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.1141693592071533 seconds

Loss: 0.5483

Train Accuracy: 80.47%

Test Accuracy: 76.14%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.7101478576660156 seconds

LR changed during epoch: 2.29e-04 -> 2.16e-04

total runtime to train this model was 27.00327706336975 seconds

Hyperparameteres for model 3 at epoch 43

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4786694049835205 seconds

Loss: 0.4699

Train Accuracy: 83.23%

Test Accuracy: 76.86%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.571500539779663 seconds

LR changed during epoch: 3.94e-04 -> 3.91e-04

total runtime to train this model was 27.191307306289673 seconds

Hyperparameteres for model 4 at epoch 43

lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5089099407196045 seconds

Loss: 0.4747

Train Accuracy: 82.99%

Test Accuracy: 76.27%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

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

Time: 157.97s (Avg member: 31.59s)
Population Mean Accuracy: 76.57%
Best Member Accuracy: 77.67%
Mean Batch Size: 256
Mean Learning Rate: 6.44e-04
Mean Weight Decay: 0.075

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.6607143878936768 seconds
LR changed during epoch: 5.70e-04 -> 7.60e-04
total runtime to train this model was 27.146894454956055 seconds
Hyperparameteres for model 0 at epoch 44
lr: 0.0009491849758535866

weight_decay: 0.1251263379559215

drop_path: 0.04674424727362794

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5624501705169678 seconds
Loss: 0.5533

Train Accuracy: 80.36%

Test Accuracy: 73.52%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.7664275169372559 seconds
LR changed during epoch: 3.00e-04 -> 2.81e-04
total runtime to train this model was 27.612103939056396 seconds
Hyperparameteres for model 1 at epoch 44
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.2938828468322754 seconds
Loss: 0.4524

Train Accuracy: 83.79%

Test Accuracy: 78.13%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6363394260406494 seconds

LR changed during epoch: 4.25e-04 -> 4.18e-04
total runtime to train this model was 27.430182933807373 seconds
Hyperparameteres for model 2 at epoch 44
lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.411712884902954 seconds

Loss: 0.5429

Train Accuracy: 80.72%

Test Accuracy: 76.53%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.5998456478118896 seconds

LR changed during epoch: 2.16e-04 -> 2.02e-04

total runtime to train this model was 27.233795881271362 seconds

Hyperparameteres for model 3 at epoch 44

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.457197666168213 seconds

Loss: 0.4552

Train Accuracy: 83.76%

Test Accuracy: 77.13%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.7075307369232178 seconds

LR changed during epoch: 3.91e-04 -> 3.87e-04

total runtime to train this model was 26.640259265899658 seconds

Hyperparameteres for model 4 at epoch 44

lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.8341832160949707 seconds

Loss: 0.4565

Train Accuracy: 83.74%

Test Accuracy: 76.33%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

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

Time: 160.24s (Avg member: 32.05s)

Population Mean Accuracy: 76.33%

Best Member Accuracy: 78.13%

Mean Batch Size: 256

Mean Learning Rate: 6.44e-04

Mean Weight Decay: 0.075

=====

Epoch 45/70
=====

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

built data in 1.5832312107086182 seconds

LR changed during epoch: 7.60e-04 -> 9.49e-04

total runtime to train this model was 26.729231357574463 seconds

Hyperparameteres for model 0 at epoch 45

lr: 0.0009491849758535866

weight_decay: 0.1251263379559215

drop_path: 0.04674424727362794

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.455991268157959 seconds

Loss: 0.6086

Train Accuracy: 78.33%

Test Accuracy: 74.66%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.6210761070251465 seconds

LR changed during epoch: 2.81e-04 -> 2.63e-04

total runtime to train this model was 27.068116903305054 seconds

Hyperparameteres for model 1 at epoch 45

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.492227077484131 seconds

Loss: 0.4394

Train Accuracy: 84.31%

Test Accuracy: 78.19%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.631998062133789 seconds

LR changed during epoch: 4.18e-04 -> 4.11e-04

total runtime to train this model was 27.46005868911743 seconds

Hyperparameteres for model 2 at epoch 45

lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.8060190677642822 seconds

Loss: 0.5325

Train Accuracy: 81.01%

Test Accuracy: 76.78%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.8072772026062012 seconds

LR changed during epoch: 2.02e-04 -> 1.89e-04

total runtime to train this model was 27.253987550735474 seconds

Hyperparameteres for model 3 at epoch 45

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.8927881717681885 seconds

Loss: 0.4353

Train Accuracy: 84.43%

Test Accuracy: 76.42%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.6108534336090088 seconds

LR changed during epoch: 3.87e-04 -> 3.83e-04

total runtime to train this model was 27.527302980422974 seconds

Hyperparameteres for model 4 at epoch 45

lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4698891639709473 seconds

Loss: 0.4404

Train Accuracy: 84.27%

Test Accuracy: 76.37%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

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

=== PBT Exploit & Explore ===

Top performers: [78.19]

Bottom performers: [74.66]

Member 0: lr changed from 0.0009491849758535866 to 0.0008236220515686955

Member 0: weight_decay changed from 0.1251263379559215 to 0.14376323050752654

Member 0: drop_path changed from 0.04674424727362794 to 0.03566181033783931

Member 0 copied from 1

LR=8.24e-04, WD=0.144, DropPath=0.036, Warmup=5 epochs, Batch=256

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

Time: 158.72s (Avg member: 31.74s)

Population Mean Accuracy: 76.48%

Best Member Accuracy: 78.19%

Mean Batch Size: 256

Mean Learning Rate: 6.19e-04

Mean Weight Decay: 0.079

=====
Epoch 46/70
=====

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

built data in 1.600677728652954 seconds

LR changed during epoch: 8.40e-07 -> 1.66e-04

total runtime to train this model was 26.82002019882202 seconds

Hyperparameteres for model 0 at epoch 46

lr: 0.0008236220515686955

weight_decay: 0.14376323050752654

drop_path: 0.03566181033783931

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5064117908477783 seconds

Loss: 0.3647

Train Accuracy: 87.14%

Test Accuracy: 78.76%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.6771371364593506 seconds

LR changed during epoch: 2.63e-04 -> 2.44e-04

total runtime to train this model was 26.875413417816162 seconds

Hyperparameteres for model 1 at epoch 46
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 4.015235424041748 seconds

Loss: 0.4215

Train Accuracy: 84.75%

Test Accuracy: 78.36%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.5953280925750732 seconds

LR changed during epoch: 4.11e-04 -> 4.03e-04

total runtime to train this model was 27.260749101638794 seconds

Hyperparameteres for model 2 at epoch 46

lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.8085665702819824 seconds

Loss: 0.5080

Train Accuracy: 81.91%

Test Accuracy: 77.04%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.5793380737304688 seconds

LR changed during epoch: 1.89e-04 -> 1.76e-04

total runtime to train this model was 27.146435260772705 seconds

Hyperparameteres for model 3 at epoch 46

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.7733564376831055 seconds

Loss: 0.4123

Train Accuracy: 85.36%

Test Accuracy: 77.24%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.6791925430297852 seconds

LR changed during epoch: 3.83e-04 -> 3.78e-04

total runtime to train this model was 27.529873609542847 seconds

Hyperparameteres for model 4 at epoch 46

lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.920974016189575 seconds

Loss: 0.4257

Train Accuracy: 84.75%

Test Accuracy: 76.07%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 46 Summary:

Time: 161.16s (Avg member: 32.23s)

Population Mean Accuracy: 77.49%

Best Member Accuracy: 78.76%

Mean Batch Size: 256

Mean Learning Rate: 6.19e-04

Mean Weight Decay: 0.079

=====
Epoch 47/70

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

built data in 1.5809612274169922 seconds

LR changed during epoch: 1.66e-04 -> 3.30e-04

total runtime to train this model was 27.38120126724243 seconds

Hyperparameteres for model 0 at epoch 47

lr: 0.0008236220515686955

weight_decay: 0.14376323050752654

drop_path: 0.03566181033783931

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.557929039001465 seconds

Loss: 0.3811

Train Accuracy: 86.43%

Test Accuracy: 77.46%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.5984959602355957 seconds
LR changed during epoch: 2.44e-04 -> 2.27e-04
total runtime to train this model was 26.86367106437683 seconds
Hyperparameteres for model 1 at epoch 47
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.455965518951416 seconds

Loss: 0.4034

Train Accuracy: 85.62%

Test Accuracy: 78.71%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.5595519542694092 seconds
LR changed during epoch: 4.03e-04 -> 3.95e-04
total runtime to train this model was 27.1020724773407 seconds
Hyperparameteres for model 2 at epoch 47
lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9612510204315186 seconds

Loss: 0.5016

Train Accuracy: 81.97%

Test Accuracy: 76.73%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.7347736358642578 seconds
LR changed during epoch: 1.76e-04 -> 1.63e-04
total runtime to train this model was 26.97678256034851 seconds
Hyperparameteres for model 3 at epoch 47
lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.6272387504577637 seconds

Loss: 0.3979

Train Accuracy: 85.79%

Test Accuracy: 77.45%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.5884087085723877 seconds

LR changed during epoch: 3.78e-04 -> 3.73e-04

total runtime to train this model was 27.617919206619263 seconds

Hyperparameteres for model 4 at epoch 47

lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4344868659973145 seconds

Loss: 0.4161

Train Accuracy: 85.04%

Test Accuracy: 76.95%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 47 Summary:

=====
Time: 158.32s (Avg member: 31.66s)

Population Mean Accuracy: 77.46%

Best Member Accuracy: 78.71%

Mean Batch Size: 256

Mean Learning Rate: 6.19e-04

Mean Weight Decay: 0.079
=====

Epoch 48/70
=====

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

built data in 1.6131160259246826 seconds

LR changed during epoch: 3.30e-04 -> 4.95e-04

total runtime to train this model was 27.115147829055786 seconds

Hyperparameteres for model 0 at epoch 48

lr: 0.0008236220515686955

weight_decay: 0.14376323050752654

drop_path: 0.03566181033783931

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.438689947128296 seconds

Loss: 0.4320
Train Accuracy: 84.57%
Test Accuracy: 77.29%
Google Drive already mounted.
Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.71437406539917 seconds
LR changed during epoch: 2.27e-04 -> 2.09e-04
total runtime to train this model was 27.170074939727783 seconds
Hyperparameteres for model 1 at epoch 48
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.3185794353485107 seconds

Loss: 0.3831
Train Accuracy: 86.45%
Test Accuracy: 78.44%
Google Drive already mounted.
Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6154940128326416 seconds
LR changed during epoch: 3.95e-04 -> 3.87e-04
total runtime to train this model was 27.07691717147827 seconds
Hyperparameteres for model 2 at epoch 48
lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.489406108856201 seconds

Loss: 0.4872
Train Accuracy: 82.75%
Test Accuracy: 76.78%
Google Drive already mounted.
Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6292109489440918 seconds
LR changed during epoch: 1.63e-04 -> 1.51e-04
total runtime to train this model was 27.114115953445435 seconds
Hyperparameteres for model 3 at epoch 48
lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4912116527557373 seconds

Loss: 0.3845

Train Accuracy: 86.19%

Test Accuracy: 76.77%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.6346054077148438 seconds

LR changed during epoch: 3.73e-04 -> 3.67e-04

total runtime to train this model was 27.146989583969116 seconds

Hyperparameteres for model 4 at epoch 48

lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.3778486251831055 seconds

Loss: 0.3965

Train Accuracy: 85.86%

Test Accuracy: 76.39%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 48 Summary:

=====
Time: 159.18s (Avg member: 31.84s)

Population Mean Accuracy: 77.13%

Best Member Accuracy: 78.44%

Mean Batch Size: 256

Mean Learning Rate: 6.19e-04

Mean Weight Decay: 0.079

=====
Epoch 49/70

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

built data in 1.6789734363555908 seconds

LR changed during epoch: 4.95e-04 -> 6.60e-04

total runtime to train this model was 27.43859553337097 seconds

Hyperparameteres for model 0 at epoch 49

lr: 0.0008236220515686955

weight_decay: 0.14376323050752654

drop_path: 0.03566181033783931

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4952573776245117 seconds
Loss: 0.4841

Train Accuracy: 82.68%

Test Accuracy: 75.46%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.632185459136963 seconds
LR changed during epoch: 2.09e-04 -> 1.92e-04
total runtime to train this model was 27.40803813934326 seconds
Hyperparameteres for model 1 at epoch 49
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5149097442626953 seconds
Loss: 0.3723

Train Accuracy: 86.78%

Test Accuracy: 78.59%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.5875904560089111 seconds
LR changed during epoch: 3.87e-04 -> 3.78e-04
total runtime to train this model was 27.89241337776184 seconds
Hyperparameteres for model 2 at epoch 49
lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.1383652687072754 seconds
Loss: 0.4783

Train Accuracy: 82.86%

Test Accuracy: 77.41%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.8085932731628418 seconds
LR changed during epoch: 1.51e-04 -> 1.38e-04
total runtime to train this model was 27.51996350288391 seconds
Hyperparameteres for model 3 at epoch 49

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5302116870880127 seconds

Loss: 0.3654

Train Accuracy: 87.03%

Test Accuracy: 77.50%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.5710909366607666 seconds

LR changed during epoch: 3.67e-04 -> 3.61e-04

total runtime to train this model was 27.046756505966187 seconds

Hyperparameteres for model 4 at epoch 49

lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5323984622955322 seconds

Loss: 0.3828

Train Accuracy: 86.28%

Test Accuracy: 76.16%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 49 Summary:

=====
Time: 160.06s (Avg member: 32.01s)

Population Mean Accuracy: 77.02%

Best Member Accuracy: 78.59%

Mean Batch Size: 256

Mean Learning Rate: 6.19e-04

Mean Weight Decay: 0.079

=====
Epoch 50/70

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

built data in 1.6270411014556885 seconds

LR changed during epoch: 6.60e-04 -> 8.24e-04

total runtime to train this model was 27.38369131088257 seconds

Hyperparameteres for model 0 at epoch 50

lr: 0.0008236220515686955

weight_decay: 0.14376323050752654

drop_path: 0.03566181033783931

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5896518230438232 seconds

Loss: 0.5280

Train Accuracy: 81.16%

Test Accuracy: 74.74%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.8092188835144043 seconds

LR changed during epoch: 1.92e-04 -> 1.76e-04

total runtime to train this model was 28.733774423599243 seconds

Hyperparameteres for model 1 at epoch 50

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9614453315734863 seconds

Loss: 0.3559

Train Accuracy: 87.25%

Test Accuracy: 78.38%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.6591527462005615 seconds

LR changed during epoch: 3.78e-04 -> 3.69e-04

total runtime to train this model was 28.0012686252594 seconds

Hyperparameteres for model 2 at epoch 50

lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.6053364276885986 seconds

Loss: 0.4682

Train Accuracy: 83.19%

Test Accuracy: 77.36%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.5706899166107178 seconds
LR changed during epoch: 1.38e-04 -> 1.27e-04
total runtime to train this model was 27.663275718688965 seconds
Hyperparameteres for model 3 at epoch 50
lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.7287228107452393 seconds

Loss: 0.3484

Train Accuracy: 87.69%

Test Accuracy: 77.36%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.7732279300689697 seconds
LR changed during epoch: 3.61e-04 -> 3.55e-04
total runtime to train this model was 27.08039402961731 seconds
Hyperparameteres for model 4 at epoch 50
lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.19400954246521 seconds

Loss: 0.3724

Train Accuracy: 86.48%

Test Accuracy: 76.25%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

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

=== PBT Exploit & Explore ===

Top performers: [78.38]

Bottom performers: [74.74]

Member 0: lr changed from 0.0008236220515686955 to 0.0010000000000000002

Member 0: weight_decay changed from 0.14376323050752654 to 0.1371285373278264

Member 0: drop_path changed from 0.03566181033783931 to 0.020544764443548295

Member 0 copied from 1

LR=1.00e-03, WD=0.137, DropPath=0.021, Warmup=5 epochs, Batch=256

=====
Epoch 50 Summary:

=====
Time: 162.63s (Avg member: 32.52s)

Population Mean Accuracy: 76.82%

Best Member Accuracy: 78.38%
Mean Batch Size: 256
Mean Learning Rate: 6.54e-04
Mean Weight Decay: 0.078

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.5959863662719727 seconds
LR changed during epoch: 1.02e-06 -> 2.01e-04
total runtime to train this model was 27.533108711242676 seconds
Hyperparameteres for model 0 at epoch 51
lr: 0.0010000000000000002

weight_decay: 0.1371285373278264

drop_path: 0.020544764443548295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4400012493133545 seconds
Loss: 0.3013

Train Accuracy: 89.17%

Test Accuracy: 78.33%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6814606189727783 seconds
LR changed during epoch: 1.76e-04 -> 1.60e-04
total runtime to train this model was 27.448786735534668 seconds
Hyperparameteres for model 1 at epoch 51
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5013670921325684 seconds
Loss: 0.3437

Train Accuracy: 87.73%

Test Accuracy: 78.58%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6592919826507568 seconds
LR changed during epoch: 3.69e-04 -> 3.59e-04
total runtime to train this model was 26.919899702072144 seconds
Hyperparameteres for model 2 at epoch 51
lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.8666086196899414 seconds

Loss: 0.4518

Train Accuracy: 83.61%

Test Accuracy: 77.35%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.638415813446045 seconds

LR changed during epoch: 1.27e-04 -> 1.15e-04

total runtime to train this model was 27.342639446258545 seconds

Hyperparameteres for model 3 at epoch 51

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.514878273010254 seconds

Loss: 0.3349

Train Accuracy: 87.95%

Test Accuracy: 77.55%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.5771420001983643 seconds

LR changed during epoch: 3.55e-04 -> 3.48e-04

total runtime to train this model was 27.03151226043701 seconds

Hyperparameteres for model 4 at epoch 51

lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4560999870300293 seconds

Loss: 0.3611

Train Accuracy: 87.15%

Test Accuracy: 76.43%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 51 Summary:
=====

Time: 159.44s (Avg member: 31.89s)
Population Mean Accuracy: 77.65%
Best Member Accuracy: 78.58%
Mean Batch Size: 256
Mean Learning Rate: 6.54e-04
Mean Weight Decay: 0.078

=====
Epoch 52/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.601926565170288 seconds
LR changed during epoch: 2.01e-04 -> 4.01e-04
total runtime to train this model was 27.184990882873535 seconds
Hyperparameteres for model 0 at epoch 52
lr: 0.00100000000000000002

weight_decay: 0.1371285373278264

drop_path: 0.020544764443548295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.739562749862671 seconds

Loss: 0.3513

Train Accuracy: 87.34%

Test Accuracy: 77.45%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.7318413257598877 seconds
LR changed during epoch: 1.60e-04 -> 1.45e-04
total runtime to train this model was 27.111318826675415 seconds
Hyperparameteres for model 1 at epoch 52
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.105858087539673 seconds

Loss: 0.3267

Train Accuracy: 88.37%

Test Accuracy: 78.81%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6335690021514893 seconds

LR changed during epoch: 3.59e-04 -> 3.49e-04
total runtime to train this model was 27.26439332962036 seconds
Hyperparameteres for model 2 at epoch 52
lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4546520709991455 seconds

Loss: 0.4354

Train Accuracy: 84.46%

Test Accuracy: 78.40%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.5647907257080078 seconds

LR changed during epoch: 1.15e-04 -> 1.04e-04

total runtime to train this model was 27.338951349258423 seconds

Hyperparameteres for model 3 at epoch 52

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.447582960128784 seconds

Loss: 0.3198

Train Accuracy: 88.62%

Test Accuracy: 77.78%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.6529126167297363 seconds

LR changed during epoch: 3.48e-04 -> 3.41e-04

total runtime to train this model was 27.0837299823761 seconds

Hyperparameteres for model 4 at epoch 52

lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.4726572036743164 seconds

Loss: 0.3450

Train Accuracy: 87.62%

Test Accuracy: 77.04%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 52 Summary:
=====

Time: 159.70s (Avg member: 31.94s)

Population Mean Accuracy: 77.90%

Best Member Accuracy: 78.81%

Mean Batch Size: 256

Mean Learning Rate: 6.54e-04

Mean Weight Decay: 0.078

=====

Epoch 53/70
=====

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

built data in 1.6290028095245361 seconds

LR changed during epoch: 4.01e-04 -> 6.01e-04

total runtime to train this model was 27.33075451850891 seconds

Hyperparameteres for model 0 at epoch 53

lr: 0.0010000000000000002

weight_decay: 0.1371285373278264

drop_path: 0.020544764443548295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4884212017059326 seconds

Loss: 0.4220

Train Accuracy: 84.77%

Test Accuracy: 77.12%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.6218974590301514 seconds

LR changed during epoch: 1.45e-04 -> 1.30e-04

total runtime to train this model was 27.205893516540527 seconds

Hyperparameteres for model 1 at epoch 53

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.471869945526123 seconds

Loss: 0.3096

Train Accuracy: 88.95%

Test Accuracy: 78.77%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6437232494354248 seconds
LR changed during epoch: 3.49e-04 -> 3.39e-04
total runtime to train this model was 27.187283515930176 seconds
Hyperparameteres for model 2 at epoch 53
lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.6409056186676025 seconds
Loss: 0.4269
Train Accuracy: 84.81%
Test Accuracy: 77.16%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.8188674449920654 seconds
LR changed during epoch: 1.04e-04 -> 9.38e-05
total runtime to train this model was 27.210131645202637 seconds
Hyperparameteres for model 3 at epoch 53
lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.117887496948242 seconds
Loss: 0.3086
Train Accuracy: 88.94%
Test Accuracy: 77.83%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.6165130138397217 seconds
LR changed during epoch: 3.41e-04 -> 3.34e-04
total runtime to train this model was 27.415743827819824 seconds
Hyperparameteres for model 4 at epoch 53
lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4524338245391846 seconds

Loss: 0.3319

Train Accuracy: 88.06%

Test Accuracy: 76.81%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 53 Summary:
=====

Time: 159.16s (Avg member: 31.83s)

Population Mean Accuracy: 77.54%

Best Member Accuracy: 78.77%

Mean Batch Size: 256

Mean Learning Rate: 6.54e-04

Mean Weight Decay: 0.078

=====
Epoch 54/70
=====

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

built data in 1.6039626598358154 seconds

LR changed during epoch: 6.01e-04 -> 8.01e-04

total runtime to train this model was 27.0730082988739 seconds

Hyperparameteres for model 0 at epoch 54

lr: 0.00100000000000000002

weight_decay: 0.1371285373278264

drop_path: 0.020544764443548295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.576997756958008 seconds

Loss: 0.4931

Train Accuracy: 82.44%

Test Accuracy: 75.43%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.6608507633209229 seconds

LR changed during epoch: 1.30e-04 -> 1.16e-04

total runtime to train this model was 27.084540605545044 seconds

Hyperparameteres for model 1 at epoch 54

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.7275826930999756 seconds

Loss: 0.3004

Train Accuracy: 89.22%

Test Accuracy: 79.02%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.6039936542510986 seconds

LR changed during epoch: 3.39e-04 -> 3.29e-04

total runtime to train this model was 26.93233561515808 seconds

Hyperparameteres for model 2 at epoch 54

lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4501428604125977 seconds

Loss: 0.4130

Train Accuracy: 85.14%

Test Accuracy: 78.23%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.5978643894195557 seconds

LR changed during epoch: 9.38e-05 -> 8.38e-05

total runtime to train this model was 27.168530702590942 seconds

Hyperparameteres for model 3 at epoch 54

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.454130172729492 seconds

Loss: 0.2913

Train Accuracy: 89.63%

Test Accuracy: 78.16%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.6199486255645752 seconds

LR changed during epoch: 3.34e-04 -> 3.26e-04

total runtime to train this model was 27.223352432250977 seconds

Hyperparameteres for model 4 at epoch 54

lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5949816703796387 seconds

Loss: 0.3109

Train Accuracy: 88.83%

Test Accuracy: 76.91%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 54 Summary:
=====

Time: 158.59s (Avg member: 31.72s)

Population Mean Accuracy: 77.55%

Best Member Accuracy: 79.02%

Mean Batch Size: 256

Mean Learning Rate: 6.54e-04

Mean Weight Decay: 0.078

=====

Epoch 55/70
=====

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

built data in 1.9774830341339111 seconds

LR changed during epoch: 8.01e-04 -> 1.00e-03

total runtime to train this model was 26.82048773765564 seconds

Hyperparameteres for model 0 at epoch 55

lr: 0.0010000000000000002

weight_decay: 0.1371285373278264

drop_path: 0.020544764443548295

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.0239322185516357 seconds

Loss: 0.5520

Train Accuracy: 80.08%

Test Accuracy: 75.04%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.630293607711792 seconds

LR changed during epoch: 1.16e-04 -> 1.03e-04

total runtime to train this model was 27.118269443511963 seconds

Hyperparameteres for model 1 at epoch 55

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4897732734680176 seconds

Loss: 0.2929

Train Accuracy: 89.63%

Test Accuracy: 79.12%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.6738522052764893 seconds

LR changed during epoch: 3.29e-04 -> 3.18e-04

total runtime to train this model was 27.135504245758057 seconds

Hyperparameteres for model 2 at epoch 55

lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4805409908294678 seconds

Loss: 0.3996

Train Accuracy: 85.51%

Test Accuracy: 77.92%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.6687042713165283 seconds

LR changed during epoch: 8.38e-05 -> 7.42e-05

total runtime to train this model was 26.911441802978516 seconds

Hyperparameteres for model 3 at epoch 55

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.5258641242980957 seconds

Loss: 0.2829

Train Accuracy: 89.87%

Test Accuracy: 78.46%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.5720913410186768 seconds

LR changed during epoch: 3.26e-04 -> 3.18e-04

total runtime to train this model was 27.517569541931152 seconds

Hyperparameteres for model 4 at epoch 55

lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.499199628829956 seconds

Loss: 0.3000

Train Accuracy: 89.26%

Test Accuracy: 76.97%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

--- Population Update (Epoch 55) ---

=== PBT Exploit & Explore ===

Top performers: [79.12]

Bottom performers: [75.04]

Member 0: weight_decay changed from 0.1371285373278264 to 0.15

Member 0: drop_path changed from 0.020544764443548295 to 0.013838386051600385

Member 0 copied from 1

LR=1.00e-03, WD=0.150, DropPath=0.014, Warmup=5 epochs, Batch=256

=====
Epoch 55 Summary:

Time: 159.32s (Avg member: 31.86s)

Population Mean Accuracy: 77.50%

Best Member Accuracy: 79.12%

Mean Batch Size: 256

Mean Learning Rate: 6.54e-04

Mean Weight Decay: 0.080

=====
Epoch 56/70

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

built data in 1.6100513935089111 seconds

LR changed during epoch: 1.02e-06 -> 2.01e-04

total runtime to train this model was 27.343130826950073 seconds

Hyperparameteres for model 0 at epoch 56

lr: 0.0010000000000000002

weight_decay: 0.15

drop_path: 0.013838386051600385

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.583671808242798 seconds

Loss: 0.2528

Train Accuracy: 91.08%

Test Accuracy: 78.67%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.5737214088439941 seconds

LR changed during epoch: 1.03e-04 -> 9.03e-05

total runtime to train this model was 27.396987676620483 seconds

Hyperparameteres for model 1 at epoch 56

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.0804781913757324 seconds

Loss: 0.2845

Train Accuracy: 89.88%

Test Accuracy: 79.17%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.7762131690979004 seconds

LR changed during epoch: 3.18e-04 -> 3.08e-04

total runtime to train this model was 26.88456153869629 seconds

Hyperparameteres for model 2 at epoch 56

lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.959728240966797 seconds

Loss: 0.3943

Train Accuracy: 85.97%

Test Accuracy: 78.59%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.6441729068756104 seconds

LR changed during epoch: 7.42e-05 -> 6.51e-05

total runtime to train this model was 27.51205062866211 seconds

Hyperparameteres for model 3 at epoch 56

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5038444995880127 seconds

Loss: 0.2690

Train Accuracy: 90.45%

Test Accuracy: 77.71%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.6020896434783936 seconds

LR changed during epoch: 3.18e-04 -> 3.10e-04

total runtime to train this model was 26.987300872802734 seconds

Hyperparameteres for model 4 at epoch 56

lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4418678283691406 seconds

Loss: 0.2856

Train Accuracy: 89.71%

Test Accuracy: 77.45%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 56 Summary:

=====
Time: 159.16s (Avg member: 31.83s)

Population Mean Accuracy: 78.32%

Best Member Accuracy: 79.17%

Mean Batch Size: 256

Mean Learning Rate: 6.54e-04

Mean Weight Decay: 0.080

=====
Epoch 57/70

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

built data in 1.7787275314331055 seconds

LR changed during epoch: 2.01e-04 -> 4.01e-04

total runtime to train this model was 26.500290632247925 seconds

Hyperparameteres for model 0 at epoch 57

lr: 0.00100000000000000002

weight_decay: 0.15

drop_path: 0.013838386051600385

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.53045654296875 seconds

Loss: 0.3239

Train Accuracy: 88.36%

Test Accuracy: 76.98%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.6083338260650635 seconds

LR changed during epoch: 9.03e-05 -> 7.84e-05

total runtime to train this model was 26.940497875213623 seconds

Hyperparameteres for model 1 at epoch 57

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4810397624969482 seconds

Loss: 0.2666

Train Accuracy: 90.53%

Test Accuracy: 79.24%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.5684328079223633 seconds

LR changed during epoch: 3.08e-04 -> 2.97e-04

total runtime to train this model was 27.04878568649292 seconds

Hyperparameteres for model 2 at epoch 57

lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.456494092941284 seconds

Loss: 0.3736

Train Accuracy: 86.46%

Test Accuracy: 78.40%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.673051357269287 seconds

LR changed during epoch: 6.51e-05 -> 5.66e-05

total runtime to train this model was 26.82813262939453 seconds

Hyperparameteres for model 3 at epoch 57

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4569036960601807 seconds

Loss: 0.2575

Train Accuracy: 90.78%

Test Accuracy: 78.19%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.7575185298919678 seconds

LR changed during epoch: 3.10e-04 -> 3.02e-04

total runtime to train this model was 27.41941237449646 seconds

Hyperparameteres for model 4 at epoch 57

lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.2131505012512207 seconds

Loss: 0.2746

Train Accuracy: 90.14%

Test Accuracy: 76.92%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 57 Summary:

=====
Time: 158.52s (Avg member: 31.70s)

Population Mean Accuracy: 77.95%

Best Member Accuracy: 79.24%

Mean Batch Size: 256

Mean Learning Rate: 6.54e-04

Mean Weight Decay: 0.080

=====
Epoch 58/70

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

built data in 1.666874885559082 seconds

LR changed during epoch: 4.01e-04 -> 6.01e-04

total runtime to train this model was 27.57940149307251 seconds

Hyperparameteres for model 0 at epoch 58

lr: 0.0010000000000000002

weight_decay: 0.15

drop_path: 0.013838386051600385

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5186355113983154 seconds

Loss: 0.3990

Train Accuracy: 85.65%

Test Accuracy: 76.01%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.615279197692871 seconds

LR changed during epoch: 7.84e-05 -> 6.72e-05

total runtime to train this model was 27.596556186676025 seconds

Hyperparameteres for model 1 at epoch 58

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4819095134735107 seconds

Loss: 0.2599

Train Accuracy: 90.74%

Test Accuracy: 79.30%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.8229148387908936 seconds

LR changed during epoch: 2.97e-04 -> 2.86e-04

total runtime to train this model was 27.117112398147583 seconds

Hyperparameteres for model 2 at epoch 58

lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.409165382385254 seconds

Loss: 0.3584

Train Accuracy: 87.34%

Test Accuracy: 78.60%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.6588215827941895 seconds
LR changed during epoch: 5.66e-05 -> 4.86e-05
total runtime to train this model was 27.51719570159912 seconds
Hyperparameteres for model 3 at epoch 58
lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.493788480758667 seconds

Loss: 0.2507

Train Accuracy: 91.12%

Test Accuracy: 78.32%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.6573295593261719 seconds

LR changed during epoch: 3.02e-04 -> 2.93e-04

total runtime to train this model was 26.696741342544556 seconds

Hyperparameteres for model 4 at epoch 58

lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5252885818481445 seconds

Loss: 0.2599

Train Accuracy: 90.61%

Test Accuracy: 77.12%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 58 Summary:

=====
Time: 159.56s (Avg member: 31.91s)

Population Mean Accuracy: 77.87%

Best Member Accuracy: 79.30%

Mean Batch Size: 256

Mean Learning Rate: 6.54e-04

Mean Weight Decay: 0.080

=====
Epoch 59/70

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

built data in 1.6186208724975586 seconds

LR changed during epoch: 6.01e-04 -> 8.01e-04

total runtime to train this model was 26.943761825561523 seconds

Hyperparameteres for model 0 at epoch 59

lr: 0.0010000000000000002

weight_decay: 0.15

drop_path: 0.013838386051600385

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.4076480865478516 seconds

Loss: 0.4679

Train Accuracy: 83.17%

Test Accuracy: 75.13%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.7138252258300781 seconds

LR changed during epoch: 6.72e-05 -> 5.69e-05

total runtime to train this model was 26.98272442817688 seconds

Hyperparameteres for model 1 at epoch 59

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.568505048751831 seconds

Loss: 0.2531

Train Accuracy: 91.02%

Test Accuracy: 79.34%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.5523624420166016 seconds

LR changed during epoch: 2.86e-04 -> 2.75e-04

total runtime to train this model was 27.3903386592865 seconds

Hyperparameteres for model 2 at epoch 59

lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.489473819732666 seconds

Loss: 0.3486

Train Accuracy: 87.48%

Test Accuracy: 78.68%
Google Drive already mounted.
Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6525366306304932 seconds
LR changed during epoch: 4.86e-05 -> 4.12e-05
total runtime to train this model was 27.295709371566772 seconds
Hyperparameteres for model 3 at epoch 59
lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4545328617095947 seconds
Loss: 0.2397
Train Accuracy: 91.59%
Test Accuracy: 78.30%

Google Drive already mounted.
Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.6931407451629639 seconds
LR changed during epoch: 2.93e-04 -> 2.84e-04
total runtime to train this model was 27.18596839904785 seconds
Hyperparameteres for model 4 at epoch 59
lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.3463618755340576 seconds
Loss: 0.2426
Train Accuracy: 91.22%
Test Accuracy: 77.24%

Google Drive already mounted.
Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 59 Summary:

=====
Time: 159.53s (Avg member: 31.91s)
Population Mean Accuracy: 77.74%
Best Member Accuracy: 79.34%
Mean Batch Size: 256
Mean Learning Rate: 6.54e-04
Mean Weight Decay: 0.080

=====
Epoch 60/70

=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.7004098892211914 seconds
LR changed during epoch: 8.01e-04 -> 1.00e-03
total runtime to train this model was 27.020085334777832 seconds
Hyperparameteres for model 0 at epoch 60
lr: 0.00100000000000000002

weight_decay: 0.15

drop_path: 0.013838386051600385

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.445868968963623 seconds

Loss: 0.5275

Train Accuracy: 81.15%

Test Accuracy: 75.02%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.5486831665039062 seconds
LR changed during epoch: 5.69e-05 -> 4.74e-05
total runtime to train this model was 27.218782901763916 seconds
Hyperparameteres for model 1 at epoch 60
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.48097562789917 seconds

Loss: 0.2431

Train Accuracy: 91.28%

Test Accuracy: 79.36%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6784400939941406 seconds
LR changed during epoch: 2.75e-04 -> 2.64e-04
total runtime to train this model was 26.821542978286743 seconds
Hyperparameteres for model 2 at epoch 60
lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.0744903087615967 seconds

Loss: 0.3366

Train Accuracy: 88.02%

Test Accuracy: 78.31%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.6955878734588623 seconds

LR changed during epoch: 4.12e-05 -> 3.43e-05

total runtime to train this model was 27.210849046707153 seconds

Hyperparameteres for model 3 at epoch 60

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.431130886077881 seconds

Loss: 0.2277

Train Accuracy: 91.98%

Test Accuracy: 78.31%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.6618001461029053 seconds

LR changed during epoch: 2.84e-04 -> 2.75e-04

total runtime to train this model was 27.02775740623474 seconds

Hyperparameteres for model 4 at epoch 60

lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.432849645614624 seconds

Loss: 0.2359

Train Accuracy: 91.66%

Test Accuracy: 77.29%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

--- Population Update (Epoch 60) ---

=== PBT Exploit & Explore ===

Top performers: [79.36]

Bottom performers: [75.02]

Member 0: drop_path changed from 0.013838386051600385 to 0.035200198616847034

Member 0 copied from 1

LR=1.00e-03, WD=0.150, DropPath=0.035, Warmup=5 epochs, Batch=256

=====
Epoch 60 Summary:
=====

Time: 157.68s (Avg member: 31.53s)
Population Mean Accuracy: 77.66%
Best Member Accuracy: 79.36%
Mean Batch Size: 256
Mean Learning Rate: 6.54e-04
Mean Weight Decay: 0.080

=====
Epoch 61/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.572352409362793 seconds
LR changed during epoch: 1.02e-06 -> 2.01e-04
total runtime to train this model was 27.21329092979431 seconds
Hyperparameteres for model 0 at epoch 61
lr: 0.0010000000000000002

weight_decay: 0.15

drop_path: 0.035200198616847034

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.377577543258667 seconds

Loss: 0.2253

Train Accuracy: 91.95%

Test Accuracy: 78.69%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.7932806015014648 seconds
LR changed during epoch: 4.74e-05 -> 3.87e-05
total runtime to train this model was 26.461801052093506 seconds
Hyperparameteres for model 1 at epoch 61
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.637204170227051 seconds

Loss: 0.2353

Train Accuracy: 91.48%

Test Accuracy: 79.44%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.5868582725524902 seconds
LR changed during epoch: 2.64e-04 -> 2.52e-04
total runtime to train this model was 26.847035884857178 seconds
Hyperparameteres for model 2 at epoch 61
lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4212021827697754 seconds

Loss: 0.3220

Train Accuracy: 88.45%

Test Accuracy: 78.37%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6505858898162842 seconds
LR changed during epoch: 3.43e-05 -> 2.81e-05
total runtime to train this model was 27.044898986816406 seconds
Hyperparameteres for model 3 at epoch 61
lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4013302326202393 seconds

Loss: 0.2224

Train Accuracy: 92.17%

Test Accuracy: 78.52%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.5691957473754883 seconds
LR changed during epoch: 2.75e-04 -> 2.66e-04
total runtime to train this model was 27.114981174468994 seconds
Hyperparameteres for model 4 at epoch 61
lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.332963466644287 seconds

Loss: 0.2209

Train Accuracy: 92.15%

Test Accuracy: 76.67%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 61 Summary:
=====

Time: 158.27s (Avg member: 31.65s)

Population Mean Accuracy: 78.34%

Best Member Accuracy: 79.44%

Mean Batch Size: 256

Mean Learning Rate: 6.54e-04

Mean Weight Decay: 0.080

=====
Epoch 62/70
=====

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

built data in 1.7529122829437256 seconds

LR changed during epoch: 2.01e-04 -> 4.01e-04

total runtime to train this model was 26.921783208847046 seconds

Hyperparameteres for model 0 at epoch 62

lr: 0.0010000000000000002

weight_decay: 0.15

drop_path: 0.035200198616847034

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.477032423019409 seconds

Loss: 0.3028

Train Accuracy: 89.18%

Test Accuracy: 77.61%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.5595686435699463 seconds

LR changed during epoch: 3.87e-05 -> 3.09e-05

total runtime to train this model was 27.02243208885193 seconds

Hyperparameteres for model 1 at epoch 62

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4972259998321533 seconds

Loss: 0.2266

Train Accuracy: 91.97%

Test Accuracy: 79.58%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.6859543323516846 seconds

LR changed during epoch: 2.52e-04 -> 2.41e-04

total runtime to train this model was 27.20440697669983 seconds

Hyperparameteres for model 2 at epoch 62

lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.426490068435669 seconds

Loss: 0.3053

Train Accuracy: 89.03%

Test Accuracy: 78.80%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.6633718013763428 seconds

LR changed during epoch: 2.81e-05 -> 2.25e-05

total runtime to train this model was 27.129011631011963 seconds

Hyperparameteres for model 3 at epoch 62

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.4986507892608643 seconds

Loss: 0.2130

Train Accuracy: 92.29%

Test Accuracy: 78.61%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.7046637535095215 seconds

LR changed during epoch: 2.66e-04 -> 2.57e-04

total runtime to train this model was 26.67910075187683 seconds

Hyperparameteres for model 4 at epoch 62

lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.455923557281494 seconds

Loss: 0.2089

Train Accuracy: 92.43%

Test Accuracy: 76.60%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 62 Summary:
=====

Time: 157.88s (Avg member: 31.58s)

Population Mean Accuracy: 78.24%

Best Member Accuracy: 79.58%

Mean Batch Size: 256

Mean Learning Rate: 6.54e-04

Mean Weight Decay: 0.080

=====
Epoch 63/70
=====

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

built data in 1.5665655136108398 seconds

LR changed during epoch: 4.01e-04 -> 6.01e-04

total runtime to train this model was 27.02950406074524 seconds

Hyperparameteres for model 0 at epoch 63

lr: 0.0010000000000000002

weight_decay: 0.15

drop_path: 0.035200198616847034

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4745471477508545 seconds

Loss: 0.3822

Train Accuracy: 86.25%

Test Accuracy: 75.82%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.6656734943389893 seconds

LR changed during epoch: 3.09e-05 -> 2.39e-05

total runtime to train this model was 26.739758253097534 seconds

Hyperparameteres for model 1 at epoch 63

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.577702045440674 seconds

Loss: 0.2253

Train Accuracy: 92.11%

Test Accuracy: 79.34%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.7073540687561035 seconds

LR changed during epoch: 2.41e-04 -> 2.30e-04

total runtime to train this model was 26.61384892463684 seconds

Hyperparameteres for model 2 at epoch 63

lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.200620412826538 seconds

Loss: 0.3009

Train Accuracy: 89.30%

Test Accuracy: 78.53%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.6735477447509766 seconds

LR changed during epoch: 2.25e-05 -> 1.75e-05

total runtime to train this model was 26.755712747573853 seconds

Hyperparameteres for model 3 at epoch 63

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4521427154541016 seconds

Loss: 0.2097

Train Accuracy: 92.55%

Test Accuracy: 78.50%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.566131830215454 seconds

LR changed during epoch: 2.57e-04 -> 2.47e-04

total runtime to train this model was 26.63818669319153 seconds

Hyperparameteres for model 4 at epoch 63

lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5594258308410645 seconds

Loss: 0.2000

Train Accuracy: 92.86%

Test Accuracy: 76.81%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 63 Summary:
=====

Time: 156.49s (Avg member: 31.30s)

Population Mean Accuracy: 77.80%

Best Member Accuracy: 79.34%

Mean Batch Size: 256

Mean Learning Rate: 6.54e-04

Mean Weight Decay: 0.080

=====
Epoch 64/70
=====

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

built data in 1.6602075099945068 seconds

LR changed during epoch: 6.01e-04 -> 8.01e-04

total runtime to train this model was 26.872604370117188 seconds

Hyperparameteres for model 0 at epoch 64

lr: 0.0010000000000000002

weight_decay: 0.15

drop_path: 0.035200198616847034

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.840959310531616 seconds

Loss: 0.4605

Train Accuracy: 83.57%

Test Accuracy: 75.28%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.7353825569152832 seconds

LR changed during epoch: 2.39e-05 -> 1.79e-05

total runtime to train this model was 26.699525356292725 seconds

Hyperparameteres for model 1 at epoch 64

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9869956970214844 seconds

Loss: 0.2229

Train Accuracy: 92.17%

Test Accuracy: 79.27%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.6387670040130615 seconds

LR changed during epoch: 2.30e-04 -> 2.18e-04

total runtime to train this model was 27.029602527618408 seconds

Hyperparameteres for model 2 at epoch 64

lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5380053520202637 seconds

Loss: 0.2859

Train Accuracy: 89.80%

Test Accuracy: 78.62%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.5496411323547363 seconds

LR changed during epoch: 1.75e-05 -> 1.31e-05

total runtime to train this model was 27.05021047592163 seconds

Hyperparameteres for model 3 at epoch 64

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5767717361450195 seconds

Loss: 0.2049

Train Accuracy: 92.80%

Test Accuracy: 78.32%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.7957568168640137 seconds
LR changed during epoch: 2.47e-04 -> 2.37e-04
total runtime to train this model was 26.61016058921814 seconds
Hyperparameteres for model 4 at epoch 64
lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.4696052074432373 seconds

Loss: 0.1877

Train Accuracy: 93.43%

Test Accuracy: 77.21%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 64 Summary:

=====
Time: 158.35s (Avg member: 31.67s)

Population Mean Accuracy: 77.74%

Best Member Accuracy: 79.27%

Mean Batch Size: 256

Mean Learning Rate: 6.54e-04

Mean Weight Decay: 0.080

=====
Epoch 65/70

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

built data in 1.6738386154174805 seconds

LR changed during epoch: 8.01e-04 -> 1.00e-03

total runtime to train this model was 27.4832820892334 seconds

Hyperparameteres for model 0 at epoch 65

lr: 0.00100000000000000002

weight_decay: 0.15

drop_path: 0.035200198616847034

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4941177368164062 seconds

Loss: 0.5247

Train Accuracy: 81.05%

Test Accuracy: 74.06%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.6507620811462402 seconds

LR changed during epoch: 1.79e-05 -> 1.28e-05

total runtime to train this model was 27.17183017730713 seconds

Hyperparameteres for model 1 at epoch 65

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.495757818222046 seconds

Loss: 0.2168

Train Accuracy: 92.22%

Test Accuracy: 79.53%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.6241278648376465 seconds

LR changed during epoch: 2.18e-04 -> 2.07e-04

total runtime to train this model was 27.69656991958618 seconds

Hyperparameteres for model 2 at epoch 65

lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.7395987510681152 seconds

Loss: 0.2749

Train Accuracy: 90.07%

Test Accuracy: 78.67%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.8354034423828125 seconds

LR changed during epoch: 1.31e-05 -> 9.44e-06

total runtime to train this model was 26.957952976226807 seconds

Hyperparameteres for model 3 at epoch 65

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9443180561065674 seconds

Loss: 0.2012

Train Accuracy: 92.84%

Test Accuracy: 78.36%
Google Drive already mounted.
Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.632338285446167 seconds
LR changed during epoch: 2.37e-04 -> 2.28e-04
total runtime to train this model was 27.274366855621338 seconds
Hyperparameteres for model 4 at epoch 65
lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5071589946746826 seconds
Loss: 0.1760

Train Accuracy: 93.77%

Test Accuracy: 77.45%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

--- Population Update (Epoch 65) ---

=== PBT Exploit & Explore ===

Top performers: [79.53]

Bottom performers: [74.06]

Member 0: lr changed from 0.0010000000000000002 to 0.0007014734000586536

Member 0: weight_decay changed from 0.15 to 0.12473030843194598

Member 0: drop_path changed from 0.035200198616847034 to 0.0685309988374442

Member 0 copied from 1

LR=7.01e-04, WD=0.125, DropPath=0.069, Warmup=5 epochs, Batch=256

=====
Epoch 65 Summary:

=====
Time: 159.48s (Avg member: 31.89s)

Population Mean Accuracy: 77.61%

Best Member Accuracy: 79.53%

Mean Batch Size: 256

Mean Learning Rate: 5.94e-04

Mean Weight Decay: 0.075

=====
Epoch 66/70

=====
--- Training Member 0 (Batch size: 256) ---
built data in 1.6465764045715332 seconds
LR changed during epoch: 7.16e-07 -> 1.41e-04
total runtime to train this model was 27.532206535339355 seconds
Hyperparameteres for model 0 at epoch 66
lr: 0.0007014734000586536

weight_decay: 0.12473030843194598

drop_path: 0.0685309988374442

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.442272186279297 seconds

Loss: 0.2024

Train Accuracy: 92.78%

Test Accuracy: 78.98%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.7459843158721924 seconds

LR changed during epoch: 1.28e-05 -> 8.53e-06

total runtime to train this model was 27.310035705566406 seconds

Hyperparameteres for model 1 at epoch 66

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.4174458980560303 seconds

Loss: 0.2195

Train Accuracy: 92.17%

Test Accuracy: 79.70%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.6582560539245605 seconds

LR changed during epoch: 2.07e-04 -> 1.96e-04

total runtime to train this model was 27.76296067237854 seconds

Hyperparameteres for model 2 at epoch 66

lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.532609224319458 seconds

Loss: 0.2650

Train Accuracy: 90.51%

Test Accuracy: 78.88%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.6031091213226318 seconds

LR changed during epoch: 9.44e-06 -> 6.41e-06

total runtime to train this model was 27.022154808044434 seconds

Hyperparameteres for model 3 at epoch 66

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.444729804992676 seconds

Loss: 0.1987

Train Accuracy: 92.96%

Test Accuracy: 78.35%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.64719820022583 seconds

LR changed during epoch: 2.28e-04 -> 2.18e-04

total runtime to train this model was 27.20831274986267 seconds

Hyperparameteres for model 4 at epoch 66

lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.6047205924987793 seconds

Loss: 0.1660

Train Accuracy: 94.13%

Test Accuracy: 77.09%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 66 Summary:

Time: 160.86s (Avg member: 32.17s)

Population Mean Accuracy: 78.60%

Best Member Accuracy: 79.70%

Mean Batch Size: 256

Mean Learning Rate: 5.94e-04

Mean Weight Decay: 0.075
=====

Epoch 67/70
=====

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

built data in 1.6628165245056152 seconds

LR changed during epoch: 1.41e-04 -> 2.81e-04

total runtime to train this model was 27.32648468017578 seconds

Hyperparameteres for model 0 at epoch 67

lr: 0.0007014734000586536

weight_decay: 0.12473030843194598

drop_path: 0.0685309988374442

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.485690116882324 seconds

Loss: 0.2578

Train Accuracy: 90.80%

Test Accuracy: 78.14%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

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

built data in 1.6372027397155762 seconds

LR changed during epoch: 8.53e-06 -> 5.24e-06

total runtime to train this model was 27.009433031082153 seconds

Hyperparameteres for model 1 at epoch 67

lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.423447370529175 seconds

Loss: 0.2096

Train Accuracy: 92.49%

Test Accuracy: 79.52%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

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

built data in 1.6014940738677979 seconds

LR changed during epoch: 1.96e-04 -> 1.85e-04

total runtime to train this model was 26.93956732749939 seconds

Hyperparameteres for model 2 at epoch 67

lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.489858627319336 seconds

Loss: 0.2485

Train Accuracy: 91.18%

Test Accuracy: 78.81%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.907217264175415 seconds
LR changed during epoch: 6.41e-06 -> 4.04e-06
total runtime to train this model was 26.91216778755188 seconds
Hyperparameteres for model 3 at epoch 67
lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.1202993392944336 seconds
Loss: 0.1940
Train Accuracy: 93.20%
Test Accuracy: 78.48%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.5773060321807861 seconds
LR changed during epoch: 2.18e-04 -> 2.08e-04
total runtime to train this model was 27.34154176712036 seconds
Hyperparameteres for model 4 at epoch 67
lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.424004077911377 seconds
Loss: 0.1576
Train Accuracy: 94.36%
Test Accuracy: 77.61%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 67 Summary:

=====
Time: 158.11s (Avg member: 31.62s)
Population Mean Accuracy: 78.51%
Best Member Accuracy: 79.52%
Mean Batch Size: 256
Mean Learning Rate: 5.94e-04
Mean Weight Decay: 0.075

=====
Epoch 68/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.685805320739746 seconds
LR changed during epoch: 2.81e-04 -> 4.22e-04
total runtime to train this model was 27.105875730514526 seconds
Hyperparameteres for model 0 at epoch 68
lr: 0.0007014734000586536

weight_decay: 0.12473030843194598

drop_path: 0.0685309988374442

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4620535373687744 seconds

Loss: 0.3158

Train Accuracy: 88.63%

Test Accuracy: 77.38%

Google Drive already mounted.

Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.615971326828003 seconds
LR changed during epoch: 5.24e-06 -> 2.88e-06
total runtime to train this model was 26.93149209022522 seconds
Hyperparameteres for model 1 at epoch 68
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.5885610580444336 seconds

Loss: 0.2144

Train Accuracy: 92.43%

Test Accuracy: 79.48%

Google Drive already mounted.

Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.6760756969451904 seconds
LR changed during epoch: 1.85e-04 -> 1.74e-04
total runtime to train this model was 27.662909030914307 seconds
Hyperparameteres for model 2 at epoch 68
lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4876675605773926 seconds

Loss: 0.2381

Train Accuracy: 91.53%

Test Accuracy: 79.60%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.6509404182434082 seconds

LR changed during epoch: 4.04e-06 -> 2.35e-06

total runtime to train this model was 27.103885650634766 seconds

Hyperparameteres for model 3 at epoch 68

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5162065029144287 seconds

Loss: 0.1886

Train Accuracy: 93.32%

Test Accuracy: 78.39%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.6246135234832764 seconds

LR changed during epoch: 2.08e-04 -> 1.98e-04

total runtime to train this model was 26.850671768188477 seconds

Hyperparameteres for model 4 at epoch 68

lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.7371268272399902 seconds

Loss: 0.1420

Train Accuracy: 95.03%

Test Accuracy: 77.65%

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Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 68 Summary:

=====
Time: 159.02s (Avg member: 31.80s)

Population Mean Accuracy: 78.50%

Best Member Accuracy: 79.60%

Mean Batch Size: 256

Mean Learning Rate: 5.94e-04

Mean Weight Decay: 0.075

=====
Epoch 69/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.780683994293213 seconds
LR changed during epoch: 4.22e-04 -> 5.62e-04
total runtime to train this model was 26.20844602584839 seconds
Hyperparameteres for model 0 at epoch 69
lr: 0.0007014734000586536

weight_decay: 0.12473030843194598

drop_path: 0.0685309988374442

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.2568798065185547 seconds

Loss: 0.3724

Train Accuracy: 86.50%

Test Accuracy: 76.14%

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Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6327078342437744 seconds
LR changed during epoch: 2.88e-06 -> 1.47e-06
total runtime to train this model was 26.927679777145386 seconds
Hyperparameteres for model 1 at epoch 69
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.405421495437622 seconds

Loss: 0.2101

Train Accuracy: 92.61%

Test Accuracy: 79.61%

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Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.5971965789794922 seconds
LR changed during epoch: 1.74e-04 -> 1.63e-04
total runtime to train this model was 27.221917390823364 seconds
Hyperparameteres for model 2 at epoch 69
lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.492466688156128 seconds

Loss: 0.2335

Train Accuracy: 91.69%

Test Accuracy: 79.37%

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Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.6682395935058594 seconds

LR changed during epoch: 2.35e-06 -> 1.34e-06

total runtime to train this model was 27.395376920700073 seconds

Hyperparameteres for model 3 at epoch 69

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.5947492122650146 seconds

Loss: 0.1906

Train Accuracy: 93.36%

Test Accuracy: 78.42%

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Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.611968755722046 seconds

LR changed during epoch: 1.98e-04 -> 1.89e-04

total runtime to train this model was 27.476344108581543 seconds

Hyperparameteres for model 4 at epoch 69

lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.471928834915161 seconds

Loss: 0.1338

Train Accuracy: 95.26%

Test Accuracy: 77.40%

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Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

=====
Epoch 69 Summary:

=====
Time: 158.96s (Avg member: 31.79s)

Population Mean Accuracy: 78.19%
Best Member Accuracy: 79.61%
Mean Batch Size: 256
Mean Learning Rate: 5.94e-04
Mean Weight Decay: 0.075

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.6779506206512451 seconds
LR changed during epoch: 5.62e-04 -> 7.01e-04
total runtime to train this model was 26.80803346633911 seconds
Hyperparameteres for model 0 at epoch 70
lr: 0.0007014734000586536

weight_decay: 0.12473030843194598

drop_path: 0.0685309988374442

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4596328735351562 seconds
Loss: 0.4226

Train Accuracy: 84.84%

Test Accuracy: 75.91%

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Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_217401.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.5820541381835938 seconds
LR changed during epoch: 1.47e-06 -> 1.00e-06
total runtime to train this model was 26.605138540267944 seconds
Hyperparameteres for model 1 at epoch 70
lr: 0.000811751662685378

weight_decay: 0.03687161935761017

drop_path: 0.1811380432809464

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.917020082473755 seconds
Loss: 0.2091

Train Accuracy: 92.65%

Test Accuracy: 79.57%

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Member 1: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_1_seed_217401.pt

--- Training Member 2 (Batch size: 256) ---
built data in 1.8336410522460938 seconds
LR changed during epoch: 1.63e-04 -> 1.52e-04
total runtime to train this model was 26.64570665359497 seconds
Hyperparameteres for model 2 at epoch 70
lr: 0.00046980901401525734

weight_decay: 0.09667856860397339

drop_path: 0.18032196419187985

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.6245460510253906 seconds

Loss: 0.2199

Train Accuracy: 92.13%

Test Accuracy: 79.42%

Google Drive already mounted.

Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_217401.pt

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

built data in 1.597137689590454 seconds

LR changed during epoch: 1.34e-06 -> 1.00e-06

total runtime to train this model was 27.290546417236328 seconds

Hyperparameteres for model 3 at epoch 70

lr: 0.0005832876162076942

weight_decay: 0.06881561531524874

drop_path: 0.03329510856734546

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5912067890167236 seconds

Loss: 0.1919

Train Accuracy: 93.18%

Test Accuracy: 78.50%

Google Drive already mounted.

Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_217401.pt

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

built data in 1.6059744358062744 seconds

LR changed during epoch: 1.89e-04 -> 1.79e-04

total runtime to train this model was 27.08226990699768 seconds

Hyperparameteres for model 4 at epoch 70

lr: 0.0004058603111642117

weight_decay: 0.04977525351286773

drop_path: 0.027005502982638718

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4541642665863037 seconds

Loss: 0.1277

Train Accuracy: 95.45%

Test Accuracy: 77.30%

Google Drive already mounted.

Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_217401.pt

--- Population Update (Epoch 70) ---

=== PBT Exploit & Explore ===

Top performers: [79.57]

Bottom performers: [75.91]

Member 0: lr changed from 0.0007014734000586536 to 0.0007488852210148119

Member 0: weight_decay changed from 0.12473030843194598 to 0.1291694225656309

Member 0: drop_path changed from 0.0685309988374442 to 0.07358146894631483

Member 0 copied from 1

LR=7.49e-04, WD=0.129, DropPath=0.074, Warmup=5 epochs, Batch=256

=====
Epoch 70 Summary:
=====

Time: 157.06s (Avg member: 31.41s)

Population Mean Accuracy: 78.14%

Best Member Accuracy: 79.57%

Mean Batch Size: 256

Mean Learning Rate: 6.04e-04

Mean Weight Decay: 0.076

=====
PBT TRAINING COMPLETE
=====

Best member: 1

Best accuracy: 79.57%

Best hyperparameters:

Learning Rate: 8.12e-04

Weight Decay: 0.037

Drop Path Rate: 0.181

Warmup Epochs: 5

Batch Size: 256

=====
PBT TIMING REPORT
=====

Overall Statistics	Value
Total runtime	11163.69s (186.06 min)
Number of epochs	70
Number of population updates	14

Epoch Timing	Value
Average epoch time	159.47s
Std epoch time	1.85s
Min epoch time	153.12s (epoch 19)
Max epoch time	163.44s (epoch 20)

Member Training Timing	Value
Average member time per epoch	31.89s
Total training time	11163.01s
Training efficiency	100.0%

Population Update Timing	Value
Average update time	0.01s
Total update time	0.18s

Update efficiency 0.0%

Batch Size Analysis	Avg Time	Samples
=====		
Batch size 256	31.89s	350

Per-Member Statistics	Avg Time	Total Time
=====		
Member 0	31.86s	2230.03s
Member 1	31.93s	2234.93s
Member 2	31.92s	2234.50s
Member 3	31.86s	2230.12s
Member 4	31.91s	2233.42s

=====

Experiment completed successfully!
Results saved to: pbt_vit_timing_results.png
Detailed timing saved to: pbt_detailed_timing.png