

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 3.5460891723632812 seconds

/tmp/ipython-input-228132033.py:694: FutureWarning: `torch.cuda.amp.autocast(args...)` is deprecated. Please use `torch.a

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

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

total runtime to train this model was 25.405422687530518 seconds

Hyperparameteres for model 0 at epoch 1

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.321899652481079 seconds

Loss: 2.0570

Train Accuracy: 23.71%

Test Accuracy: 29.23%

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

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

built data in 1.7238318920135498 seconds

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

total runtime to train this model was 25.75702691078186 seconds

Hyperparameteres for model 1 at epoch 1

lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.601759910583496 seconds

Loss: 2.0295

Train Accuracy: 24.16%

Test Accuracy: 26.76%

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

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

built data in 1.5835282802581787 seconds

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

total runtime to train this model was 26.294415950775146 seconds

Hyperparameteres for model 2 at epoch 1

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.370183229446411 seconds

Loss: 2.0034

Train Accuracy: 25.14%

Test Accuracy: 31.06%

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

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

built data in 1.628352165222168 seconds

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

total runtime to train this model was 27.5109441280365 seconds

Hyperparameteres for model 3 at epoch 1

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.49723744392395 seconds

Loss: 2.0200

Train Accuracy: 24.33%

Test Accuracy: 30.70%

Google Drive already mounted.

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

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

built data in 1.5791866779327393 seconds

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

total runtime to train this model was 26.478416919708252 seconds

Hyperparameteres for model 4 at epoch 1

lr: 0.0003565125943597626

weight_decay: 0.13274485841923567

drop_path: 0.10173156958188419

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.63997483253479 seconds

Loss: 2.0179

Train Accuracy: 24.67%

Test Accuracy: 30.89%

Google Drive already mounted.

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

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

Time: 157.42s (Avg member: 31.48s)

Population Mean Accuracy: 29.73%

Best Member Accuracy: 31.06%

Mean Batch Size: 256

Mean Learning Rate: 3.18e-04

Mean Weight Decay: 0.102
=====

Epoch 2/70
=====

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

built data in 1.7987675666809082 seconds

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

total runtime to train this model was 26.198620080947876 seconds

Hyperparameteres for model 0 at epoch 2

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.34421443939209 seconds

Loss: 1.8346

Train Accuracy: 31.91%

Test Accuracy: 32.81%

Google Drive already mounted.

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

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

built data in 1.578632116317749 seconds

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

total runtime to train this model was 26.857284784317017 seconds

Hyperparameteres for model 1 at epoch 2

lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.392772912979126 seconds

Loss: 1.8233

Train Accuracy: 32.16%

Test Accuracy: 34.39%

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

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

built data in 1.5696895122528076 seconds

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

total runtime to train this model was 26.443373203277588 seconds

Hyperparameteres for model 2 at epoch 2

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.328333854675293 seconds

Loss: 1.7813

Train Accuracy: 33.75%

Test Accuracy: 36.97%

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

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

built data in 1.6473164558410645 seconds

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

total runtime to train this model was 27.117501497268677 seconds

Hyperparameteres for model 3 at epoch 2

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.403663396835327 seconds

Loss: 1.7936

Train Accuracy: 33.27%

Test Accuracy: 35.38%

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

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

built data in 1.7430977821350098 seconds

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

total runtime to train this model was 26.333080768585205 seconds

Hyperparameteres for model 4 at epoch 2

lr: 0.0003565125943597626

weight_decay: 0.13274485841923567

drop_path: 0.10173156958188419

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.366640329360962 seconds

Loss: 1.7915

Train Accuracy: 32.92%

Test Accuracy: 34.58%

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

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

Time: 156.40s (Avg member: 31.28s)

Population Mean Accuracy: 34.83%

Best Member Accuracy: 36.97%

Mean Batch Size: 256

Mean Learning Rate: 3.18e-04

Mean Weight Decay: 0.102

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

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

built data in 1.7026135921478271 seconds

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

total runtime to train this model was 27.295818567276 seconds

Hyperparameteres for model 0 at epoch 3

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4299874305725098 seconds

Loss: 1.7182

Train Accuracy: 36.18%

Test Accuracy: 37.19%

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

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

built data in 1.5723297595977783 seconds

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

total runtime to train this model was 26.80718970298767 seconds

Hyperparameteres for model 1 at epoch 3

lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3265390396118164 seconds

Loss: 1.7006

Train Accuracy: 37.37%

Test Accuracy: 37.63%

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

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

built data in 1.6420097351074219 seconds

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

total runtime to train this model was 26.62809681892395 seconds

Hyperparameteres for model 2 at epoch 3

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.439288854598999 seconds

Loss: 1.6424

Train Accuracy: 39.53%

Test Accuracy: 41.34%

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

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

built data in 1.5742340087890625 seconds

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

total runtime to train this model was 26.694780826568604 seconds

Hyperparameteres for model 3 at epoch 3

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.422863006591797 seconds

Loss: 1.6828

Train Accuracy: 37.69%

Test Accuracy: 38.44%

Google Drive already mounted.

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

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

built data in 1.7702529430389404 seconds
LR changed during epoch: 1.43e-04 -> 2.14e-04
total runtime to train this model was 26.22753930091858 seconds
Hyperparameteres for model 4 at epoch 3
lr: 0.0003565125943597626

weight_decay: 0.13274485841923567

drop_path: 0.10173156958188419

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.618593215942383 seconds

Loss: 1.6668

Train Accuracy: 37.99%

Test Accuracy: 39.95%

Google Drive already mounted.

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

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Epoch 3 Summary:

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Time: 156.45s (Avg member: 31.29s)

Population Mean Accuracy: 38.91%

Best Member Accuracy: 41.34%

Mean Batch Size: 256

Mean Learning Rate: 3.18e-04

Mean Weight Decay: 0.102

=====
Epoch 4/70

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

built data in 1.610398292541504 seconds

LR changed during epoch: 1.14e-04 -> 1.52e-04

total runtime to train this model was 26.723716497421265 seconds

Hyperparameteres for model 0 at epoch 4

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4094998836517334 seconds

Loss: 1.6263

Train Accuracy: 40.22%

Test Accuracy: 43.06%

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

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

built data in 1.603882074356079 seconds

LR changed during epoch: 1.57e-04 -> 2.09e-04

total runtime to train this model was 26.659944772720337 seconds

Hyperparameteres for model 1 at epoch 4

lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3617961406707764 seconds

Loss: 1.6066

Train Accuracy: 40.89%

Test Accuracy: 43.07%

Google Drive already mounted.

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

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

built data in 1.5701782703399658 seconds

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

total runtime to train this model was 26.873714447021484 seconds

Hyperparameteres for model 2 at epoch 4

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.410067081451416 seconds

Loss: 1.5269

Train Accuracy: 44.48%

Test Accuracy: 47.09%

Google Drive already mounted.

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

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

built data in 1.6357676982879639 seconds

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

total runtime to train this model was 26.98317813873291 seconds

Hyperparameteres for model 3 at epoch 4

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.837476968765259 seconds

Loss: 1.5748

Train Accuracy: 41.89%

Test Accuracy: 43.19%
Google Drive already mounted.
Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.7666780948638916 seconds
LR changed during epoch: 2.14e-04 -> 2.86e-04
total runtime to train this model was 26.226388692855835 seconds
Hyperparameteres for model 4 at epoch 4
lr: 0.0003565125943597626

weight_decay: 0.13274485841923567

drop_path: 0.10173156958188419

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.189103364944458 seconds

Loss: 1.5470

Train Accuracy: 43.58%

Test Accuracy: 44.31%

Google Drive already mounted.

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

=====
Epoch 4 Summary:

=====
Time: 156.10s (Avg member: 31.22s)

Population Mean Accuracy: 44.14%

Best Member Accuracy: 47.09%

Mean Batch Size: 256

Mean Learning Rate: 3.18e-04

Mean Weight Decay: 0.102

=====
Epoch 5/70

=====
--- Training Member 0 (Batch size: 256) ---
built data in 1.661055564880371 seconds
LR changed during epoch: 1.52e-04 -> 1.89e-04
total runtime to train this model was 27.270741939544678 seconds
Hyperparameteres for model 0 at epoch 5
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.609376907348633 seconds

Loss: 1.5280

Train Accuracy: 44.21%

Test Accuracy: 46.53%

Google Drive already mounted.

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

--- Training Member 1 (Batch size: 256) ---
built data in 1.6209733486175537 seconds
LR changed during epoch: 2.09e-04 -> 2.61e-04
total runtime to train this model was 27.47381854057312 seconds
Hyperparameteres for model 1 at epoch 5
lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.475825786590576 seconds

Loss: 1.5116

Train Accuracy: 44.70%

Test Accuracy: 44.91%

Google Drive already mounted.

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

--- Training Member 2 (Batch size: 256) ---
built data in 1.6257998943328857 seconds
LR changed during epoch: 3.73e-04 -> 4.66e-04
total runtime to train this model was 27.498345613479614 seconds
Hyperparameteres for model 2 at epoch 5
lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9491682052612305 seconds

Loss: 1.4534

Train Accuracy: 47.18%

Test Accuracy: 48.68%

Google Drive already mounted.

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

--- Training Member 3 (Batch size: 256) ---
built data in 1.7792110443115234 seconds
LR changed during epoch: 2.53e-04 -> 3.16e-04
total runtime to train this model was 27.068382740020752 seconds
Hyperparameteres for model 3 at epoch 5
lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.0401952266693115 seconds

Loss: 1.4833

Train Accuracy: 45.85%

Test Accuracy: 47.68%

Google Drive already mounted.

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

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

built data in 1.667367696762085 seconds

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

total runtime to train this model was 27.639610290527344 seconds

Hyperparameteres for model 4 at epoch 5

lr: 0.0003565125943597626

weight_decay: 0.13274485841923567

drop_path: 0.10173156958188419

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.465087413787842 seconds

Loss: 1.4734

Train Accuracy: 46.52%

Test Accuracy: 44.61%

Google Drive already mounted.

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

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

=== PBT Exploit & Explore ===

Top performers: [48.68]

Bottom performers: [44.61]

Member 4: lr changed from 0.0003565125943597626 to 0.0004709735258396173

Member 4: weight_decay changed from 0.13274485841923567 to 0.11778858204254335

Member 4: drop_path changed from 0.10173156958188419 to 0.10928590735902531

Member 4 copied from 2

LR=4.71e-04, WD=0.118, DropPath=0.109, Warmup=5 epochs, Batch=256

=====
Epoch 5 Summary:

=====
Time: 160.15s (Avg member: 32.03s)

Population Mean Accuracy: 46.48%

Best Member Accuracy: 48.68%

Mean Batch Size: 256

Mean Learning Rate: 3.41e-04

Mean Weight Decay: 0.099
=====

Epoch 6/70
=====

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

built data in 1.6011605262756348 seconds

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

total runtime to train this model was 27.95625615119934 seconds

Hyperparameteres for model 0 at epoch 6

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5261919498443604 seconds

Loss: 1.4454

Train Accuracy: 47.27%

Test Accuracy: 46.13%

Google Drive already mounted.

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

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

built data in 1.6425464153289795 seconds

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

total runtime to train this model was 27.464502573013306 seconds

Hyperparameteres for model 1 at epoch 6

lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.380974531173706 seconds

Loss: 1.4345

Train Accuracy: 47.86%

Test Accuracy: 50.39%

Google Drive already mounted.

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

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

built data in 1.6795318126678467 seconds

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

total runtime to train this model was 28.05703616142273 seconds

Hyperparameteres for model 2 at epoch 6

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5337133407592773 seconds

Loss: 1.3918

Train Accuracy: 49.58%

Test Accuracy: 51.82%

Google Drive already mounted.

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

--- Training Member 3 (Batch size: 256) ---
built data in 1.687096118927002 seconds
LR changed during epoch: 3.16e-04 -> 3.15e-04
total runtime to train this model was 27.70718288421631 seconds
Hyperparameteres for model 3 at epoch 6
lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4524333477020264 seconds
Loss: 1.4075
Train Accuracy: 48.79%
Test Accuracy: 50.07%

Google Drive already mounted.

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

--- Training Member 4 (Batch size: 256) ---
built data in 1.6233527660369873 seconds
LR changed during epoch: 4.81e-07 -> 9.47e-05
total runtime to train this model was 27.285024642944336 seconds
Hyperparameteres for model 4 at epoch 6
lr: 0.0004709735258396173

weight_decay: 0.11778858204254335

drop_path: 0.10928590735902531

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.454279661178589 seconds
Loss: 1.3247
Train Accuracy: 52.06%
Test Accuracy: 53.59%

Google Drive already mounted.

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

=====
Epoch 6 Summary:

=====
Time: 161.32s (Avg member: 32.26s)
Population Mean Accuracy: 50.40%
Best Member Accuracy: 53.59%
Mean Batch Size: 256
Mean Learning Rate: 3.41e-04
Mean Weight Decay: 0.099

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.7093243598937988 seconds
LR changed during epoch: 1.89e-04 -> 1.89e-04
total runtime to train this model was 26.83504319190979 seconds
Hyperparameteres for model 0 at epoch 7
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.4620978832244873 seconds

Loss: 1.3815

Train Accuracy: 49.78%

Test Accuracy: 51.34%

Google Drive already mounted.

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

--- Training Member 1 (Batch size: 256) ---
built data in 1.696103811264038 seconds
LR changed during epoch: 2.61e-04 -> 2.60e-04
total runtime to train this model was 27.130391597747803 seconds
Hyperparameteres for model 1 at epoch 7
lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.6780383586883545 seconds

Loss: 1.3691

Train Accuracy: 50.50%

Test Accuracy: 51.29%

Google Drive already mounted.

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

--- Training Member 2 (Batch size: 256) ---
built data in 1.5987904071807861 seconds
LR changed during epoch: 4.66e-04 -> 4.65e-04
total runtime to train this model was 27.652629852294922 seconds
Hyperparameteres for model 2 at epoch 7
lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.446624279022217 seconds

Loss: 1.3402

Train Accuracy: 51.42%

Test Accuracy: 53.78%

Google Drive already mounted.

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

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

built data in 1.5897283554077148 seconds

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

total runtime to train this model was 27.539509773254395 seconds

Hyperparameteres for model 3 at epoch 7

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.479365825653076 seconds

Loss: 1.3486

Train Accuracy: 51.24%

Test Accuracy: 52.89%

Google Drive already mounted.

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

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

built data in 1.6435272693634033 seconds

LR changed during epoch: 9.47e-05 -> 1.89e-04

total runtime to train this model was 27.317718029022217 seconds

Hyperparameteres for model 4 at epoch 7

lr: 0.0004709735258396173

weight_decay: 0.11778858204254335

drop_path: 0.10928590735902531

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.3259437084198 seconds

Loss: 1.2940

Train Accuracy: 53.19%

Test Accuracy: 53.61%

Google Drive already mounted.

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

=====
Epoch 7 Summary:

=====
Time: 160.41s (Avg member: 32.08s)

Population Mean Accuracy: 52.58%

Best Member Accuracy: 53.78%

Mean Batch Size: 256

Mean Learning Rate: 3.41e-04

Mean Weight Decay: 0.099

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.858821153640747 seconds
LR changed during epoch: 1.89e-04 -> 1.88e-04
total runtime to train this model was 27.790260791778564 seconds
Hyperparameteres for model 0 at epoch 8
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4543466567993164 seconds

Loss: 1.3243

Train Accuracy: 52.08%

Test Accuracy: 53.36%

Google Drive already mounted.

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

--- Training Member 1 (Batch size: 256) ---
built data in 1.6302049160003662 seconds
LR changed during epoch: 2.60e-04 -> 2.60e-04
total runtime to train this model was 27.357277154922485 seconds
Hyperparameteres for model 1 at epoch 8
lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5082805156707764 seconds

Loss: 1.3162

Train Accuracy: 52.26%

Test Accuracy: 53.33%

Google Drive already mounted.

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

--- Training Member 2 (Batch size: 256) ---
built data in 1.5988109111785889 seconds
LR changed during epoch: 4.65e-04 -> 4.63e-04
total runtime to train this model was 27.846652269363403 seconds
Hyperparameteres for model 2 at epoch 8
lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.7591922283172607 seconds

Loss: 1.2865

Train Accuracy: 53.61%

Test Accuracy: 53.97%

Google Drive already mounted.

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

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

built data in 1.8645765781402588 seconds

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

total runtime to train this model was 27.086498737335205 seconds

Hyperparameteres for model 3 at epoch 8

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.8848166465759277 seconds

Loss: 1.2987

Train Accuracy: 52.88%

Test Accuracy: 54.53%

Google Drive already mounted.

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

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

built data in 1.6147751808166504 seconds

LR changed during epoch: 1.89e-04 -> 2.83e-04

total runtime to train this model was 27.50870680809021 seconds

Hyperparameteres for model 4 at epoch 8

lr: 0.0004709735258396173

weight_decay: 0.11778858204254335

drop_path: 0.10928590735902531

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4343433380126953 seconds

Loss: 1.2885

Train Accuracy: 53.41%

Test Accuracy: 54.49%

Google Drive already mounted.

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

=====
Epoch 8 Summary:

=====
Time: 161.44s (Avg member: 32.29s)

Population Mean Accuracy: 53.94%
Best Member Accuracy: 54.53%
Mean Batch Size: 256
Mean Learning Rate: 3.41e-04
Mean Weight Decay: 0.099

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.697951078414917 seconds
LR changed during epoch: 1.88e-04 -> 1.88e-04
total runtime to train this model was 27.426772356033325 seconds
Hyperparameteres for model 0 at epoch 9
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4929089546203613 seconds
Loss: 1.2839

Train Accuracy: 53.73%

Test Accuracy: 54.55%

Google Drive already mounted.

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

--- Training Member 1 (Batch size: 256) ---
built data in 1.612335443496704 seconds
LR changed during epoch: 2.60e-04 -> 2.59e-04
total runtime to train this model was 28.13321542739868 seconds
Hyperparameteres for model 1 at epoch 9
lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.776110887527466 seconds
Loss: 1.2764

Train Accuracy: 53.92%

Test Accuracy: 54.73%

Google Drive already mounted.

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

--- Training Member 2 (Batch size: 256) ---
built data in 1.8978323936462402 seconds
LR changed during epoch: 4.63e-04 -> 4.61e-04
total runtime to train this model was 28.191030979156494 seconds
Hyperparameteres for model 2 at epoch 9
lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.1491494178771973 seconds

Loss: 1.2563

Train Accuracy: 54.92%

Test Accuracy: 54.74%

Google Drive already mounted.

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

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

built data in 1.6425340175628662 seconds

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

total runtime to train this model was 28.070799827575684 seconds

Hyperparameteres for model 3 at epoch 9

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.496854066848755 seconds

Loss: 1.2607

Train Accuracy: 54.67%

Test Accuracy: 55.10%

Google Drive already mounted.

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

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

built data in 1.667717695236206 seconds

LR changed during epoch: 2.83e-04 -> 3.77e-04

total runtime to train this model was 27.579769134521484 seconds

Hyperparameteres for model 4 at epoch 9

lr: 0.0004709735258396173

weight_decay: 0.11778858204254335

drop_path: 0.10928590735902531

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.490885019302368 seconds

Loss: 1.2879

Train Accuracy: 53.30%

Test Accuracy: 54.01%

Google Drive already mounted.

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

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

Time: 162.64s (Avg member: 32.53s)
Population Mean Accuracy: 54.63%
Best Member Accuracy: 55.10%
Mean Batch Size: 256
Mean Learning Rate: 3.41e-04
Mean Weight Decay: 0.099

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.7397019863128662 seconds
LR changed during epoch: 1.88e-04 -> 1.87e-04
total runtime to train this model was 27.108659029006958 seconds
Hyperparameteres for model 0 at epoch 10
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.750706195831299 seconds
Loss: 1.2461

Train Accuracy: 54.96%

Test Accuracy: 55.92%

Google Drive already mounted.

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

--- Training Member 1 (Batch size: 256) ---
built data in 1.6324832439422607 seconds
LR changed during epoch: 2.59e-04 -> 2.57e-04
total runtime to train this model was 27.839985609054565 seconds
Hyperparameteres for model 1 at epoch 10
lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5901618003845215 seconds
Loss: 1.2404

Train Accuracy: 55.30%

Test Accuracy: 56.35%

Google Drive already mounted.

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

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

built data in 1.6171550750732422 seconds
LR changed during epoch: 4.61e-04 -> 4.59e-04
total runtime to train this model was 27.581018209457397 seconds
Hyperparameteres for model 2 at epoch 10
lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4728307723999023 seconds

Loss: 1.2143

Train Accuracy: 56.08%

Test Accuracy: 57.98%

Google Drive already mounted.

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

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

built data in 1.6229329109191895 seconds

LR changed during epoch: 3.13e-04 -> 3.11e-04

total runtime to train this model was 27.443077564239502 seconds

Hyperparameteres for model 3 at epoch 10

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.0212440490722656 seconds

Loss: 1.2184

Train Accuracy: 56.00%

Test Accuracy: 57.14%

Google Drive already mounted.

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

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

built data in 1.797511100769043 seconds

LR changed during epoch: 3.77e-04 -> 4.71e-04

total runtime to train this model was 27.13915252685547 seconds

Hyperparameteres for model 4 at epoch 10

lr: 0.0004709735258396173

weight_decay: 0.11778858204254335

drop_path: 0.10928590735902531

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.914689302444458 seconds

Loss: 1.2858
Train Accuracy: 53.63%
Test Accuracy: 55.09%
Google Drive already mounted.
Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

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

=== PBT Exploit & Explore ===
Top performers: [57.98]
Bottom performers: [55.09]
Member 4: lr changed from 0.0004709735258396173 to 0.0006183501172364011
Member 4: weight_decay changed from 0.11778858204254335 to 0.1295228750008363
Member 4: drop_path changed from 0.10928590735902531 to 0.08852924040813312
Member 4 copied from 2
LR=6.18e-04, WD=0.130, DropPath=0.089, Warmup=5 epochs, Batch=256

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

Time: 161.51s (Avg member: 32.30s)
Population Mean Accuracy: 56.50%
Best Member Accuracy: 57.98%
Mean Batch Size: 256
Mean Learning Rate: 3.70e-04
Mean Weight Decay: 0.102

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.610257863998413 seconds
LR changed during epoch: 1.87e-04 -> 1.85e-04
total runtime to train this model was 27.276387214660645 seconds
Hyperparameteres for model 0 at epoch 11
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4951608180999756 seconds

Loss: 1.2124
Train Accuracy: 56.26%
Test Accuracy: 58.58%
Google Drive already mounted.
Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.5860569477081299 seconds
LR changed during epoch: 2.57e-04 -> 2.56e-04
total runtime to train this model was 27.319581508636475 seconds
Hyperparameteres for model 1 at epoch 11
lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4887235164642334 seconds

Loss: 1.2053

Train Accuracy: 56.34%

Test Accuracy: 58.06%

Google Drive already mounted.

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

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

built data in 1.6123497486114502 seconds

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

total runtime to train this model was 27.472597122192383 seconds

Hyperparameteres for model 2 at epoch 11

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.908623218536377 seconds

Loss: 1.1690

Train Accuracy: 58.10%

Test Accuracy: 59.41%

Google Drive already mounted.

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

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

built data in 1.7583849430084229 seconds

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

total runtime to train this model was 26.957719326019287 seconds

Hyperparameteres for model 3 at epoch 11

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.0850000381469727 seconds

Loss: 1.1812

Train Accuracy: 57.82%

Test Accuracy: 58.67%

Google Drive already mounted.

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

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

built data in 1.6363983154296875 seconds
LR changed during epoch: 6.31e-07 -> 1.24e-04
total runtime to train this model was 27.243196487426758 seconds
Hyperparameteres for model 4 at epoch 11
lr: 0.0006183501172364011

weight_decay: 0.1295228750008363

drop_path: 0.08852924040813312

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.405195474624634 seconds

Loss: 1.1095

Train Accuracy: 60.33%

Test Accuracy: 60.31%

Google Drive already mounted.

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

=====
Epoch 11 Summary:

=====
Time: 159.11s (Avg member: 31.82s)

Population Mean Accuracy: 59.01%

Best Member Accuracy: 60.31%

Mean Batch Size: 256

Mean Learning Rate: 3.70e-04

Mean Weight Decay: 0.102

=====
Epoch 12/70

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

built data in 1.6023788452148438 seconds

LR changed during epoch: 1.85e-04 -> 1.84e-04

total runtime to train this model was 27.193037033081055 seconds

Hyperparameteres for model 0 at epoch 12

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.456965208053589 seconds

Loss: 1.1811

Train Accuracy: 57.43%

Test Accuracy: 58.22%

Google Drive already mounted.

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

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

built data in 1.5989716053009033 seconds

LR changed during epoch: 2.56e-04 -> 2.54e-04

total runtime to train this model was 27.33422303199768 seconds

Hyperparameteres for model 1 at epoch 12

lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.578077554702759 seconds

Loss: 1.1752

Train Accuracy: 57.70%

Test Accuracy: 57.52%

Google Drive already mounted.

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

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

built data in 1.7363011837005615 seconds

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

total runtime to train this model was 27.17780613899231 seconds

Hyperparameteres for model 2 at epoch 12

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.666445732116699 seconds

Loss: 1.1399

Train Accuracy: 59.31%

Test Accuracy: 59.81%

Google Drive already mounted.

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

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

built data in 1.6399061679840088 seconds

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

total runtime to train this model was 27.95003867149353 seconds

Hyperparameteres for model 3 at epoch 12

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4860458374023438 seconds

Loss: 1.1510

Train Accuracy: 58.80%

Test Accuracy: 58.64%
Google Drive already mounted.
Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.6186542510986328 seconds
LR changed during epoch: 1.24e-04 -> 2.48e-04
total runtime to train this model was 27.560484647750854 seconds
Hyperparameteres for model 4 at epoch 12
lr: 0.0006183501172364011

weight_decay: 0.1295228750008363

drop_path: 0.08852924040813312

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.448606491088867 seconds

Loss: 1.0896

Train Accuracy: 60.99%

Test Accuracy: 60.07%

Google Drive already mounted.

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

=====
Epoch 12 Summary:

=====
Time: 160.32s (Avg member: 32.06s)

Population Mean Accuracy: 58.85%

Best Member Accuracy: 60.07%

Mean Batch Size: 256

Mean Learning Rate: 3.70e-04

Mean Weight Decay: 0.102

=====
Epoch 13/70

=====
--- Training Member 0 (Batch size: 256) ---
built data in 1.620501756680908 seconds
LR changed during epoch: 1.84e-04 -> 1.82e-04
total runtime to train this model was 27.623478174209595 seconds
Hyperparameteres for model 0 at epoch 13
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9539668560028076 seconds

Loss: 1.1503

Train Accuracy: 58.58%

Test Accuracy: 60.06%

Google Drive already mounted.

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

--- Training Member 1 (Batch size: 256) ---
built data in 1.784515380859375 seconds
LR changed during epoch: 2.54e-04 -> 2.51e-04
total runtime to train this model was 26.78109121322632 seconds
Hyperparameteres for model 1 at epoch 13
lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.0366227626800537 seconds
Loss: 1.1403
Train Accuracy: 58.99%
Test Accuracy: 60.00%

Google Drive already mounted.

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

--- Training Member 2 (Batch size: 256) ---
built data in 1.5979340076446533 seconds
LR changed during epoch: 4.53e-04 -> 4.49e-04
total runtime to train this model was 27.15037989616394 seconds
Hyperparameteres for model 2 at epoch 13
lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.3969359397888184 seconds
Loss: 1.1028
Train Accuracy: 60.74%
Test Accuracy: 60.90%

Google Drive already mounted.

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

--- Training Member 3 (Batch size: 256) ---
built data in 1.5800724029541016 seconds
LR changed during epoch: 3.07e-04 -> 3.04e-04
total runtime to train this model was 27.39163327217102 seconds
Hyperparameteres for model 3 at epoch 13
lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4106550216674805 seconds

Loss: 1.1160

Train Accuracy: 60.17%

Test Accuracy: 60.49%

Google Drive already mounted.

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

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

built data in 1.5935885906219482 seconds

LR changed during epoch: 2.48e-04 -> 3.72e-04

total runtime to train this model was 26.097879886627197 seconds

Hyperparameteres for model 4 at epoch 13

lr: 0.0006183501172364011

weight_decay: 0.1295228750008363

drop_path: 0.08852924040813312

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.2777762413024902 seconds

Loss: 1.1058

Train Accuracy: 60.31%

Test Accuracy: 59.23%

Google Drive already mounted.

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

=====
Epoch 13 Summary:

=====
Time: 157.55s (Avg member: 31.51s)

Population Mean Accuracy: 60.14%

Best Member Accuracy: 60.90%

Mean Batch Size: 256

Mean Learning Rate: 3.70e-04

Mean Weight Decay: 0.102

=====
Epoch 14/70

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

built data in 1.742149829864502 seconds

LR changed during epoch: 1.82e-04 -> 1.81e-04

total runtime to train this model was 25.64160704612732 seconds

Hyperparameteres for model 0 at epoch 14

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.0550742149353027 seconds

Loss: 1.1145

Train Accuracy: 60.02%

Test Accuracy: 60.74%

Google Drive already mounted.

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

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

built data in 1.7856693267822266 seconds

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

total runtime to train this model was 27.013768911361694 seconds

Hyperparameteres for model 1 at epoch 14

lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.7929768562316895 seconds

Loss: 1.1140

Train Accuracy: 59.93%

Test Accuracy: 60.29%

Google Drive already mounted.

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

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

built data in 1.605194330215454 seconds

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

total runtime to train this model was 27.28710913658142 seconds

Hyperparameteres for model 2 at epoch 14

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3732500076293945 seconds

Loss: 1.0661

Train Accuracy: 61.95%

Test Accuracy: 62.85%

Google Drive already mounted.

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

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

built data in 1.6412498950958252 seconds

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

total runtime to train this model was 27.189140796661377 seconds

Hyperparameteres for model 3 at epoch 14

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.3848209381103516 seconds

Loss: 1.0787

Train Accuracy: 61.69%

Test Accuracy: 60.35%

Google Drive already mounted.

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

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

built data in 1.5856404304504395 seconds

LR changed during epoch: 3.72e-04 -> 4.95e-04

total runtime to train this model was 27.184568166732788 seconds

Hyperparameteres for model 4 at epoch 14

lr: 0.0006183501172364011

weight_decay: 0.1295228750008363

drop_path: 0.08852924040813312

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.8953278064727783 seconds

Loss: 1.1203

Train Accuracy: 59.77%

Test Accuracy: 60.11%

Google Drive already mounted.

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

=====
Epoch 14 Summary:

=====
Time: 157.51s (Avg member: 31.50s)

Population Mean Accuracy: 60.87%

Best Member Accuracy: 62.85%

Mean Batch Size: 256

Mean Learning Rate: 3.70e-04

Mean Weight Decay: 0.102

=====
Epoch 15/70

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

built data in 1.843510389328003 seconds

LR changed during epoch: 1.81e-04 -> 1.79e-04

total runtime to train this model was 26.47593927383423 seconds

Hyperparameteres for model 0 at epoch 15

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.270176649093628 seconds

Loss: 1.0901

Train Accuracy: 60.91%

Test Accuracy: 59.45%

Google Drive already mounted.

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

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

built data in 1.5789170265197754 seconds

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

total runtime to train this model was 27.3036789894104 seconds

Hyperparameteres for model 1 at epoch 15

lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5770821571350098 seconds

Loss: 1.0863

Train Accuracy: 60.98%

Test Accuracy: 60.41%

Google Drive already mounted.

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

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

built data in 1.5725805759429932 seconds

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

total runtime to train this model was 26.987700700759888 seconds

Hyperparameteres for model 2 at epoch 15

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4249603748321533 seconds

Loss: 1.0421

Train Accuracy: 62.87%

Test Accuracy: 63.51%

Google Drive already mounted.

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

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

built data in 1.5864362716674805 seconds

LR changed during epoch: 3.01e-04 -> 2.98e-04

total runtime to train this model was 27.1509952545166 seconds

Hyperparameteres for model 3 at epoch 15
lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4149081707000732 seconds
Loss: 1.0517

Train Accuracy: 62.56%

Test Accuracy: 61.67%

Google Drive already mounted.

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

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

built data in 1.729496955871582 seconds

LR changed during epoch: 4.95e-04 -> 6.18e-04

total runtime to train this model was 26.415987253189087 seconds

Hyperparameteres for model 4 at epoch 15

lr: 0.0006183501172364011

weight_decay: 0.1295228750008363

drop_path: 0.08852924040813312

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.531702995300293 seconds
Loss: 1.1266

Train Accuracy: 59.72%

Test Accuracy: 58.66%

Google Drive already mounted.

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

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

=== PBT Exploit & Explore ===

Top performers: [63.51]

Bottom performers: [58.66]

Member 4: lr changed from 0.0006183501172364011 to 0.0008384231018857852

Member 4: weight_decay changed from 0.1295228750008363 to 0.12880680583585125

Member 4: drop_path changed from 0.08852924040813312 to 0.07151473777432354

Member 4 copied from 2

LR=8.38e-04, WD=0.129, DropPath=0.072, Warmup=5 epochs, Batch=256

=====
Epoch 15 Summary:

=====
Time: 158.12s (Avg member: 31.62s)

Population Mean Accuracy: 60.74%

Best Member Accuracy: 63.51%

Mean Batch Size: 256

Mean Learning Rate: 4.14e-04

Mean Weight Decay: 0.102

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.6806066036224365 seconds
LR changed during epoch: 1.79e-04 -> 1.76e-04
total runtime to train this model was 27.32288122177124 seconds
Hyperparameteres for model 0 at epoch 16
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4730663299560547 seconds

Loss: 1.0708

Train Accuracy: 61.81%

Test Accuracy: 60.94%

Google Drive already mounted.

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

--- Training Member 1 (Batch size: 256) ---
built data in 1.5891449451446533 seconds
LR changed during epoch: 2.46e-04 -> 2.43e-04
total runtime to train this model was 27.748555421829224 seconds
Hyperparameteres for model 1 at epoch 16
lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5305252075195312 seconds

Loss: 1.0668

Train Accuracy: 61.75%

Test Accuracy: 61.86%

Google Drive already mounted.

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

--- Training Member 2 (Batch size: 256) ---
built data in 1.6077549457550049 seconds
LR changed during epoch: 4.39e-04 -> 4.34e-04
total runtime to train this model was 27.216848611831665 seconds
Hyperparameteres for model 2 at epoch 16
lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.479849100112915 seconds

Loss: 1.0118

Train Accuracy: 63.92%

Test Accuracy: 64.48%

Google Drive already mounted.

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

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

built data in 1.6933221817016602 seconds

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

total runtime to train this model was 26.57480788230896 seconds

Hyperparameteres for model 3 at epoch 16

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.392263889312744 seconds

Loss: 1.0387

Train Accuracy: 62.85%

Test Accuracy: 63.73%

Google Drive already mounted.

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

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

built data in 1.7112507820129395 seconds

LR changed during epoch: 8.56e-07 -> 1.69e-04

total runtime to train this model was 26.8104989528656 seconds

Hyperparameteres for model 4 at epoch 16

lr: 0.0008384231018857852

weight_decay: 0.12880680583585125

drop_path: 0.07151473777432354

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.557356834411621 seconds

Loss: 0.9400

Train Accuracy: 66.58%

Test Accuracy: 65.65%

Google Drive already mounted.

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

=====
Epoch 16 Summary:

=====
Time: 158.67s (Avg member: 31.73s)

Population Mean Accuracy: 63.33%
Best Member Accuracy: 65.65%
Mean Batch Size: 256
Mean Learning Rate: 4.14e-04
Mean Weight Decay: 0.102

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.608015775680542 seconds
LR changed during epoch: 1.76e-04 -> 1.74e-04
total runtime to train this model was 26.980183362960815 seconds
Hyperparameteres for model 0 at epoch 17
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.428964138031006 seconds

Loss: 1.0373

Train Accuracy: 63.21%

Test Accuracy: 64.24%

Google Drive already mounted.

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

--- Training Member 1 (Batch size: 256) ---
built data in 1.5963618755340576 seconds
LR changed during epoch: 2.43e-04 -> 2.40e-04
total runtime to train this model was 27.114691495895386 seconds
Hyperparameteres for model 1 at epoch 17
lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4402196407318115 seconds

Loss: 1.0441

Train Accuracy: 62.74%

Test Accuracy: 63.91%

Google Drive already mounted.

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

--- Training Member 2 (Batch size: 256) ---
built data in 1.5907423496246338 seconds
LR changed during epoch: 4.34e-04 -> 4.28e-04
total runtime to train this model was 26.99683666229248 seconds
Hyperparameteres for model 2 at epoch 17
lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.971548080444336 seconds

Loss: 0.9830

Train Accuracy: 65.24%

Test Accuracy: 66.04%

Google Drive already mounted.

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

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

built data in 1.7988600730895996 seconds

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

total runtime to train this model was 26.393638372421265 seconds

Hyperparameteres for model 3 at epoch 17

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.1120495796203613 seconds

Loss: 1.0071

Train Accuracy: 64.19%

Test Accuracy: 63.31%

Google Drive already mounted.

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

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

built data in 1.592637062072754 seconds

LR changed during epoch: 1.69e-04 -> 3.36e-04

total runtime to train this model was 27.239272594451904 seconds

Hyperparameteres for model 4 at epoch 17

lr: 0.0008384231018857852

weight_decay: 0.12880680583585125

drop_path: 0.07151473777432354

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.38545823097229 seconds

Loss: 0.9472

Train Accuracy: 66.44%

Test Accuracy: 65.63%

Google Drive already mounted.

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

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

Time: 157.51s (Avg member: 31.50s)
Population Mean Accuracy: 64.63%
Best Member Accuracy: 66.04%
Mean Batch Size: 256
Mean Learning Rate: 4.14e-04
Mean Weight Decay: 0.102

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.5937070846557617 seconds
LR changed during epoch: 1.74e-04 -> 1.71e-04
total runtime to train this model was 27.015817880630493 seconds
Hyperparameteres for model 0 at epoch 18
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.512418746948242 seconds
Loss: 1.0214

Train Accuracy: 63.46%

Test Accuracy: 64.71%

Google Drive already mounted.

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

--- Training Member 1 (Batch size: 256) ---
built data in 1.6049699783325195 seconds
LR changed during epoch: 2.40e-04 -> 2.36e-04
total runtime to train this model was 27.24627113342285 seconds
Hyperparameteres for model 1 at epoch 18
lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.6025078296661377 seconds
Loss: 1.0138

Train Accuracy: 63.97%

Test Accuracy: 64.02%

Google Drive already mounted.

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

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

built data in 1.8676440715789795 seconds
LR changed during epoch: 4.28e-04 -> 4.21e-04
total runtime to train this model was 26.098430395126343 seconds
Hyperparameteres for model 2 at epoch 18
lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.4132933616638184 seconds

Loss: 0.9619

Train Accuracy: 65.87%

Test Accuracy: 66.74%

Google Drive already mounted.

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

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

built data in 1.5853514671325684 seconds

LR changed during epoch: 2.90e-04 -> 2.85e-04

total runtime to train this model was 26.94275665283203 seconds

Hyperparameteres for model 3 at epoch 18

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4213922023773193 seconds

Loss: 0.9850

Train Accuracy: 65.07%

Test Accuracy: 64.60%

Google Drive already mounted.

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

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

built data in 1.59830641746521 seconds

LR changed during epoch: 3.36e-04 -> 5.04e-04

total runtime to train this model was 27.09121537208557 seconds

Hyperparameteres for model 4 at epoch 18

lr: 0.0008384231018857852

weight_decay: 0.12880680583585125

drop_path: 0.07151473777432354

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4007036685943604 seconds

Loss: 0.9824
Train Accuracy: 64.97%
Test Accuracy: 64.15%
Google Drive already mounted.
Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

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

Time: 157.24s (Avg member: 31.45s)
Population Mean Accuracy: 64.84%
Best Member Accuracy: 66.74%
Mean Batch Size: 256
Mean Learning Rate: 4.14e-04
Mean Weight Decay: 0.102

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.5989081859588623 seconds
LR changed during epoch: 1.71e-04 -> 1.69e-04
total runtime to train this model was 27.36182737350464 seconds
Hyperparameteres for model 0 at epoch 19
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4751195907592773 seconds

Loss: 0.9919
Train Accuracy: 64.64%
Test Accuracy: 65.08%
Google Drive already mounted.
Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.7686161994934082 seconds
LR changed during epoch: 2.36e-04 -> 2.32e-04
total runtime to train this model was 27.286829710006714 seconds
Hyperparameteres for model 1 at epoch 19
lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.733595371246338 seconds

Loss: 0.9920
Train Accuracy: 64.56%

Test Accuracy: 63.97%

Google Drive already mounted.

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

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

built data in 1.7061336040496826 seconds

LR changed during epoch: 4.21e-04 -> 4.15e-04

total runtime to train this model was 27.368005514144897 seconds

Hyperparameteres for model 2 at epoch 19

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3580949306488037 seconds

Loss: 0.9264

Train Accuracy: 67.01%

Test Accuracy: 66.66%

Google Drive already mounted.

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

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

built data in 1.6274771690368652 seconds

LR changed during epoch: 2.85e-04 -> 2.81e-04

total runtime to train this model was 27.38473081588745 seconds

Hyperparameteres for model 3 at epoch 19

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4403700828552246 seconds

Loss: 0.9578

Train Accuracy: 66.07%

Test Accuracy: 64.36%

Google Drive already mounted.

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

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

built data in 1.618762731552124 seconds

LR changed during epoch: 5.04e-04 -> 6.72e-04

total runtime to train this model was 27.11824107170105 seconds

Hyperparameteres for model 4 at epoch 19

lr: 0.0008384231018857852

weight_decay: 0.12880680583585125

drop_path: 0.07151473777432354

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4755518436431885 seconds
Loss: 1.0190

Train Accuracy: 63.57%

Test Accuracy: 63.65%

Google Drive already mounted.

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

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

Time: 159.60s (Avg member: 31.92s)

Population Mean Accuracy: 64.74%

Best Member Accuracy: 66.66%

Mean Batch Size: 256

Mean Learning Rate: 4.14e-04

Mean Weight Decay: 0.102

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

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

built data in 1.8303775787353516 seconds

LR changed during epoch: 1.69e-04 -> 1.66e-04

total runtime to train this model was 26.545974254608154 seconds

Hyperparameteres for model 0 at epoch 20

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.695592164993286 seconds
Loss: 0.9719

Train Accuracy: 65.49%

Test Accuracy: 65.86%

Google Drive already mounted.

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

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

built data in 1.666656732559204 seconds

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

total runtime to train this model was 27.89762020111084 seconds

Hyperparameteres for model 1 at epoch 20

lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.53912353515625 seconds

Loss: 0.9705

Train Accuracy: 65.38%

Test Accuracy: 65.74%

Google Drive already mounted.

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

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

built data in 1.6367034912109375 seconds

LR changed during epoch: 4.15e-04 -> 4.07e-04

total runtime to train this model was 27.49340534210205 seconds

Hyperparameteres for model 2 at epoch 20

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.6206605434417725 seconds

Loss: 0.9021

Train Accuracy: 67.90%

Test Accuracy: 67.86%

Google Drive already mounted.

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

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

built data in 1.6169664859771729 seconds

LR changed during epoch: 2.81e-04 -> 2.76e-04

total runtime to train this model was 27.50700068473816 seconds

Hyperparameteres for model 3 at epoch 20

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.638462543487549 seconds

Loss: 0.9371

Train Accuracy: 66.75%

Test Accuracy: 66.56%

Google Drive already mounted.

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

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

built data in 1.8205814361572266 seconds

LR changed during epoch: 6.72e-04 -> 8.38e-04

total runtime to train this model was 27.45389986038208 seconds

Hyperparameteres for model 4 at epoch 20

lr: 0.0008384231018857852

weight_decay: 0.12880680583585125

drop_path: 0.07151473777432354

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.1883530616760254 seconds

Loss: 1.0319

Train Accuracy: 63.37%

Test Accuracy: 61.96%

Google Drive already mounted.

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

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

=== PBT Exploit & Explore ===

Top performers: [67.86]

Bottom performers: [61.96]

Member 4: lr changed from 0.0008384231018857852 to 0.0006348217127879154

Member 4: weight_decay changed from 0.12880680583585125 to 0.15

Member 4: drop_path changed from 0.07151473777432354 to 0.06130270853498336

Member 4 copied from 2

LR=6.35e-04, WD=0.150, DropPath=0.061, Warmup=5 epochs, Batch=256

=====
Epoch 20 Summary:

Time: 161.43s (Avg member: 32.28s)

Population Mean Accuracy: 65.60%

Best Member Accuracy: 67.86%

Mean Batch Size: 256

Mean Learning Rate: 3.73e-04

Mean Weight Decay: 0.106

=====
Epoch 21/70

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

built data in 1.659017562866211 seconds

LR changed during epoch: 1.66e-04 -> 1.63e-04

total runtime to train this model was 27.91117835044861 seconds

Hyperparameteres for model 0 at epoch 21

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4953527450561523 seconds

Loss: 0.9508

Train Accuracy: 66.14%

Test Accuracy: 65.63%

Google Drive already mounted.

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

--- Training Member 1 (Batch size: 256) ---
built data in 1.6137492656707764 seconds
LR changed during epoch: 2.28e-04 -> 2.24e-04
total runtime to train this model was 28.18356728553772 seconds
Hyperparameteres for model 1 at epoch 21
lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.6113998889923096 seconds
Loss: 0.9551
Train Accuracy: 66.02%
Test Accuracy: 66.82%

Google Drive already mounted.

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

--- Training Member 2 (Batch size: 256) ---
built data in 1.7055799961090088 seconds
LR changed during epoch: 4.07e-04 -> 4.00e-04
total runtime to train this model was 27.934674739837646 seconds
Hyperparameteres for model 2 at epoch 21
lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.864553689956665 seconds
Loss: 0.8767
Train Accuracy: 68.83%
Test Accuracy: 67.85%

Google Drive already mounted.

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

--- Training Member 3 (Batch size: 256) ---
built data in 1.6093380451202393 seconds
LR changed during epoch: 2.76e-04 -> 2.71e-04
total runtime to train this model was 28.202391147613525 seconds
Hyperparameteres for model 3 at epoch 21
lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.494978189468384 seconds

Loss: 0.9160

Train Accuracy: 67.36%

Test Accuracy: 67.07%

Google Drive already mounted.

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

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

built data in 1.6215500831604004 seconds

LR changed during epoch: 6.48e-07 -> 1.28e-04

total runtime to train this model was 28.07461977005005 seconds

Hyperparameteres for model 4 at epoch 21

lr: 0.0006348217127879154

weight_decay: 0.15

drop_path: 0.06130270853498336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4889073371887207 seconds

Loss: 0.8138

Train Accuracy: 71.28%

Test Accuracy: 70.13%

Google Drive already mounted.

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

=====
Epoch 21 Summary:

=====
Time: 163.72s (Avg member: 32.74s)

Population Mean Accuracy: 67.50%

Best Member Accuracy: 70.13%

Mean Batch Size: 256

Mean Learning Rate: 3.73e-04

Mean Weight Decay: 0.106

=====
Epoch 22/70

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

built data in 1.605940341949463 seconds

LR changed during epoch: 1.63e-04 -> 1.59e-04

total runtime to train this model was 28.12002730369568 seconds

Hyperparameteres for model 0 at epoch 22

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.1277778148651123 seconds

Loss: 0.9313

Train Accuracy: 67.24%

Test Accuracy: 66.31%

Google Drive already mounted.

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

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

built data in 1.8374629020690918 seconds

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

total runtime to train this model was 27.283411026000977 seconds

Hyperparameteres for model 1 at epoch 22

lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.785717725753784 seconds

Loss: 0.9319

Train Accuracy: 66.94%

Test Accuracy: 66.17%

Google Drive already mounted.

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

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

built data in 1.6269521713256836 seconds

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

total runtime to train this model was 27.787476301193237 seconds

Hyperparameteres for model 2 at epoch 22

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4923384189605713 seconds

Loss: 0.8607

Train Accuracy: 69.38%

Test Accuracy: 67.98%

Google Drive already mounted.

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

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

built data in 1.6224217414855957 seconds

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

total runtime to train this model was 27.553995847702026 seconds

Hyperparameteres for model 3 at epoch 22

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4865915775299072 seconds

Loss: 0.8984

Train Accuracy: 68.30%

Test Accuracy: 66.60%

Google Drive already mounted.

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

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

built data in 1.6529767513275146 seconds

LR changed during epoch: 1.28e-04 -> 2.55e-04

total runtime to train this model was 27.428919553756714 seconds

Hyperparameteres for model 4 at epoch 22

lr: 0.0006348217127879154

weight_decay: 0.15

drop_path: 0.06130270853498336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.81474232673645 seconds

Loss: 0.8046

Train Accuracy: 71.53%

Test Accuracy: 69.60%

Google Drive already mounted.

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

=====
Epoch 22 Summary:

=====
Time: 162.56s (Avg member: 32.51s)

Population Mean Accuracy: 67.33%

Best Member Accuracy: 69.60%

Mean Batch Size: 256

Mean Learning Rate: 3.73e-04

Mean Weight Decay: 0.106

=====
Epoch 23/70

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

built data in 1.629211664199829 seconds

LR changed during epoch: 1.59e-04 -> 1.56e-04

total runtime to train this model was 27.76810884475708 seconds

Hyperparameteres for model 0 at epoch 23

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4217851161956787 seconds

Loss: 0.9186

Train Accuracy: 67.59%

Test Accuracy: 68.09%

Google Drive already mounted.

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

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

built data in 1.617494821548462 seconds

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

total runtime to train this model was 27.418909072875977 seconds

Hyperparameteres for model 1 at epoch 23

lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.454828977584839 seconds

Loss: 0.9137

Train Accuracy: 67.78%

Test Accuracy: 67.52%

Google Drive already mounted.

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

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

built data in 1.5997843742370605 seconds

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

total runtime to train this model was 27.610469579696655 seconds

Hyperparameteres for model 2 at epoch 23

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4703450202941895 seconds

Loss: 0.8327

Train Accuracy: 70.40%

Test Accuracy: 69.77%

Google Drive already mounted.

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

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

built data in 1.7629661560058594 seconds

LR changed during epoch: 2.65e-04 -> 2.60e-04

total runtime to train this model was 26.7717022895813 seconds

Hyperparameteres for model 3 at epoch 23
lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.7243454456329346 seconds
Loss: 0.8820

Train Accuracy: 68.70%

Test Accuracy: 68.53%

Google Drive already mounted.

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

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

built data in 1.6103718280792236 seconds

LR changed during epoch: 2.55e-04 -> 3.82e-04

total runtime to train this model was 27.44843554496765 seconds

Hyperparameteres for model 4 at epoch 23

lr: 0.0006348217127879154

weight_decay: 0.15

drop_path: 0.06130270853498336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.3877148628234863 seconds
Loss: 0.8326

Train Accuracy: 70.41%

Test Accuracy: 68.58%

Google Drive already mounted.

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

=====
Epoch 23 Summary:

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

Population Mean Accuracy: 68.50%

Best Member Accuracy: 69.77%

Mean Batch Size: 256

Mean Learning Rate: 3.73e-04

Mean Weight Decay: 0.106

=====
Epoch 24/70

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

built data in 1.606842279434204 seconds

LR changed during epoch: 1.56e-04 -> 1.52e-04

total runtime to train this model was 27.161182641983032 seconds

Hyperparameteres for model 0 at epoch 24

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3967125415802 seconds

Loss: 0.8970

Train Accuracy: 68.11%

Test Accuracy: 65.58%

Google Drive already mounted.

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

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

built data in 1.5797052383422852 seconds

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

total runtime to train this model was 27.153769493103027 seconds

Hyperparameteres for model 1 at epoch 24

lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3871102333068848 seconds

Loss: 0.8966

Train Accuracy: 67.94%

Test Accuracy: 68.40%

Google Drive already mounted.

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

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

built data in 1.6994588375091553 seconds

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

total runtime to train this model was 26.78369903564453 seconds

Hyperparameteres for model 2 at epoch 24

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.458655834197998 seconds

Loss: 0.8149

Train Accuracy: 71.21%

Test Accuracy: 69.62%

Google Drive already mounted.

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

--- Training Member 3 (Batch size: 256) ---
built data in 1.6634654998779297 seconds
LR changed during epoch: 2.60e-04 -> 2.54e-04
total runtime to train this model was 27.25007390975952 seconds
Hyperparameteres for model 3 at epoch 24
lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.465813398361206 seconds

Loss: 0.8593

Train Accuracy: 69.62%

Test Accuracy: 68.26%

Google Drive already mounted.

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

--- Training Member 4 (Batch size: 256) ---
built data in 1.6168200969696045 seconds
LR changed during epoch: 3.82e-04 -> 5.09e-04
total runtime to train this model was 27.683393955230713 seconds
Hyperparameteres for model 4 at epoch 24
lr: 0.0006348217127879154

weight_decay: 0.15

drop_path: 0.06130270853498336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.491095542907715 seconds

Loss: 0.8646

Train Accuracy: 69.25%

Test Accuracy: 68.94%

Google Drive already mounted.

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

=====
Epoch 24 Summary:

=====
Time: 158.68s (Avg member: 31.74s)

Population Mean Accuracy: 68.16%

Best Member Accuracy: 69.62%

Mean Batch Size: 256

Mean Learning Rate: 3.73e-04

Mean Weight Decay: 0.106

=====
Epoch 25/70

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

built data in 1.620058298110962 seconds
LR changed during epoch: 1.52e-04 -> 1.49e-04
total runtime to train this model was 27.673036813735962 seconds
Hyperparameteres for model 0 at epoch 25
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.49332594871521 seconds

Loss: 0.8836

Train Accuracy: 68.86%

Test Accuracy: 68.77%

Google Drive already mounted.

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

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

built data in 1.7903258800506592 seconds

LR changed during epoch: 2.10e-04 -> 2.05e-04

total runtime to train this model was 27.034793376922607 seconds

Hyperparameteres for model 1 at epoch 25

lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.780561923980713 seconds

Loss: 0.8817

Train Accuracy: 68.80%

Test Accuracy: 68.14%

Google Drive already mounted.

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

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

built data in 1.6019032001495361 seconds

LR changed during epoch: 3.74e-04 -> 3.65e-04

total runtime to train this model was 27.761693239212036 seconds

Hyperparameteres for model 2 at epoch 25

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.414233684539795 seconds

Loss: 0.7954
Train Accuracy: 71.64%
Test Accuracy: 70.26%
Google Drive already mounted.
Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6467061042785645 seconds
LR changed during epoch: 2.54e-04 -> 2.48e-04
total runtime to train this model was 27.504586696624756 seconds
Hyperparameteres for model 3 at epoch 25
lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.497469425201416 seconds

Loss: 0.8458
Train Accuracy: 70.14%
Test Accuracy: 69.30%

Google Drive already mounted.

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

--- Training Member 4 (Batch size: 256) ---
built data in 1.657306432723999 seconds
LR changed during epoch: 5.09e-04 -> 6.35e-04
total runtime to train this model was 27.214550256729126 seconds
Hyperparameteres for model 4 at epoch 25
lr: 0.0006348217127879154

weight_decay: 0.15

drop_path: 0.06130270853498336

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.462347984313965 seconds

Loss: 0.8930
Train Accuracy: 68.35%
Test Accuracy: 67.24%

Google Drive already mounted.

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

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

=== PBT Exploit & Explore ===

Top performers: [70.26]

Bottom performers: [67.24]

Member 4: lr changed from 0.0006348217127879154 to 0.0006955791925961341

Member 4: drop_path changed from 0.06130270853498336 to 0.054143033554297844

Member 4 copied from 2

LR=6.96e-04, WD=0.150, DropPath=0.054, Warmup=5 epochs, Batch=256

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

Time: 160.43s (Avg member: 32.08s)
Population Mean Accuracy: 68.74%
Best Member Accuracy: 70.26%
Mean Batch Size: 256
Mean Learning Rate: 3.85e-04
Mean Weight Decay: 0.106

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.7495405673980713 seconds
LR changed during epoch: 1.49e-04 -> 1.45e-04
total runtime to train this model was 26.7650945186615 seconds
Hyperparameteres for model 0 at epoch 26
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.5970611572265625 seconds
Loss: 0.8665

Train Accuracy: 69.41%

Test Accuracy: 69.16%

Google Drive already mounted.

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

--- Training Member 1 (Batch size: 256) ---
built data in 1.6186790466308594 seconds
LR changed during epoch: 2.05e-04 -> 2.00e-04
total runtime to train this model was 27.2508602142334 seconds
Hyperparameteres for model 1 at epoch 26
lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5232338905334473 seconds
Loss: 0.8625

Train Accuracy: 69.42%

Test Accuracy: 68.97%

Google Drive already mounted.

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

--- Training Member 2 (Batch size: 256) ---
built data in 1.6181299686431885 seconds

LR changed during epoch: 3.65e-04 -> 3.56e-04
total runtime to train this model was 27.205174207687378 seconds
Hyperparameteres for model 2 at epoch 26
lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.399409055709839 seconds

Loss: 0.7803

Train Accuracy: 72.12%

Test Accuracy: 71.05%

Google Drive already mounted.

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

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

built data in 1.6182289123535156 seconds

LR changed during epoch: 2.48e-04 -> 2.41e-04

total runtime to train this model was 26.64177894592285 seconds

Hyperparameteres for model 3 at epoch 26

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.38224720954895 seconds

Loss: 0.8297

Train Accuracy: 70.67%

Test Accuracy: 69.25%

Google Drive already mounted.

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

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

built data in 1.6580255031585693 seconds

LR changed during epoch: 7.10e-07 -> 1.40e-04

total runtime to train this model was 26.772802352905273 seconds

Hyperparameteres for model 4 at epoch 26

lr: 0.0006955791925961341

weight_decay: 0.15

drop_path: 0.054143033554297844

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.0372400283813477 seconds

Loss: 0.7128

Train Accuracy: 74.45%

Test Accuracy: 72.99%

Google Drive already mounted.

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

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

Time: 158.11s (Avg member: 31.62s)

Population Mean Accuracy: 70.28%

Best Member Accuracy: 72.99%

Mean Batch Size: 256

Mean Learning Rate: 3.85e-04

Mean Weight Decay: 0.106

=====

Epoch 27/70
=====

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

built data in 1.7402708530426025 seconds

LR changed during epoch: 1.45e-04 -> 1.41e-04

total runtime to train this model was 26.41661310195923 seconds

Hyperparameteres for model 0 at epoch 27

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.05977463722229 seconds

Loss: 0.8500

Train Accuracy: 69.78%

Test Accuracy: 69.61%

Google Drive already mounted.

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

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

built data in 1.6546566486358643 seconds

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

total runtime to train this model was 27.161292791366577 seconds

Hyperparameteres for model 1 at epoch 27

lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.446850538253784 seconds

Loss: 0.8444

Train Accuracy: 69.97%

Test Accuracy: 69.33%

Google Drive already mounted.

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

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

built data in 1.6006324291229248 seconds

LR changed during epoch: 3.56e-04 -> 3.46e-04

total runtime to train this model was 26.979236602783203 seconds

Hyperparameteres for model 2 at epoch 27

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.463979721069336 seconds

Loss: 0.7521

Train Accuracy: 73.15%

Test Accuracy: 71.39%

Google Drive already mounted.

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

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

built data in 1.6106011867523193 seconds

LR changed during epoch: 2.41e-04 -> 2.35e-04

total runtime to train this model was 26.93437695503235 seconds

Hyperparameteres for model 3 at epoch 27

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.723083972930908 seconds

Loss: 0.8144

Train Accuracy: 71.15%

Test Accuracy: 68.80%

Google Drive already mounted.

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

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

built data in 1.7702457904815674 seconds

LR changed during epoch: 1.40e-04 -> 2.79e-04

total runtime to train this model was 26.22802758216858 seconds

Hyperparameteres for model 4 at epoch 27

lr: 0.0006955791925961341

weight_decay: 0.15

drop_path: 0.054143033554297844

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.669113874435425 seconds

Loss: 0.7135

Train Accuracy: 74.79%

Test Accuracy: 71.45%

Google Drive already mounted.

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

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

Time: 157.71s (Avg member: 31.54s)

Population Mean Accuracy: 70.12%

Best Member Accuracy: 71.45%

Mean Batch Size: 256

Mean Learning Rate: 3.85e-04

Mean Weight Decay: 0.106

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

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

built data in 1.683661699295044 seconds

LR changed during epoch: 1.41e-04 -> 1.37e-04

total runtime to train this model was 27.14096426963806 seconds

Hyperparameteres for model 0 at epoch 28

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.498361349105835 seconds

Loss: 0.8380

Train Accuracy: 70.28%

Test Accuracy: 69.25%

Google Drive already mounted.

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

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

built data in 1.5858910083770752 seconds

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

total runtime to train this model was 26.742164850234985 seconds

Hyperparameteres for model 1 at epoch 28

lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5160717964172363 seconds

Loss: 0.8300

Train Accuracy: 70.65%

Test Accuracy: 69.45%

Google Drive already mounted.

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

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

built data in 1.5922324657440186 seconds

LR changed during epoch: 3.46e-04 -> 3.36e-04

total runtime to train this model was 26.82283663749695 seconds

Hyperparameteres for model 2 at epoch 28

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.6063132286071777 seconds

Loss: 0.7399

Train Accuracy: 73.65%

Test Accuracy: 70.95%

Google Drive already mounted.

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

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

built data in 1.6534013748168945 seconds

LR changed during epoch: 2.35e-04 -> 2.28e-04

total runtime to train this model was 26.58959722518921 seconds

Hyperparameteres for model 3 at epoch 28

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.249811887741089 seconds

Loss: 0.7924

Train Accuracy: 72.11%

Test Accuracy: 70.28%

Google Drive already mounted.

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

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

built data in 1.745652198791504 seconds

LR changed during epoch: 2.79e-04 -> 4.18e-04

total runtime to train this model was 26.595962285995483 seconds

Hyperparameteres for model 4 at epoch 28

lr: 0.0006955791925961341

weight_decay: 0.15

drop_path: 0.054143033554297844

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9264180660247803 seconds

Loss: 0.7574

Train Accuracy: 73.11%

Test Accuracy: 71.44%

Google Drive already mounted.

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

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

Time: 157.23s (Avg member: 31.45s)

Population Mean Accuracy: 70.27%

Best Member Accuracy: 71.44%

Mean Batch Size: 256

Mean Learning Rate: 3.85e-04

Mean Weight Decay: 0.106

=====

Epoch 29/70
=====

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

built data in 1.5891211032867432 seconds

LR changed during epoch: 1.37e-04 -> 1.33e-04

total runtime to train this model was 27.055469036102295 seconds

Hyperparameteres for model 0 at epoch 29

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4589974880218506 seconds

Loss: 0.8246

Train Accuracy: 70.96%

Test Accuracy: 70.66%

Google Drive already mounted.

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

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

built data in 1.6655545234680176 seconds

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

total runtime to train this model was 27.012422561645508 seconds

Hyperparameteres for model 1 at epoch 29

lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.42590069770813 seconds

Loss: 0.8149

Train Accuracy: 71.23%

Test Accuracy: 70.44%

Google Drive already mounted.

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

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

built data in 1.6143348217010498 seconds

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

total runtime to train this model was 27.067001342773438 seconds

Hyperparameteres for model 2 at epoch 29

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.648238182067871 seconds

Loss: 0.7186

Train Accuracy: 74.47%

Test Accuracy: 73.19%

Google Drive already mounted.

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

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

built data in 1.7555217742919922 seconds

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

total runtime to train this model was 26.335331916809082 seconds

Hyperparameteres for model 3 at epoch 29

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.531092882156372 seconds

Loss: 0.7794

Train Accuracy: 72.47%

Test Accuracy: 71.22%

Google Drive already mounted.

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

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

built data in 1.6040377616882324 seconds

LR changed during epoch: 4.18e-04 -> 5.57e-04

total runtime to train this model was 27.035330295562744 seconds

Hyperparameteres for model 4 at epoch 29

lr: 0.0006955791925961341

weight_decay: 0.15

drop_path: 0.054143033554297844

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4991064071655273 seconds

Loss: 0.7948

Train Accuracy: 71.93%

Test Accuracy: 70.25%

Google Drive already mounted.

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

=====
Epoch 29 Summary:

=====
Time: 157.57s (Avg member: 31.51s)

Population Mean Accuracy: 71.15%

Best Member Accuracy: 73.19%

Mean Batch Size: 256

Mean Learning Rate: 3.85e-04

Mean Weight Decay: 0.106

=====
Epoch 30/70

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

built data in 1.662351369857788 seconds

LR changed during epoch: 1.33e-04 -> 1.29e-04

total runtime to train this model was 27.23235559463501 seconds

Hyperparameteres for model 0 at epoch 30

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4292073249816895 seconds

Loss: 0.8083

Train Accuracy: 71.42%

Test Accuracy: 70.60%

Google Drive already mounted.

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

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

built data in 1.5957684516906738 seconds

LR changed during epoch: 1.83e-04 -> 1.77e-04

total runtime to train this model was 27.218482732772827 seconds

Hyperparameteres for model 1 at epoch 30

lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4444198608398438 seconds

Loss: 0.8013

Train Accuracy: 71.54%

Test Accuracy: 71.23%

Google Drive already mounted.

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

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

built data in 1.7402143478393555 seconds

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

total runtime to train this model was 26.64803409576416 seconds

Hyperparameteres for model 2 at epoch 30

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.597818613052368 seconds

Loss: 0.6977

Train Accuracy: 75.23%

Test Accuracy: 73.18%

Google Drive already mounted.

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

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

built data in 1.666825771331787 seconds

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

total runtime to train this model was 27.171060800552368 seconds

Hyperparameteres for model 3 at epoch 30

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5400547981262207 seconds

Loss: 0.7610

Train Accuracy: 73.20%

Test Accuracy: 71.84%

Google Drive already mounted.

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

--- Training Member 4 (Batch size: 256) ---
built data in 1.6358752250671387 seconds
LR changed during epoch: 5.57e-04 -> 6.96e-04
total runtime to train this model was 27.047728300094604 seconds
Hyperparameteres for model 4 at epoch 30
lr: 0.0006955791925961341

weight_decay: 0.15

drop_path: 0.054143033554297844

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4477696418762207 seconds
Loss: 0.8258
Train Accuracy: 70.80%
Test Accuracy: 67.36%

Google Drive already mounted.

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

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

=== PBT Exploit & Explore ===

Top performers: [73.18]

Bottom performers: [67.36]

Member 4: lr changed from 0.0006955791925961341 to 0.0005382532197187553

Member 4: drop_path changed from 0.054143033554297844 to 0.08283091615458608

Member 4 copied from 2

LR=5.38e-04, WD=0.150, DropPath=0.083, Warmup=5 epochs, Batch=256

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

Time: 158.36s (Avg member: 31.67s)
Population Mean Accuracy: 70.84%
Best Member Accuracy: 73.18%
Mean Batch Size: 256
Mean Learning Rate: 3.54e-04
Mean Weight Decay: 0.106

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.6275830268859863 seconds
LR changed during epoch: 1.29e-04 -> 1.24e-04
total runtime to train this model was 26.790762662887573 seconds
Hyperparameteres for model 0 at epoch 31
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3868157863616943 seconds

Loss: 0.7940

Train Accuracy: 71.83%

Test Accuracy: 71.06%

Google Drive already mounted.

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

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

built data in 1.6133909225463867 seconds

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

total runtime to train this model was 26.393059253692627 seconds

Hyperparameteres for model 1 at epoch 31

lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.810770273208618 seconds

Loss: 0.7867

Train Accuracy: 72.39%

Test Accuracy: 70.53%

Google Drive already mounted.

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

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

built data in 1.7881348133087158 seconds

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

total runtime to train this model was 25.539647579193115 seconds

Hyperparameteres for model 2 at epoch 31

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.5886929035186768 seconds

Loss: 0.6872

Train Accuracy: 75.51%

Test Accuracy: 73.46%

Google Drive already mounted.

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

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

built data in 1.5949552059173584 seconds

LR changed during epoch: 2.14e-04 -> 2.07e-04

total runtime to train this model was 26.80507493019104 seconds

Hyperparameteres for model 3 at epoch 31

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3225998878479004 seconds

Loss: 0.7425

Train Accuracy: 73.75%

Test Accuracy: 71.93%

Google Drive already mounted.

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

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

built data in 1.5908727645874023 seconds

LR changed during epoch: 5.49e-07 -> 1.08e-04

total runtime to train this model was 27.04171848297119 seconds

Hyperparameteres for model 4 at epoch 31

lr: 0.0005382532197187553

weight_decay: 0.15

drop_path: 0.08283091615458608

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3573315143585205 seconds

Loss: 0.6211

Train Accuracy: 77.83%

Test Accuracy: 74.98%

Google Drive already mounted.

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

=====
Epoch 31 Summary:

=====
Time: 155.54s (Avg member: 31.11s)

Population Mean Accuracy: 72.39%

Best Member Accuracy: 74.98%

Mean Batch Size: 256

Mean Learning Rate: 3.54e-04

Mean Weight Decay: 0.106

=====
Epoch 32/70

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

built data in 1.6561498641967773 seconds

LR changed during epoch: 1.24e-04 -> 1.20e-04

total runtime to train this model was 26.902039289474487 seconds

Hyperparameteres for model 0 at epoch 32

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.451385021209717 seconds

Loss: 0.7774

Train Accuracy: 72.28%

Test Accuracy: 71.32%

Google Drive already mounted.

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

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

built data in 1.6057722568511963 seconds

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

total runtime to train this model was 26.806615591049194 seconds

Hyperparameteres for model 1 at epoch 32

lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.865295648574829 seconds

Loss: 0.7720

Train Accuracy: 72.46%

Test Accuracy: 72.24%

Google Drive already mounted.

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

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

built data in 1.7757816314697266 seconds

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

total runtime to train this model was 26.494168519973755 seconds

Hyperparameteres for model 2 at epoch 32

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.0183022022247314 seconds

Loss: 0.6651

Train Accuracy: 76.42%

Test Accuracy: 73.93%

Google Drive already mounted.

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

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

built data in 1.6000926494598389 seconds
LR changed during epoch: 2.07e-04 -> 2.00e-04
total runtime to train this model was 26.847607612609863 seconds
Hyperparameteres for model 3 at epoch 32
lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3334367275238037 seconds

Loss: 0.7325

Train Accuracy: 74.02%

Test Accuracy: 72.85%

Google Drive already mounted.

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

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

built data in 1.576115608215332 seconds

LR changed during epoch: 1.08e-04 -> 2.16e-04

total runtime to train this model was 26.9211483001709 seconds

Hyperparameteres for model 4 at epoch 32

lr: 0.0005382532197187553

weight_decay: 0.15

drop_path: 0.08283091615458608

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.379542589187622 seconds

Loss: 0.6189

Train Accuracy: 77.99%

Test Accuracy: 74.81%

Google Drive already mounted.

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

=====
Epoch 32 Summary:

=====
Time: 156.46s (Avg member: 31.29s)

Population Mean Accuracy: 73.03%

Best Member Accuracy: 74.81%

Mean Batch Size: 256

Mean Learning Rate: 3.54e-04

Mean Weight Decay: 0.106

=====
Epoch 33/70

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

built data in 1.7135241031646729 seconds

LR changed during epoch: 1.20e-04 -> 1.16e-04

total runtime to train this model was 26.885151386260986 seconds

Hyperparameteres for model 0 at epoch 33

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3939967155456543 seconds

Loss: 0.7670

Train Accuracy: 72.79%

Test Accuracy: 71.84%

Google Drive already mounted.

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

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

built data in 1.6189601421356201 seconds

LR changed during epoch: 1.65e-04 -> 1.59e-04

total runtime to train this model was 26.72280526161194 seconds

Hyperparameteres for model 1 at epoch 33

lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.048548460006714 seconds

Loss: 0.7547

Train Accuracy: 73.49%

Test Accuracy: 71.72%

Google Drive already mounted.

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

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

built data in 1.777372121810913 seconds

LR changed during epoch: 2.94e-04 -> 2.83e-04

total runtime to train this model was 26.77775812149048 seconds

Hyperparameteres for model 2 at epoch 33

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.8647851943969727 seconds

Loss: 0.6459

Train Accuracy: 77.09%

Test Accuracy: 75.30%
Google Drive already mounted.
Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6511337757110596 seconds
LR changed during epoch: 2.00e-04 -> 1.92e-04
total runtime to train this model was 26.897056341171265 seconds
Hyperparameteres for model 3 at epoch 33
lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.3976590633392334 seconds
Loss: 0.7208
Train Accuracy: 74.32%
Test Accuracy: 72.37%

Google Drive already mounted.
Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.5890593528747559 seconds
LR changed during epoch: 2.16e-04 -> 3.24e-04
total runtime to train this model was 27.143640995025635 seconds
Hyperparameteres for model 4 at epoch 33
lr: 0.0005382532197187553

weight_decay: 0.15

drop_path: 0.08283091615458608

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4238574504852295 seconds
Loss: 0.6509
Train Accuracy: 77.01%
Test Accuracy: 72.69%

Google Drive already mounted.
Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 33 Summary:

=====
Time: 157.14s (Avg member: 31.43s)
Population Mean Accuracy: 72.78%
Best Member Accuracy: 75.30%
Mean Batch Size: 256
Mean Learning Rate: 3.54e-04
Mean Weight Decay: 0.106

=====
Epoch 34/70

=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.5902588367462158 seconds
LR changed during epoch: 1.16e-04 -> 1.11e-04
total runtime to train this model was 26.831336736679077 seconds
Hyperparameteres for model 0 at epoch 34
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.645470142364502 seconds

Loss: 0.7521

Train Accuracy: 73.49%

Test Accuracy: 72.45%

Google Drive already mounted.

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

--- Training Member 1 (Batch size: 256) ---
built data in 1.7446963787078857 seconds
LR changed during epoch: 1.59e-04 -> 1.53e-04
total runtime to train this model was 25.93005132675171 seconds
Hyperparameteres for model 1 at epoch 34
lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.585386276245117 seconds

Loss: 0.7367

Train Accuracy: 74.11%

Test Accuracy: 72.43%

Google Drive already mounted.

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

--- Training Member 2 (Batch size: 256) ---
built data in 1.6490375995635986 seconds
LR changed during epoch: 2.83e-04 -> 2.72e-04
total runtime to train this model was 26.982787370681763 seconds
Hyperparameteres for model 2 at epoch 34
lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.410782814025879 seconds

Loss: 0.6268

Train Accuracy: 77.88%

Test Accuracy: 75.16%

Google Drive already mounted.

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

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

built data in 1.6315486431121826 seconds

LR changed during epoch: 1.92e-04 -> 1.85e-04

total runtime to train this model was 26.535327196121216 seconds

Hyperparameteres for model 3 at epoch 34

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.393339157104492 seconds

Loss: 0.7012

Train Accuracy: 75.27%

Test Accuracy: 73.03%

Google Drive already mounted.

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

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

built data in 1.602170705795288 seconds

LR changed during epoch: 3.24e-04 -> 4.31e-04

total runtime to train this model was 26.95024275779724 seconds

Hyperparameteres for model 4 at epoch 34

lr: 0.0005382532197187553

weight_decay: 0.15

drop_path: 0.08283091615458608

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.537771224975586 seconds

Loss: 0.6829

Train Accuracy: 75.72%

Test Accuracy: 72.66%

Google Drive already mounted.

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

=====
Epoch 34 Summary:

=====
Time: 156.29s (Avg member: 31.26s)

Population Mean Accuracy: 73.15%

Best Member Accuracy: 75.16%

Mean Batch Size: 256

Mean Learning Rate: 3.54e-04
Mean Weight Decay: 0.106

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.6652817726135254 seconds
LR changed during epoch: 1.11e-04 -> 1.07e-04
total runtime to train this model was 26.792590856552124 seconds
Hyperparameteres for model 0 at epoch 35
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.199568748474121 seconds

Loss: 0.7391

Train Accuracy: 73.95%

Test Accuracy: 72.67%

Google Drive already mounted.

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

--- Training Member 1 (Batch size: 256) ---
built data in 1.7974331378936768 seconds
LR changed during epoch: 1.53e-04 -> 1.47e-04
total runtime to train this model was 26.998615503311157 seconds
Hyperparameteres for model 1 at epoch 35
lr: 0.0002610457762689696

weight_decay: 0.13313120688671945

drop_path: 0.11955409449658805

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.8174917697906494 seconds

Loss: 0.7285

Train Accuracy: 74.36%

Test Accuracy: 72.63%

Google Drive already mounted.

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

--- Training Member 2 (Batch size: 256) ---
built data in 1.5888898372650146 seconds
LR changed during epoch: 2.72e-04 -> 2.61e-04
total runtime to train this model was 26.887879848480225 seconds
Hyperparameteres for model 2 at epoch 35
lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.373497724533081 seconds

Loss: 0.6115

Train Accuracy: 78.31%

Test Accuracy: 74.89%

Google Drive already mounted.

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

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

built data in 1.5805835723876953 seconds

LR changed during epoch: 1.85e-04 -> 1.77e-04

total runtime to train this model was 27.034036874771118 seconds

Hyperparameteres for model 3 at epoch 35

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.434774398803711 seconds

Loss: 0.6809

Train Accuracy: 75.69%

Test Accuracy: 73.88%

Google Drive already mounted.

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

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

built data in 1.6287751197814941 seconds

LR changed during epoch: 4.31e-04 -> 5.38e-04

total runtime to train this model was 26.915204524993896 seconds

Hyperparameteres for model 4 at epoch 35

lr: 0.0005382532197187553

weight_decay: 0.15

drop_path: 0.08283091615458608

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3472375869750977 seconds

Loss: 0.7155

Train Accuracy: 74.78%

Test Accuracy: 72.74%

Google Drive already mounted.

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

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

=== PBT Exploit & Explore ===

Top performers: [74.89]

Bottom performers: [72.63]

Member 1: lr changed from 0.0002610457762689696 to 0.0002917661696515262

Member 1: weight_decay changed from 0.13313120688671945 to 0.1492908814828245

Member 1: drop_path changed from 0.11955409449658805 to 0.12393736897956506

Member 1 copied from 2

LR=2.92e-04, WD=0.149, DropPath=0.124, Warmup=5 epochs, Batch=256

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

Time: 157.39s (Avg member: 31.47s)

Population Mean Accuracy: 73.36%

Best Member Accuracy: 74.89%

Mean Batch Size: 256

Mean Learning Rate: 3.60e-04

Mean Weight Decay: 0.109

=====
Epoch 36/70
=====

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

built data in 1.7483758926391602 seconds

LR changed during epoch: 1.07e-04 -> 1.02e-04

total runtime to train this model was 26.286520957946777 seconds

Hyperparameteres for model 0 at epoch 36

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.5467441082000732 seconds

Loss: 0.7309

Train Accuracy: 74.09%

Test Accuracy: 72.42%

Google Drive already mounted.

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

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

built data in 1.5989840030670166 seconds

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

total runtime to train this model was 26.870638132095337 seconds

Hyperparameteres for model 1 at epoch 36

lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.406386375427246 seconds

Loss: 0.5528

Train Accuracy: 80.41%

Test Accuracy: 76.68%

Google Drive already mounted.

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

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

built data in 1.6308729648590088 seconds

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

total runtime to train this model was 27.024099588394165 seconds

Hyperparameteres for model 2 at epoch 36

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.420421600341797 seconds

Loss: 0.6000

Train Accuracy: 78.70%

Test Accuracy: 75.16%

Google Drive already mounted.

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

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

built data in 1.598823070526123 seconds

LR changed during epoch: 1.77e-04 -> 1.70e-04

total runtime to train this model was 26.65632438659668 seconds

Hyperparameteres for model 3 at epoch 36

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.6304738521575928 seconds

Loss: 0.6715

Train Accuracy: 76.11%

Test Accuracy: 72.90%

Google Drive already mounted.

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

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

built data in 1.5879158973693848 seconds

LR changed during epoch: 5.38e-04 -> 5.38e-04

total runtime to train this model was 26.771445751190186 seconds

Hyperparameteres for model 4 at epoch 36

lr: 0.0005382532197187553

weight_decay: 0.15

drop_path: 0.08283091615458608

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.127952814102173 seconds

Loss: 0.7316

Train Accuracy: 74.12%

Test Accuracy: 72.51%

Google Drive already mounted.

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

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

Time: 157.21s (Avg member: 31.44s)

Population Mean Accuracy: 73.93%

Best Member Accuracy: 76.68%

Mean Batch Size: 256

Mean Learning Rate: 3.60e-04

Mean Weight Decay: 0.109

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

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

built data in 1.7763936519622803 seconds

LR changed during epoch: 1.02e-04 -> 9.75e-05

total runtime to train this model was 25.615185022354126 seconds

Hyperparameteres for model 0 at epoch 37

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.7869155406951904 seconds

Loss: 0.7153

Train Accuracy: 74.68%

Test Accuracy: 74.06%

Google Drive already mounted.

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

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

built data in 1.6520538330078125 seconds

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

total runtime to train this model was 27.39937949180603 seconds

Hyperparameteres for model 1 at epoch 37

lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.7185609340667725 seconds

Loss: 0.5280

Train Accuracy: 81.48%

Test Accuracy: 76.44%

Google Drive already mounted.

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

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

built data in 1.5986554622650146 seconds

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

total runtime to train this model was 26.662447214126587 seconds

Hyperparameteres for model 2 at epoch 37

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4133760929107666 seconds

Loss: 0.5801

Train Accuracy: 79.48%

Test Accuracy: 75.00%

Google Drive already mounted.

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

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

built data in 1.6016132831573486 seconds

LR changed during epoch: 1.70e-04 -> 1.62e-04

total runtime to train this model was 27.022576093673706 seconds

Hyperparameteres for model 3 at epoch 37

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3565704822540283 seconds

Loss: 0.6549

Train Accuracy: 76.86%

Test Accuracy: 74.25%

Google Drive already mounted.

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

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

built data in 1.7584242820739746 seconds

LR changed during epoch: 5.38e-04 -> 5.37e-04

total runtime to train this model was 26.59842801094055 seconds

Hyperparameteres for model 4 at epoch 37
lr: 0.0005382532197187553

weight_decay: 0.15

drop_path: 0.08283091615458608

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.614881753921509 seconds

Loss: 0.7126

Train Accuracy: 74.47%

Test Accuracy: 72.50%

Google Drive already mounted.

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

=====
Epoch 37 Summary:
=====

Time: 158.04s (Avg member: 31.61s)

Population Mean Accuracy: 74.45%

Best Member Accuracy: 76.44%

Mean Batch Size: 256

Mean Learning Rate: 3.60e-04

Mean Weight Decay: 0.109
=====

Epoch 38/70
=====

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

built data in 1.6835715770721436 seconds

LR changed during epoch: 9.75e-05 -> 9.29e-05

total runtime to train this model was 28.238497734069824 seconds

Hyperparameteres for model 0 at epoch 38

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.553875684738159 seconds

Loss: 0.7017

Train Accuracy: 75.20%

Test Accuracy: 74.08%

Google Drive already mounted.

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

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

built data in 1.6729886531829834 seconds

LR changed during epoch: 1.17e-04 -> 1.75e-04

total runtime to train this model was 27.697096824645996 seconds

Hyperparameteres for model 1 at epoch 38

lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4663283824920654 seconds

Loss: 0.5393

Train Accuracy: 80.92%

Test Accuracy: 76.79%

Google Drive already mounted.

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

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

built data in 1.6426501274108887 seconds

LR changed during epoch: 2.39e-04 -> 2.28e-04

total runtime to train this model was 27.746376991271973 seconds

Hyperparameteres for model 2 at epoch 38

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.943068265914917 seconds

Loss: 0.5635

Train Accuracy: 79.89%

Test Accuracy: 76.14%

Google Drive already mounted.

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

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

built data in 1.7479772567749023 seconds

LR changed during epoch: 1.62e-04 -> 1.54e-04

total runtime to train this model was 27.097199201583862 seconds

Hyperparameteres for model 3 at epoch 38

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.921597957611084 seconds

Loss: 0.6423

Train Accuracy: 77.17%

Test Accuracy: 73.96%

Google Drive already mounted.

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

--- Training Member 4 (Batch size: 256) ---
built data in 1.6109058856964111 seconds
LR changed during epoch: 5.37e-04 -> 5.35e-04
total runtime to train this model was 26.999025106430054 seconds
Hyperparameteres for model 4 at epoch 38
lr: 0.0005382532197187553

weight_decay: 0.15

drop_path: 0.08283091615458608

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.477135181427002 seconds

Loss: 0.7137

Train Accuracy: 74.82%

Test Accuracy: 72.81%

Google Drive already mounted.

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

=====
Epoch 38 Summary:

=====
Time: 160.84s (Avg member: 32.17s)

Population Mean Accuracy: 74.76%

Best Member Accuracy: 76.79%

Mean Batch Size: 256

Mean Learning Rate: 3.60e-04

Mean Weight Decay: 0.109
=====

Epoch 39/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.6117923259735107 seconds
LR changed during epoch: 9.29e-05 -> 8.84e-05
total runtime to train this model was 27.499067544937134 seconds
Hyperparameteres for model 0 at epoch 39
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5226781368255615 seconds

Loss: 0.6918

Train Accuracy: 75.42%

Test Accuracy: 73.10%

Google Drive already mounted.

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

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

built data in 1.6031293869018555 seconds
LR changed during epoch: 1.75e-04 -> 2.34e-04
total runtime to train this model was 27.161099433898926 seconds
Hyperparameteres for model 1 at epoch 39
lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5918169021606445 seconds

Loss: 0.5536

Train Accuracy: 80.53%

Test Accuracy: 75.72%

Google Drive already mounted.

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

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

built data in 1.8214075565338135 seconds

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

total runtime to train this model was 26.312769174575806 seconds

Hyperparameteres for model 2 at epoch 39

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.3967010974884033 seconds

Loss: 0.5456

Train Accuracy: 80.44%

Test Accuracy: 75.97%

Google Drive already mounted.

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

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

built data in 1.5802762508392334 seconds

LR changed during epoch: 1.54e-04 -> 1.47e-04

total runtime to train this model was 27.009093046188354 seconds

Hyperparameteres for model 3 at epoch 39

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4912056922912598 seconds

Loss: 0.6300
Train Accuracy: 77.57%
Test Accuracy: 74.27%
Google Drive already mounted.
Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.6251068115234375 seconds
LR changed during epoch: 5.35e-04 -> 5.33e-04
total runtime to train this model was 27.174301385879517 seconds
Hyperparameteres for model 4 at epoch 39
lr: 0.0005382532197187553

weight_decay: 0.15

drop_path: 0.08283091615458608

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4173367023468018 seconds

Loss: 0.6935
Train Accuracy: 75.42%
Test Accuracy: 73.18%
Google Drive already mounted.
Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

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

Time: 158.09s (Avg member: 31.62s)
Population Mean Accuracy: 74.45%
Best Member Accuracy: 75.97%
Mean Batch Size: 256
Mean Learning Rate: 3.60e-04
Mean Weight Decay: 0.109

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.6845993995666504 seconds
LR changed during epoch: 8.84e-05 -> 8.38e-05
total runtime to train this model was 26.943735122680664 seconds
Hyperparameteres for model 0 at epoch 40
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4617488384246826 seconds

Loss: 0.6805
Train Accuracy: 75.85%

Test Accuracy: 73.76%

Google Drive already mounted.

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

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

built data in 1.6351284980773926 seconds

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

total runtime to train this model was 26.45268750190735 seconds

Hyperparameteres for model 1 at epoch 40

lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.141049385070801 seconds

Loss: 0.5703

Train Accuracy: 79.82%

Test Accuracy: 75.38%

Google Drive already mounted.

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

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

built data in 1.7089850902557373 seconds

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

total runtime to train this model was 26.57060480117798 seconds

Hyperparameteres for model 2 at epoch 40

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.0846099853515625 seconds

Loss: 0.5254

Train Accuracy: 81.35%

Test Accuracy: 76.15%

Google Drive already mounted.

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

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

built data in 1.6308887004852295 seconds

LR changed during epoch: 1.47e-04 -> 1.39e-04

total runtime to train this model was 26.9170663356781 seconds

Hyperparameteres for model 3 at epoch 40

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.519878387451172 seconds

Loss: 0.6200

Train Accuracy: 78.20%

Test Accuracy: 75.21%

Google Drive already mounted.

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

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

built data in 1.5957281589508057 seconds

LR changed during epoch: 5.33e-04 -> 5.30e-04

total runtime to train this model was 27.15422558784485 seconds

Hyperparameteres for model 4 at epoch 40

lr: 0.0005382532197187553

weight_decay: 0.15

drop_path: 0.08283091615458608

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4733030796051025 seconds

Loss: 0.6762

Train Accuracy: 76.00%

Test Accuracy: 73.44%

Google Drive already mounted.

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

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

=== PBT Exploit & Explore ===

Top performers: [76.15]

Bottom performers: [73.44]

Member 4: lr changed from 0.0005382532197187553 to 0.000814057173087146

Member 4: drop_path changed from 0.08283091615458608 to 0.10860636912104994

Member 4 copied from 2

LR=8.14e-04, WD=0.150, DropPath=0.109, Warmup=5 epochs, Batch=256

=====
Epoch 40 Summary:

=====
Time: 157.31s (Avg member: 31.46s)

Population Mean Accuracy: 74.79%

Best Member Accuracy: 76.15%

Mean Batch Size: 256

Mean Learning Rate: 4.15e-04

Mean Weight Decay: 0.109

=====
Epoch 41/70

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

built data in 1.5793404579162598 seconds

LR changed during epoch: 8.38e-05 -> 7.93e-05

total runtime to train this model was 27.142991542816162 seconds

Hyperparameteres for model 0 at epoch 41
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5324578285217285 seconds

Loss: 0.6675

Train Accuracy: 76.42%

Test Accuracy: 74.26%

Google Drive already mounted.

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

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

built data in 1.7564091682434082 seconds

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

total runtime to train this model was 26.47004199028015 seconds

Hyperparameteres for model 1 at epoch 41

lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.5452685356140137 seconds

Loss: 0.5820

Train Accuracy: 79.23%

Test Accuracy: 75.80%

Google Drive already mounted.

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

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

built data in 1.6396477222442627 seconds

LR changed during epoch: 2.05e-04 -> 1.94e-04

total runtime to train this model was 27.361223459243774 seconds

Hyperparameteres for model 2 at epoch 41

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4709177017211914 seconds

Loss: 0.5012

Train Accuracy: 82.22%

Test Accuracy: 75.41%

Google Drive already mounted.

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

--- Training Member 3 (Batch size: 256) ---
built data in 1.5976192951202393 seconds
LR changed during epoch: 1.39e-04 -> 1.32e-04
total runtime to train this model was 27.387685775756836 seconds
Hyperparameteres for model 3 at epoch 41
lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.458076238632202 seconds

Loss: 0.6061

Train Accuracy: 78.35%

Test Accuracy: 75.54%

Google Drive already mounted.

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

--- Training Member 4 (Batch size: 256) ---
built data in 1.6283540725708008 seconds
LR changed during epoch: 8.31e-07 -> 1.64e-04
total runtime to train this model was 27.21804976463318 seconds
Hyperparameteres for model 4 at epoch 41
lr: 0.000814057173087146

weight_decay: 0.15

drop_path: 0.10860636912104994

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3923797607421875 seconds

Loss: 0.4696

Train Accuracy: 83.25%

Test Accuracy: 76.65%

Google Drive already mounted.

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

=====
Epoch 41 Summary:

=====
Time: 158.53s (Avg member: 31.71s)

Population Mean Accuracy: 75.53%

Best Member Accuracy: 76.65%

Mean Batch Size: 256

Mean Learning Rate: 4.15e-04

Mean Weight Decay: 0.109

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.7822136878967285 seconds
LR changed during epoch: 7.93e-05 -> 7.49e-05
total runtime to train this model was 26.383082151412964 seconds
Hyperparameteres for model 0 at epoch 42
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.553788661956787 seconds

Loss: 0.6626

Train Accuracy: 76.55%

Test Accuracy: 74.50%

Google Drive already mounted.

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

--- Training Member 1 (Batch size: 256) ---
built data in 1.6970698833465576 seconds
LR changed during epoch: 2.92e-04 -> 2.91e-04
total runtime to train this model was 26.99199414253235 seconds
Hyperparameteres for model 1 at epoch 42
lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3095502853393555 seconds

Loss: 0.5690

Train Accuracy: 79.71%

Test Accuracy: 75.35%

Google Drive already mounted.

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

--- Training Member 2 (Batch size: 256) ---
built data in 1.5954906940460205 seconds
LR changed during epoch: 1.94e-04 -> 1.83e-04
total runtime to train this model was 27.199894189834595 seconds
Hyperparameteres for model 2 at epoch 42
lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4544436931610107 seconds

Loss: 0.4926

Train Accuracy: 82.34%

Test Accuracy: 76.43%

Google Drive already mounted.

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

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

built data in 1.6189558506011963 seconds

LR changed during epoch: 1.32e-04 -> 1.24e-04

total runtime to train this model was 27.023197174072266 seconds

Hyperparameteres for model 3 at epoch 42

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.433436393737793 seconds

Loss: 0.5938

Train Accuracy: 79.01%

Test Accuracy: 76.12%

Google Drive already mounted.

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

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

built data in 1.714064359664917 seconds

LR changed during epoch: 1.64e-04 -> 3.26e-04

total runtime to train this model was 26.734004735946655 seconds

Hyperparameteres for model 4 at epoch 42

lr: 0.000814057173087146

weight_decay: 0.15

drop_path: 0.10860636912104994

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.2780442237854004 seconds

Loss: 0.5156

Train Accuracy: 81.57%

Test Accuracy: 75.58%

Google Drive already mounted.

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

=====
Epoch 42 Summary:

=====
Time: 158.19s (Avg member: 31.64s)

Population Mean Accuracy: 75.60%

Best Member Accuracy: 76.43%

Mean Batch Size: 256

Mean Learning Rate: 4.15e-04

Mean Weight Decay: 0.109

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.6875073909759521 seconds
LR changed during epoch: 7.49e-05 -> 7.04e-05
total runtime to train this model was 27.07613468170166 seconds
Hyperparameteres for model 0 at epoch 43
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.70471453666687 seconds

Loss: 0.6517

Train Accuracy: 76.92%

Test Accuracy: 74.82%

Google Drive already mounted.

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

--- Training Member 1 (Batch size: 256) ---
built data in 1.5913949012756348 seconds
LR changed during epoch: 2.91e-04 -> 2.90e-04
total runtime to train this model was 27.46208882331848 seconds
Hyperparameteres for model 1 at epoch 43
lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4418694972991943 seconds

Loss: 0.5698

Train Accuracy: 79.51%

Test Accuracy: 75.78%

Google Drive already mounted.

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

--- Training Member 2 (Batch size: 256) ---
built data in 1.5983619689941406 seconds
LR changed during epoch: 1.83e-04 -> 1.72e-04
total runtime to train this model was 27.114315271377563 seconds
Hyperparameteres for model 2 at epoch 43
lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.370434284210205 seconds

Loss: 0.4780

Train Accuracy: 82.83%

Test Accuracy: 76.77%

Google Drive already mounted.

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

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

built data in 1.6318769454956055 seconds

LR changed during epoch: 1.24e-04 -> 1.17e-04

total runtime to train this model was 27.309317111968994 seconds

Hyperparameteres for model 3 at epoch 43

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.1968979835510254 seconds

Loss: 0.5783

Train Accuracy: 79.64%

Test Accuracy: 76.00%

Google Drive already mounted.

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

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

built data in 1.8367841243743896 seconds

LR changed during epoch: 3.26e-04 -> 4.89e-04

total runtime to train this model was 26.850942134857178 seconds

Hyperparameteres for model 4 at epoch 43

lr: 0.000814057173087146

weight_decay: 0.15

drop_path: 0.10860636912104994

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.7446987628936768 seconds

Loss: 0.5910

Train Accuracy: 78.98%

Test Accuracy: 73.85%

Google Drive already mounted.

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

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

Time: 158.92s (Avg member: 31.78s)
Population Mean Accuracy: 75.44%
Best Member Accuracy: 76.77%
Mean Batch Size: 256
Mean Learning Rate: 4.15e-04
Mean Weight Decay: 0.109

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.592057466506958 seconds
LR changed during epoch: 7.04e-05 -> 6.61e-05
total runtime to train this model was 26.965107440948486 seconds
Hyperparameteres for model 0 at epoch 44
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.472856044769287 seconds

Loss: 0.6326

Train Accuracy: 77.54%

Test Accuracy: 74.84%

Google Drive already mounted.

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

--- Training Member 1 (Batch size: 256) ---
built data in 1.5958430767059326 seconds
LR changed during epoch: 2.90e-04 -> 2.89e-04
total runtime to train this model was 27.275333404541016 seconds
Hyperparameteres for model 1 at epoch 44
lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.480389356613159 seconds

Loss: 0.5581

Train Accuracy: 80.29%

Test Accuracy: 75.37%

Google Drive already mounted.

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

--- Training Member 2 (Batch size: 256) ---
built data in 1.5883855819702148 seconds
LR changed during epoch: 1.72e-04 -> 1.62e-04
total runtime to train this model was 27.308022260665894 seconds
Hyperparameteres for model 2 at epoch 44

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.708098888397217 seconds

Loss: 0.4555

Train Accuracy: 83.87%

Test Accuracy: 76.87%

Google Drive already mounted.

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

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

built data in 1.7260141372680664 seconds

LR changed during epoch: 1.17e-04 -> 1.10e-04

total runtime to train this model was 26.602866411209106 seconds

Hyperparameteres for model 3 at epoch 44

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.3589072227478027 seconds

Loss: 0.5670

Train Accuracy: 79.93%

Test Accuracy: 75.81%

Google Drive already mounted.

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

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

built data in 1.60235595703125 seconds

LR changed during epoch: 4.89e-04 -> 6.52e-04

total runtime to train this model was 27.33780550956726 seconds

Hyperparameteres for model 4 at epoch 44

lr: 0.000814057173087146

weight_decay: 0.15

drop_path: 0.10860636912104994

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4025614261627197 seconds

Loss: 0.6508

Train Accuracy: 76.93%

Test Accuracy: 73.36%

Google Drive already mounted.

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

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

Time: 158.38s (Avg member: 31.68s)
Population Mean Accuracy: 75.25%
Best Member Accuracy: 76.87%
Mean Batch Size: 256
Mean Learning Rate: 4.15e-04
Mean Weight Decay: 0.109

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.7062551975250244 seconds
LR changed during epoch: 6.61e-05 -> 6.18e-05
total runtime to train this model was 27.13715672492981 seconds
Hyperparameteres for model 0 at epoch 45
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.439931631088257 seconds

Loss: 0.6288

Train Accuracy: 77.74%

Test Accuracy: 75.37%

Google Drive already mounted.

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

--- Training Member 1 (Batch size: 256) ---
built data in 1.6050865650177002 seconds
LR changed during epoch: 2.89e-04 -> 2.88e-04
total runtime to train this model was 27.0679132938385 seconds
Hyperparameteres for model 1 at epoch 45
lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4881858825683594 seconds

Loss: 0.5487

Train Accuracy: 80.50%

Test Accuracy: 75.48%

Google Drive already mounted.

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

--- Training Member 2 (Batch size: 256) ---
built data in 1.8075494766235352 seconds
LR changed during epoch: 1.62e-04 -> 1.51e-04
total runtime to train this model was 26.084598779678345 seconds
Hyperparameteres for model 2 at epoch 45
lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.636582612991333 seconds

Loss: 0.4385

Train Accuracy: 84.41%

Test Accuracy: 76.35%

Google Drive already mounted.

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

--- Training Member 3 (Batch size: 256) ---
built data in 1.6358389854431152 seconds
LR changed during epoch: 1.10e-04 -> 1.02e-04
total runtime to train this model was 27.57584261894226 seconds
Hyperparameteres for model 3 at epoch 45
lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.624830484390259 seconds

Loss: 0.5540

Train Accuracy: 80.28%

Test Accuracy: 76.68%

Google Drive already mounted.

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

--- Training Member 4 (Batch size: 256) ---
built data in 1.6029722690582275 seconds
LR changed during epoch: 6.52e-04 -> 8.14e-04
total runtime to train this model was 27.61677312850952 seconds
Hyperparameteres for model 4 at epoch 45
lr: 0.000814057173087146

weight_decay: 0.15

drop_path: 0.10860636912104994

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4571242332458496 seconds

Loss: 0.7105

Train Accuracy: 74.81%

Test Accuracy: 70.22%

Google Drive already mounted.

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

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

=== PBT Exploit & Explore ===

Top performers: [76.68]

Bottom performers: [70.22]

Member 4: lr changed from 0.000814057173087146 to 0.0005490509045947225

Member 4: drop_path changed from 0.10860636912104994 to 0.07075427356242567

Member 4 copied from 3

LR=5.49e-04, WD=0.150, DropPath=0.071, Warmup=5 epochs, Batch=256

=====
Epoch 45 Summary:

=====
Time: 158.84s (Avg member: 31.77s)

Population Mean Accuracy: 74.82%

Best Member Accuracy: 76.68%

Mean Batch Size: 256

Mean Learning Rate: 3.62e-04

Mean Weight Decay: 0.109

=====
Epoch 46/70

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

built data in 1.6613059043884277 seconds

LR changed during epoch: 6.18e-05 -> 5.76e-05

total runtime to train this model was 27.122599840164185 seconds

Hyperparameteres for model 0 at epoch 46

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4557323455810547 seconds

Loss: 0.6171

Train Accuracy: 77.95%

Test Accuracy: 75.68%

Google Drive already mounted.

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

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

built data in 1.7944610118865967 seconds

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

total runtime to train this model was 26.53636074066162 seconds

Hyperparameteres for model 1 at epoch 46

lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.629004716873169 seconds

Loss: 0.5379

Train Accuracy: 81.00%

Test Accuracy: 75.56%

Google Drive already mounted.

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

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

built data in 1.607574462890625 seconds

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

total runtime to train this model was 27.09400987625122 seconds

Hyperparameteres for model 2 at epoch 46

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4310197830200195 seconds

Loss: 0.4240

Train Accuracy: 84.86%

Test Accuracy: 77.52%

Google Drive already mounted.

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

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

built data in 1.5986578464508057 seconds

LR changed during epoch: 1.02e-04 -> 9.54e-05

total runtime to train this model was 27.093619346618652 seconds

Hyperparameteres for model 3 at epoch 46

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4262619018554688 seconds

Loss: 0.5353

Train Accuracy: 80.99%

Test Accuracy: 76.40%

Google Drive already mounted.

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

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

built data in 1.5980877876281738 seconds
LR changed during epoch: 5.60e-07 -> 1.10e-04
total runtime to train this model was 27.180726528167725 seconds
Hyperparameteres for model 4 at epoch 46
lr: 0.0005490509045947225

weight_decay: 0.15

drop_path: 0.07075427356242567

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3641088008880615 seconds

Loss: 0.5248

Train Accuracy: 81.41%

Test Accuracy: 76.29%

Google Drive already mounted.

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

=====
Epoch 46 Summary:

=====
Time: 157.86s (Avg member: 31.57s)

Population Mean Accuracy: 76.29%

Best Member Accuracy: 77.52%

Mean Batch Size: 256

Mean Learning Rate: 3.62e-04

Mean Weight Decay: 0.109

=====
Epoch 47/70

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

built data in 1.6215243339538574 seconds

LR changed during epoch: 5.76e-05 -> 5.34e-05

total runtime to train this model was 27.10646653175354 seconds

Hyperparameteres for model 0 at epoch 47

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.553020477294922 seconds

Loss: 0.6048

Train Accuracy: 78.51%

Test Accuracy: 75.54%

Google Drive already mounted.

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

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

built data in 1.7554166316986084 seconds

LR changed during epoch: 2.86e-04 -> 2.84e-04

total runtime to train this model was 26.62621760368347 seconds

Hyperparameteres for model 1 at epoch 47

lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.489476203918457 seconds

Loss: 0.5340

Train Accuracy: 80.95%

Test Accuracy: 76.20%

Google Drive already mounted.

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

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

built data in 1.623410701751709 seconds

LR changed during epoch: 1.41e-04 -> 1.30e-04

total runtime to train this model was 27.21786642074585 seconds

Hyperparameteres for model 2 at epoch 47

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.392439126968384 seconds

Loss: 0.4123

Train Accuracy: 85.27%

Test Accuracy: 77.45%

Google Drive already mounted.

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

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

built data in 1.602623701095581 seconds

LR changed during epoch: 9.54e-05 -> 8.85e-05

total runtime to train this model was 27.29432225227356 seconds

Hyperparameteres for model 3 at epoch 47

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3602676391601562 seconds

Loss: 0.5290

Train Accuracy: 81.28%

Test Accuracy: 76.22%
Google Drive already mounted.
Member 3: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_3_seed_38042.pt

--- Training Member 4 (Batch size: 256) ---
built data in 1.621694564819336 seconds
LR changed during epoch: 1.10e-04 -> 2.20e-04
total runtime to train this model was 27.08141827583313 seconds
Hyperparameteres for model 4 at epoch 47
lr: 0.0005490509045947225

weight_decay: 0.15

drop_path: 0.07075427356242567

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4465980529785156 seconds

Loss: 0.5729
Train Accuracy: 79.69%
Test Accuracy: 74.99%

Google Drive already mounted.
Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 47 Summary:

=====
Time: 158.07s (Avg member: 31.61s)
Population Mean Accuracy: 76.08%
Best Member Accuracy: 77.45%
Mean Batch Size: 256
Mean Learning Rate: 3.62e-04
Mean Weight Decay: 0.109

=====
Epoch 48/70

=====
--- Training Member 0 (Batch size: 256) ---
built data in 1.7619998455047607 seconds
LR changed during epoch: 5.34e-05 -> 4.94e-05
total runtime to train this model was 26.286309003829956 seconds
Hyperparameteres for model 0 at epoch 48
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.4368677139282227 seconds

Loss: 0.5954
Train Accuracy: 78.72%
Test Accuracy: 75.79%

Google Drive already mounted.

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

--- Training Member 1 (Batch size: 256) ---
built data in 1.6664514541625977 seconds
LR changed during epoch: 2.84e-04 -> 2.81e-04
total runtime to train this model was 27.1934871673584 seconds
Hyperparameteres for model 1 at epoch 48
lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4485316276550293 seconds
Loss: 0.5198
Train Accuracy: 81.69%
Test Accuracy: 76.99%

Google Drive already mounted.

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

--- Training Member 2 (Batch size: 256) ---
built data in 1.608733892440796 seconds
LR changed during epoch: 1.30e-04 -> 1.20e-04
total runtime to train this model was 27.29834222793579 seconds
Hyperparameteres for model 2 at epoch 48
lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.419417381286621 seconds
Loss: 0.3951
Train Accuracy: 86.02%
Test Accuracy: 77.56%

Google Drive already mounted.

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

--- Training Member 3 (Batch size: 256) ---
built data in 1.620063066482544 seconds
LR changed during epoch: 8.85e-05 -> 8.18e-05
total runtime to train this model was 27.004109382629395 seconds
Hyperparameteres for model 3 at epoch 48
lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4065093994140625 seconds

Loss: 0.5166

Train Accuracy: 81.72%

Test Accuracy: 76.56%

Google Drive already mounted.

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

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

built data in 1.6290819644927979 seconds

LR changed during epoch: 2.20e-04 -> 3.30e-04

total runtime to train this model was 26.678534030914307 seconds

Hyperparameteres for model 4 at epoch 48

lr: 0.0005490509045947225

weight_decay: 0.15

drop_path: 0.07075427356242567

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.3010120391845703 seconds

Loss: 0.6439

Train Accuracy: 77.05%

Test Accuracy: 72.82%

Google Drive already mounted.

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

=====
Epoch 48 Summary:

=====
Time: 158.14s (Avg member: 31.63s)

Population Mean Accuracy: 75.94%

Best Member Accuracy: 77.56%

Mean Batch Size: 256

Mean Learning Rate: 3.62e-04

Mean Weight Decay: 0.109

=====
Epoch 49/70

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

built data in 1.7733526229858398 seconds

LR changed during epoch: 4.94e-05 -> 4.55e-05

total runtime to train this model was 27.008078575134277 seconds

Hyperparameteres for model 0 at epoch 49

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.6002368927001953 seconds

Loss: 0.5851

Train Accuracy: 79.30%

Test Accuracy: 75.39%

Google Drive already mounted.

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

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

built data in 1.6418404579162598 seconds

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

total runtime to train this model was 27.086145401000977 seconds

Hyperparameteres for model 1 at epoch 49

lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.421322822570801 seconds

Loss: 0.5068

Train Accuracy: 81.87%

Test Accuracy: 76.24%

Google Drive already mounted.

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

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

built data in 1.6198172569274902 seconds

LR changed during epoch: 1.20e-04 -> 1.11e-04

total runtime to train this model was 27.281861782073975 seconds

Hyperparameteres for model 2 at epoch 49

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.416116714477539 seconds

Loss: 0.3802

Train Accuracy: 86.54%

Test Accuracy: 78.27%

Google Drive already mounted.

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

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

built data in 1.6089110374450684 seconds

LR changed during epoch: 8.18e-05 -> 7.53e-05

total runtime to train this model was 27.463216304779053 seconds

Hyperparameteres for model 3 at epoch 49

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.959153890609741 seconds

Loss: 0.5074

Train Accuracy: 81.96%

Test Accuracy: 76.86%

Google Drive already mounted.

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

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

built data in 1.7557623386383057 seconds

LR changed during epoch: 3.30e-04 -> 4.40e-04

total runtime to train this model was 26.85920786857605 seconds

Hyperparameteres for model 4 at epoch 49

lr: 0.0005490509045947225

weight_decay: 0.15

drop_path: 0.07075427356242567

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.1807336807250977 seconds

Loss: 0.6955

Train Accuracy: 75.26%

Test Accuracy: 72.64%

Google Drive already mounted.

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

=====
Epoch 49 Summary:

=====
Time: 158.99s (Avg member: 31.80s)

Population Mean Accuracy: 75.88%

Best Member Accuracy: 78.27%

Mean Batch Size: 256

Mean Learning Rate: 3.62e-04

Mean Weight Decay: 0.109

=====
Epoch 50/70

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

built data in 1.5912272930145264 seconds

LR changed during epoch: 4.55e-05 -> 4.17e-05

total runtime to train this model was 27.286210298538208 seconds

Hyperparameteres for model 0 at epoch 50

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5171046257019043 seconds

Loss: 0.5750

Train Accuracy: 79.56%

Test Accuracy: 75.94%

Google Drive already mounted.

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

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

built data in 1.6061880588531494 seconds

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

total runtime to train this model was 27.264769792556763 seconds

Hyperparameteres for model 1 at epoch 50

lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.441418170928955 seconds

Loss: 0.4998

Train Accuracy: 82.13%

Test Accuracy: 77.09%

Google Drive already mounted.

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

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

built data in 1.630253553390503 seconds

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

total runtime to train this model was 27.014489889144897 seconds

Hyperparameteres for model 2 at epoch 50

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.0321364402770996 seconds

Loss: 0.3652

Train Accuracy: 87.07%

Test Accuracy: 77.56%

Google Drive already mounted.

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

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

built data in 1.8252320289611816 seconds

LR changed during epoch: 7.53e-05 -> 6.89e-05

total runtime to train this model was 26.473478078842163 seconds

Hyperparameteres for model 3 at epoch 50
lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.0837881565093994 seconds

Loss: 0.4927

Train Accuracy: 82.62%

Test Accuracy: 76.78%

Google Drive already mounted.

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

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

built data in 1.5788798332214355 seconds

LR changed during epoch: 4.40e-04 -> 5.49e-04

total runtime to train this model was 27.307306051254272 seconds

Hyperparameteres for model 4 at epoch 50

lr: 0.0005490509045947225

weight_decay: 0.15

drop_path: 0.07075427356242567

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5472934246063232 seconds

Loss: 0.7419

Train Accuracy: 73.72%

Test Accuracy: 72.02%

Google Drive already mounted.

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

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

=== PBT Exploit & Explore ===

Top performers: [77.56]

Bottom performers: [72.02]

Member 4: lr changed from 0.0005490509045947225 to 0.0006394089985257994

Member 4: weight_decay changed from 0.15 to 0.14081027580272165

Member 4: drop_path changed from 0.07075427356242567 to 0.03386731909094103

Member 4 copied from 2

LR=6.39e-04, WD=0.141, DropPath=0.034, Warmup=5 epochs, Batch=256

=====
Epoch 50 Summary:

=====
Time: 158.51s (Avg member: 31.70s)

Population Mean Accuracy: 75.88%

Best Member Accuracy: 77.56%

Mean Batch Size: 256

Mean Learning Rate: 3.80e-04

Mean Weight Decay: 0.107

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.604186773300171 seconds
LR changed during epoch: 4.17e-05 -> 3.80e-05
total runtime to train this model was 27.35431742668152 seconds
Hyperparameteres for model 0 at epoch 51
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.43447208404541 seconds

Loss: 0.5634

Train Accuracy: 80.08%

Test Accuracy: 76.03%

Google Drive already mounted.

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

--- Training Member 1 (Batch size: 256) ---
built data in 1.6191675662994385 seconds
LR changed during epoch: 2.75e-04 -> 2.72e-04
total runtime to train this model was 27.21503472328186 seconds
Hyperparameteres for model 1 at epoch 51
lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.978219985961914 seconds

Loss: 0.4948

Train Accuracy: 82.29%

Test Accuracy: 76.38%

Google Drive already mounted.

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

--- Training Member 2 (Batch size: 256) ---
built data in 1.8393034934997559 seconds
LR changed during epoch: 1.01e-04 -> 9.23e-05
total runtime to train this model was 26.596896171569824 seconds
Hyperparameteres for model 2 at epoch 51
lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.227391242980957 seconds

Loss: 0.3496

Train Accuracy: 87.43%

Test Accuracy: 77.90%

Google Drive already mounted.

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

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

built data in 1.608349084854126 seconds

LR changed during epoch: 6.89e-05 -> 6.28e-05

total runtime to train this model was 27.125725030899048 seconds

Hyperparameteres for model 3 at epoch 51

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.32220721244812 seconds

Loss: 0.4831

Train Accuracy: 82.86%

Test Accuracy: 77.71%

Google Drive already mounted.

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

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

built data in 1.5900216102600098 seconds

LR changed during epoch: 6.52e-07 -> 1.29e-04

total runtime to train this model was 27.15644145011902 seconds

Hyperparameteres for model 4 at epoch 51

lr: 0.0006394089985257994

weight_decay: 0.14081027580272165

drop_path: 0.03386731909094103

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4884543418884277 seconds

Loss: 0.3433

Train Accuracy: 87.89%

Test Accuracy: 77.73%

Google Drive already mounted.

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

=====
Epoch 51 Summary:

=====
Time: 158.45s (Avg member: 31.69s)

Population Mean Accuracy: 77.15%
Best Member Accuracy: 77.90%
Mean Batch Size: 256
Mean Learning Rate: 3.80e-04
Mean Weight Decay: 0.107

=====
Epoch 52/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.597010850906372 seconds
LR changed during epoch: 3.80e-05 -> 3.44e-05
total runtime to train this model was 27.133842945098877 seconds
Hyperparameteres for model 0 at epoch 52
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.572603225708008 seconds

Loss: 0.5602

Train Accuracy: 80.37%

Test Accuracy: 76.59%

Google Drive already mounted.

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

--- Training Member 1 (Batch size: 256) ---
built data in 1.8298988342285156 seconds
LR changed during epoch: 2.72e-04 -> 2.68e-04
total runtime to train this model was 26.577312469482422 seconds
Hyperparameteres for model 1 at epoch 52
lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.5733888149261475 seconds

Loss: 0.4788

Train Accuracy: 82.97%

Test Accuracy: 76.78%

Google Drive already mounted.

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

--- Training Member 2 (Batch size: 256) ---
built data in 1.6092159748077393 seconds
LR changed during epoch: 9.23e-05 -> 8.35e-05
total runtime to train this model was 27.495457887649536 seconds
Hyperparameteres for model 2 at epoch 52
lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4243903160095215 seconds

Loss: 0.3422

Train Accuracy: 87.82%

Test Accuracy: 78.06%

Google Drive already mounted.

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

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

built data in 1.6098952293395996 seconds

LR changed during epoch: 6.28e-05 -> 5.68e-05

total runtime to train this model was 27.194221258163452 seconds

Hyperparameteres for model 3 at epoch 52

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.416569948196411 seconds

Loss: 0.4668

Train Accuracy: 83.54%

Test Accuracy: 77.74%

Google Drive already mounted.

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

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

built data in 1.5831482410430908 seconds

LR changed during epoch: 1.29e-04 -> 2.56e-04

total runtime to train this model was 27.021025896072388 seconds

Hyperparameteres for model 4 at epoch 52

lr: 0.0006394089985257994

weight_decay: 0.14081027580272165

drop_path: 0.03386731909094103

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.373242139816284 seconds

Loss: 0.3928

Train Accuracy: 85.98%

Test Accuracy: 76.75%

Google Drive already mounted.

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

=====
Epoch 52 Summary:
=====

Time: 158.30s (Avg member: 31.66s)
Population Mean Accuracy: 77.18%
Best Member Accuracy: 78.06%
Mean Batch Size: 256
Mean Learning Rate: 3.80e-04
Mean Weight Decay: 0.107

=====
Epoch 53/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.6711690425872803 seconds
LR changed during epoch: 3.44e-05 -> 3.10e-05
total runtime to train this model was 27.08530616760254 seconds
Hyperparameteres for model 0 at epoch 53
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.3726649284362793 seconds
Loss: 0.5528

Train Accuracy: 80.34%

Test Accuracy: 76.27%

Google Drive already mounted.

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

--- Training Member 1 (Batch size: 256) ---
built data in 1.755885124206543 seconds
LR changed during epoch: 2.68e-04 -> 2.64e-04
total runtime to train this model was 27.17648148536682 seconds
Hyperparameteres for model 1 at epoch 53
lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4951555728912354 seconds
Loss: 0.4726

Train Accuracy: 83.16%

Test Accuracy: 75.80%

Google Drive already mounted.

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

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

built data in 1.5781848430633545 seconds
LR changed during epoch: 8.35e-05 -> 7.51e-05
total runtime to train this model was 27.38420557975769 seconds
Hyperparameteres for model 2 at epoch 53
lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.36357045173645 seconds

Loss: 0.3238

Train Accuracy: 88.51%

Test Accuracy: 78.04%

Google Drive already mounted.

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

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

built data in 1.6054880619049072 seconds

LR changed during epoch: 5.68e-05 -> 5.11e-05

total runtime to train this model was 27.13410973548889 seconds

Hyperparameteres for model 3 at epoch 53

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3915088176727295 seconds

Loss: 0.4581

Train Accuracy: 83.77%

Test Accuracy: 77.63%

Google Drive already mounted.

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

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

built data in 1.6206045150756836 seconds

LR changed during epoch: 2.56e-04 -> 3.84e-04

total runtime to train this model was 27.16214418411255 seconds

Hyperparameteres for model 4 at epoch 53

lr: 0.0006394089985257994

weight_decay: 0.14081027580272165

drop_path: 0.03386731909094103

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.60916805267334 seconds

Loss: 0.4718
Train Accuracy: 83.02%
Test Accuracy: 75.62%
Google Drive already mounted.
Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 53 Summary:
=====

Time: 158.76s (Avg member: 31.75s)
Population Mean Accuracy: 76.67%
Best Member Accuracy: 78.04%
Mean Batch Size: 256
Mean Learning Rate: 3.80e-04
Mean Weight Decay: 0.107

=====
Epoch 54/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.7949340343475342 seconds
LR changed during epoch: 3.10e-05 -> 2.78e-05
total runtime to train this model was 26.42417335510254 seconds
Hyperparameteres for model 0 at epoch 54
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.356584072113037 seconds

Loss: 0.5470

Train Accuracy: 80.77%

Test Accuracy: 76.47%

Google Drive already mounted.

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

--- Training Member 1 (Batch size: 256) ---
built data in 1.6939270496368408 seconds
LR changed during epoch: 2.64e-04 -> 2.60e-04
total runtime to train this model was 27.24376130104065 seconds
Hyperparameteres for model 1 at epoch 54
lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4604170322418213 seconds

Loss: 0.4643

Train Accuracy: 83.51%

Test Accuracy: 77.17%

Google Drive already mounted.

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

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

built data in 1.609119176864624 seconds

LR changed during epoch: $7.51e-05 \rightarrow 6.71e-05$

total runtime to train this model was 27.06776237487793 seconds

Hyperparameteres for model 2 at epoch 54

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4778716564178467 seconds

Loss: 0.3164

Train Accuracy: 88.74%

Test Accuracy: 78.72%

Google Drive already mounted.

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

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

built data in 1.5906295776367188 seconds

LR changed during epoch: $5.11e-05 \rightarrow 4.57e-05$

total runtime to train this model was 27.07089328765869 seconds

Hyperparameteres for model 3 at epoch 54

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.40395188331604 seconds

Loss: 0.4513

Train Accuracy: 84.02%

Test Accuracy: 77.44%

Google Drive already mounted.

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

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

built data in 1.7107141017913818 seconds

LR changed during epoch: $3.84e-04 \rightarrow 5.12e-04$

total runtime to train this model was 26.34791588783264 seconds

Hyperparameteres for model 4 at epoch 54

lr: 0.0006394089985257994

weight_decay: 0.14081027580272165

drop_path: 0.03386731909094103

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.294051170349121 seconds

Loss: 0.5257

Train Accuracy: 81.15%

Test Accuracy: 73.91%

Google Drive already mounted.

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

=====
Epoch 54 Summary:
=====

Time: 157.86s (Avg member: 31.57s)

Population Mean Accuracy: 76.74%

Best Member Accuracy: 78.72%

Mean Batch Size: 256

Mean Learning Rate: 3.80e-04

Mean Weight Decay: 0.107

=====
Epoch 55/70
=====

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

built data in 1.6906390190124512 seconds

LR changed during epoch: 2.78e-05 -> 2.47e-05

total runtime to train this model was 26.35812997817993 seconds

Hyperparameteres for model 0 at epoch 55

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9853127002716064 seconds

Loss: 0.5370

Train Accuracy: 81.02%

Test Accuracy: 76.77%

Google Drive already mounted.

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

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

built data in 1.5922412872314453 seconds

LR changed during epoch: 2.60e-04 -> 2.55e-04

total runtime to train this model was 27.16104006767273 seconds

Hyperparameteres for model 1 at epoch 55

lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4360907077789307 seconds

Loss: 0.4536

Train Accuracy: 83.88%

Test Accuracy: 76.96%

Google Drive already mounted.

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

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

built data in 1.6036012172698975 seconds

LR changed during epoch: 6.71e-05 -> 5.94e-05

total runtime to train this model was 27.303704738616943 seconds

Hyperparameteres for model 2 at epoch 55

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4580025672912598 seconds

Loss: 0.3046

Train Accuracy: 89.12%

Test Accuracy: 78.51%

Google Drive already mounted.

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

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

built data in 1.595198631286621 seconds

LR changed during epoch: 4.57e-05 -> 4.05e-05

total runtime to train this model was 27.360466957092285 seconds

Hyperparameteres for model 3 at epoch 55

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.6499454975128174 seconds

Loss: 0.4413

Train Accuracy: 84.45%

Test Accuracy: 77.59%

Google Drive already mounted.

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

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

built data in 1.797792673110962 seconds

LR changed during epoch: 5.12e-04 -> 6.39e-04

total runtime to train this model was 26.185559272766113 seconds

Hyperparameteres for model 4 at epoch 55

lr: 0.0006394089985257994

weight_decay: 0.14081027580272165

drop_path: 0.03386731909094103

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.5996387004852295 seconds

Loss: 0.5852

Train Accuracy: 79.25%

Test Accuracy: 74.25%

Google Drive already mounted.

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

--- Population Update (Epoch 55) ---

=== PBT Exploit & Explore ===

Top performers: [78.51]

Bottom performers: [74.25]

Member 4: lr changed from 0.0006394089985257994 to 0.0007872661741234143

Member 4: weight_decay changed from 0.14081027580272165 to 0.12440747345343983

Member 4: drop_path changed from 0.03386731909094103 to 0.05065076883007301

Member 4 copied from 2

LR=7.87e-04, WD=0.124, DropPath=0.051, Warmup=5 epochs, Batch=256

=====
Epoch 55 Summary:

Time: 158.07s (Avg member: 31.61s)

Population Mean Accuracy: 76.82%

Best Member Accuracy: 78.51%

Mean Batch Size: 256

Mean Learning Rate: 4.10e-04

Mean Weight Decay: 0.104

=====
Epoch 56/70

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

built data in 1.6492161750793457 seconds

LR changed during epoch: 2.47e-05 -> 2.17e-05

total runtime to train this model was 27.346604347229004 seconds

Hyperparameteres for model 0 at epoch 56

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.473682165145874 seconds

Loss: 0.5282

Train Accuracy: 81.43%

Test Accuracy: 76.79%

Google Drive already mounted.

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

--- Training Member 1 (Batch size: 256) ---
built data in 1.5827147960662842 seconds
LR changed during epoch: 2.55e-04 -> 2.50e-04
total runtime to train this model was 27.0125412940979 seconds
Hyperparameteres for model 1 at epoch 56
lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.567328929901123 seconds

Loss: 0.4375

Train Accuracy: 84.34%

Test Accuracy: 76.68%

Google Drive already mounted.

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

--- Training Member 2 (Batch size: 256) ---
built data in 1.6256532669067383 seconds
LR changed during epoch: 5.94e-05 -> 5.22e-05
total runtime to train this model was 26.930432558059692 seconds
Hyperparameteres for model 2 at epoch 56
lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.545161724090576 seconds

Loss: 0.2859

Train Accuracy: 89.92%

Test Accuracy: 78.62%

Google Drive already mounted.

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

--- Training Member 3 (Batch size: 256) ---
built data in 1.7145023345947266 seconds
LR changed during epoch: 4.05e-05 -> 3.56e-05
total runtime to train this model was 25.871485233306885 seconds
Hyperparameteres for model 3 at epoch 56
lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.2686264514923096 seconds

Loss: 0.4344

Train Accuracy: 84.67%

Test Accuracy: 77.92%

Google Drive already mounted.

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

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

built data in 1.773853063583374 seconds

LR changed during epoch: 8.03e-07 -> 1.58e-04

total runtime to train this model was 26.453184366226196 seconds

Hyperparameteres for model 4 at epoch 56

lr: 0.0007872661741234143

weight_decay: 0.12440747345343983

drop_path: 0.05065076883007301

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.868894338607788 seconds

Loss: 0.3080

Train Accuracy: 89.15%

Test Accuracy: 77.62%

Google Drive already mounted.

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

=====
Epoch 56 Summary:

=====
Time: 157.00s (Avg member: 31.40s)

Population Mean Accuracy: 77.53%

Best Member Accuracy: 78.62%

Mean Batch Size: 256

Mean Learning Rate: 4.10e-04

Mean Weight Decay: 0.104
=====

Epoch 57/70
=====

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

built data in 1.6252150535583496 seconds

LR changed during epoch: 2.17e-05 -> 1.90e-05

total runtime to train this model was 26.732930898666382 seconds

Hyperparameteres for model 0 at epoch 57

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3915882110595703 seconds

Loss: 0.5263

Train Accuracy: 81.38%

Test Accuracy: 76.80%

Google Drive already mounted.

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

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

built data in 1.6293926239013672 seconds

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

total runtime to train this model was 26.838640451431274 seconds

Hyperparameteres for model 1 at epoch 57

lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4166171550750732 seconds

Loss: 0.4305

Train Accuracy: 84.59%

Test Accuracy: 77.23%

Google Drive already mounted.

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

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

built data in 1.5900447368621826 seconds

LR changed during epoch: 5.22e-05 -> 4.54e-05

total runtime to train this model was 26.936410665512085 seconds

Hyperparameteres for model 2 at epoch 57

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4296960830688477 seconds

Loss: 0.2838

Train Accuracy: 89.98%

Test Accuracy: 78.32%

Google Drive already mounted.

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

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

built data in 1.7556328773498535 seconds

LR changed during epoch: 3.56e-05 -> 3.10e-05

total runtime to train this model was 26.089757919311523 seconds

Hyperparameteres for model 3 at epoch 57

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.290361166000366 seconds

Loss: 0.4290

Train Accuracy: 84.96%

Test Accuracy: 77.99%

Google Drive already mounted.

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

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

built data in 1.6704585552215576 seconds

LR changed during epoch: 1.58e-04 -> 3.16e-04

total runtime to train this model was 27.63348889350891 seconds

Hyperparameteres for model 4 at epoch 57

lr: 0.0007872661741234143

weight_decay: 0.12440747345343983

drop_path: 0.05065076883007301

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.537243127822876 seconds

Loss: 0.3954

Train Accuracy: 85.87%

Test Accuracy: 76.38%

Google Drive already mounted.

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

=====
Epoch 57 Summary:

=====
Time: 156.94s (Avg member: 31.39s)

Population Mean Accuracy: 77.34%

Best Member Accuracy: 78.32%

Mean Batch Size: 256

Mean Learning Rate: 4.10e-04

Mean Weight Decay: 0.104
=====

Epoch 58/70
=====

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

built data in 1.641456127166748 seconds

LR changed during epoch: 1.90e-05 -> 1.64e-05

total runtime to train this model was 27.671334266662598 seconds

Hyperparameteres for model 0 at epoch 58

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5559582710266113 seconds

Loss: 0.5204

Train Accuracy: 81.68%

Test Accuracy: 77.14%

Google Drive already mounted.

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

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

built data in 1.6057538986206055 seconds

LR changed during epoch: 2.45e-04 -> 2.40e-04

total runtime to train this model was 27.255126953125 seconds

Hyperparameteres for model 1 at epoch 58

lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4599711894989014 seconds

Loss: 0.4125

Train Accuracy: 85.25%

Test Accuracy: 76.87%

Google Drive already mounted.

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

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

built data in 1.645613670349121 seconds

LR changed during epoch: 4.54e-05 -> 3.90e-05

total runtime to train this model was 26.985951900482178 seconds

Hyperparameteres for model 2 at epoch 58

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9966092109680176 seconds

Loss: 0.2742

Train Accuracy: 90.22%

Test Accuracy: 78.44%

Google Drive already mounted.

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

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

built data in 1.7758429050445557 seconds

LR changed during epoch: 3.10e-05 -> 2.67e-05

total runtime to train this model was 26.766727209091187 seconds

Hyperparameteres for model 3 at epoch 58
lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.9546642303466797 seconds

Loss: 0.4126

Train Accuracy: 85.27%

Test Accuracy: 78.12%

Google Drive already mounted.

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

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

built data in 1.632286787033081 seconds

LR changed during epoch: 3.16e-04 -> 4.73e-04

total runtime to train this model was 27.33648920059204 seconds

Hyperparameteres for model 4 at epoch 58

lr: 0.0007872661741234143

weight_decay: 0.12440747345343983

drop_path: 0.05065076883007301

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4489657878875732 seconds

Loss: 0.4824

Train Accuracy: 82.63%

Test Accuracy: 75.08%

Google Drive already mounted.

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

=====
Epoch 58 Summary:

=====
Time: 159.01s (Avg member: 31.80s)

Population Mean Accuracy: 77.13%

Best Member Accuracy: 78.44%

Mean Batch Size: 256

Mean Learning Rate: 4.10e-04

Mean Weight Decay: 0.104
=====

Epoch 59/70
=====

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

built data in 1.6578614711761475 seconds

LR changed during epoch: 1.64e-05 -> 1.40e-05

total runtime to train this model was 26.870990991592407 seconds

Hyperparameteres for model 0 at epoch 59

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4618682861328125 seconds

Loss: 0.5074

Train Accuracy: 82.20%

Test Accuracy: 77.03%

Google Drive already mounted.

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

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

built data in 1.592317819595337 seconds

LR changed during epoch: 2.40e-04 -> 2.35e-04

total runtime to train this model was 26.948772430419922 seconds

Hyperparameteres for model 1 at epoch 59

lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4389820098876953 seconds

Loss: 0.4096

Train Accuracy: 85.21%

Test Accuracy: 77.61%

Google Drive already mounted.

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

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

built data in 1.729938268661499 seconds

LR changed during epoch: 3.90e-05 -> 3.30e-05

total runtime to train this model was 26.297740936279297 seconds

Hyperparameteres for model 2 at epoch 59

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.453333854675293 seconds

Loss: 0.2625

Train Accuracy: 90.63%

Test Accuracy: 78.50%

Google Drive already mounted.

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

--- Training Member 3 (Batch size: 256) ---
built data in 1.6946003437042236 seconds
LR changed during epoch: 2.67e-05 -> 2.27e-05
total runtime to train this model was 26.664217233657837 seconds
Hyperparameteres for model 3 at epoch 59
lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.6082468032836914 seconds
Loss: 0.4083
Train Accuracy: 85.51%
Test Accuracy: 78.32%

Google Drive already mounted.

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

--- Training Member 4 (Batch size: 256) ---
built data in 1.6215362548828125 seconds
LR changed during epoch: 4.73e-04 -> 6.31e-04
total runtime to train this model was 27.384031772613525 seconds
Hyperparameteres for model 4 at epoch 59
lr: 0.0007872661741234143

weight_decay: 0.12440747345343983

drop_path: 0.05065076883007301

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.460120916366577 seconds
Loss: 0.5574
Train Accuracy: 79.83%
Test Accuracy: 73.31%

Google Drive already mounted.

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

=====
Epoch 59 Summary:

=====
Time: 157.17s (Avg member: 31.43s)
Population Mean Accuracy: 76.95%
Best Member Accuracy: 78.50%
Mean Batch Size: 256
Mean Learning Rate: 4.10e-04
Mean Weight Decay: 0.104

=====
Epoch 60/70
=====

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

built data in 1.5987708568572998 seconds
LR changed during epoch: 1.40e-05 -> 1.18e-05
total runtime to train this model was 27.218798637390137 seconds
Hyperparameteres for model 0 at epoch 60
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.470045328140259 seconds

Loss: 0.5050

Train Accuracy: 82.11%

Test Accuracy: 76.91%

Google Drive already mounted.

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

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

built data in 1.5949609279632568 seconds

LR changed during epoch: 2.35e-04 -> 2.29e-04

total runtime to train this model was 26.9454083442688 seconds

Hyperparameteres for model 1 at epoch 60

lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.437818765640259 seconds

Loss: 0.3963

Train Accuracy: 85.74%

Test Accuracy: 77.37%

Google Drive already mounted.

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

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

built data in 1.7508902549743652 seconds

LR changed during epoch: 3.30e-05 -> 2.76e-05

total runtime to train this model was 26.0460684299469 seconds

Hyperparameteres for model 2 at epoch 60

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.746138334274292 seconds

Loss: 0.2584
Train Accuracy: 90.78%
Test Accuracy: 78.82%
Google Drive already mounted.
Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.6915669441223145 seconds
LR changed during epoch: 2.27e-05 -> 1.90e-05
total runtime to train this model was 28.581451416015625 seconds
Hyperparameteres for model 3 at epoch 60
lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.526122808456421 seconds

Loss: 0.4050

Train Accuracy: 85.54%

Test Accuracy: 78.23%

Google Drive already mounted.

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

--- Training Member 4 (Batch size: 256) ---
built data in 1.6578328609466553 seconds
LR changed during epoch: 6.31e-04 -> 7.87e-04
total runtime to train this model was 27.973389863967896 seconds
Hyperparameteres for model 4 at epoch 60
lr: 0.0007872661741234143

weight_decay: 0.12440747345343983

drop_path: 0.05065076883007301

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.599710702896118 seconds

Loss: 0.6219

Train Accuracy: 77.68%

Test Accuracy: 72.47%

Google Drive already mounted.

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

--- Population Update (Epoch 60) ---

=== PBT Exploit & Explore ===

Top performers: [78.82]

Bottom performers: [72.47]

Member 4: lr changed from 0.0007872661741234143 to 0.0007773568290608437

Member 4: weight_decay changed from 0.12440747345343983 to 0.1473940940550669

Member 4: drop_path changed from 0.05065076883007301 to 0.06458363066634094

Member 4 copied from 2

LR=7.77e-04, WD=0.147, DropPath=0.065, Warmup=5 epochs, Batch=256

=====
Epoch 60 Summary:
=====

Time: 160.24s (Avg member: 32.05s)
Population Mean Accuracy: 76.76%
Best Member Accuracy: 78.82%
Mean Batch Size: 256
Mean Learning Rate: 4.08e-04
Mean Weight Decay: 0.109

=====
Epoch 61/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.6791322231292725 seconds
LR changed during epoch: 1.18e-05 -> 9.76e-06
total runtime to train this model was 28.4599347114563 seconds
Hyperparameteres for model 0 at epoch 61
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.251922130584717 seconds

Loss: 0.5044

Train Accuracy: 82.16%

Test Accuracy: 77.13%

Google Drive already mounted.

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

--- Training Member 1 (Batch size: 256) ---
built data in 1.8529400825500488 seconds
LR changed during epoch: 2.29e-04 -> 2.23e-04
total runtime to train this model was 28.080238342285156 seconds
Hyperparameteres for model 1 at epoch 61
lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.693275213241577 seconds

Loss: 0.3919

Train Accuracy: 86.11%

Test Accuracy: 77.33%

Google Drive already mounted.

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

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

built data in 1.6592252254486084 seconds
LR changed during epoch: 2.76e-05 -> 2.26e-05
total runtime to train this model was 27.87820029258728 seconds
Hyperparameteres for model 2 at epoch 61
lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5474023818969727 seconds

Loss: 0.2469

Train Accuracy: 91.31%

Test Accuracy: 78.55%

Google Drive already mounted.

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

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

built data in 1.6403636932373047 seconds

LR changed during epoch: 1.90e-05 -> 1.56e-05

total runtime to train this model was 27.723663091659546 seconds

Hyperparameteres for model 3 at epoch 61

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.522752523422241 seconds

Loss: 0.3965

Train Accuracy: 85.91%

Test Accuracy: 78.33%

Google Drive already mounted.

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

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

built data in 1.793243408203125 seconds

LR changed during epoch: 7.93e-07 -> 1.56e-04

total runtime to train this model was 27.263093948364258 seconds

Hyperparameteres for model 4 at epoch 61

lr: 0.0007773568290608437

weight_decay: 0.1473940940550669

drop_path: 0.06458363066634094

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.6889545917510986 seconds

Loss: 0.2828
Train Accuracy: 89.97%
Test Accuracy: 78.14%
Google Drive already mounted.
Member 4: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_4_seed_38042.pt

=====
Epoch 61 Summary:
=====

Time: 164.05s (Avg member: 32.81s)
Population Mean Accuracy: 77.90%
Best Member Accuracy: 78.55%
Mean Batch Size: 256
Mean Learning Rate: 4.08e-04
Mean Weight Decay: 0.109

=====
Epoch 62/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.6460018157958984 seconds
LR changed during epoch: 9.76e-06 -> 7.95e-06
total runtime to train this model was 27.571999311447144 seconds
Hyperparameteres for model 0 at epoch 62
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.3611228466033936 seconds

Loss: 0.4969
Train Accuracy: 82.24%
Test Accuracy: 77.32%
Google Drive already mounted.
Member 0: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_0_seed_38042.pt

--- Training Member 1 (Batch size: 256) ---
built data in 1.6132862567901611 seconds
LR changed during epoch: 2.23e-04 -> 2.17e-04
total runtime to train this model was 27.61373496055603 seconds
Hyperparameteres for model 1 at epoch 62
lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4919118881225586 seconds

Loss: 0.3747
Train Accuracy: 86.64%

Test Accuracy: 77.80%

Google Drive already mounted.

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

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

built data in 1.6621832847595215 seconds

LR changed during epoch: 2.26e-05 -> 1.81e-05

total runtime to train this model was 27.334765672683716 seconds

Hyperparameteres for model 2 at epoch 62

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.3422486782073975 seconds

Loss: 0.2463

Train Accuracy: 91.28%

Test Accuracy: 78.49%

Google Drive already mounted.

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

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

built data in 1.7108774185180664 seconds

LR changed during epoch: 1.56e-05 -> 1.26e-05

total runtime to train this model was 27.09390354156494 seconds

Hyperparameteres for model 3 at epoch 62

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.294604778289795 seconds

Loss: 0.3932

Train Accuracy: 86.26%

Test Accuracy: 78.24%

Google Drive already mounted.

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

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

built data in 1.7079362869262695 seconds

LR changed during epoch: 1.56e-04 -> 3.12e-04

total runtime to train this model was 27.118247032165527 seconds

Hyperparameteres for model 4 at epoch 62

lr: 0.0007773568290608437

weight_decay: 0.1473940940550669

drop_path: 0.06458363066634094

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.617734909057617 seconds

Loss: 0.3745

Train Accuracy: 86.56%

Test Accuracy: 76.15%

Google Drive already mounted.

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

=====
Epoch 62 Summary:
=====

Time: 159.41s (Avg member: 31.88s)

Population Mean Accuracy: 77.60%

Best Member Accuracy: 78.49%

Mean Batch Size: 256

Mean Learning Rate: 4.08e-04

Mean Weight Decay: 0.109

=====
Epoch 63/70
=====

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

built data in 1.6352217197418213 seconds

LR changed during epoch: 7.95e-06 -> 6.33e-06

total runtime to train this model was 27.310256242752075 seconds

Hyperparameteres for model 0 at epoch 63

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4669911861419678 seconds

Loss: 0.4962

Train Accuracy: 82.59%

Test Accuracy: 77.28%

Google Drive already mounted.

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

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

built data in 1.6742353439331055 seconds

LR changed during epoch: 2.17e-04 -> 2.11e-04

total runtime to train this model was 27.51526641845703 seconds

Hyperparameteres for model 1 at epoch 63

lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4470036029815674 seconds

Loss: 0.3623

Train Accuracy: 87.13%

Test Accuracy: 77.98%

Google Drive already mounted.

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

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

built data in 1.674687147140503 seconds

LR changed during epoch: 1.81e-05 -> 1.42e-05

total runtime to train this model was 27.119890213012695 seconds

Hyperparameteres for model 2 at epoch 63

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.5642082691192627 seconds

Loss: 0.2362

Train Accuracy: 91.68%

Test Accuracy: 78.33%

Google Drive already mounted.

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

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

built data in 1.809227466583252 seconds

LR changed during epoch: 1.26e-05 -> 9.90e-06

total runtime to train this model was 27.726351737976074 seconds

Hyperparameteres for model 3 at epoch 63

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.401451826095581 seconds

Loss: 0.3906

Train Accuracy: 86.24%

Test Accuracy: 78.50%

Google Drive already mounted.

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

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

built data in 1.611231803894043 seconds

LR changed during epoch: 3.12e-04 -> 4.67e-04

total runtime to train this model was 27.202155828475952 seconds

Hyperparameteres for model 4 at epoch 63

lr: 0.0007773568290608437

weight_decay: 0.1473940940550669

drop_path: 0.06458363066634094

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.464676856994629 seconds

Loss: 0.4639

Train Accuracy: 83.37%

Test Accuracy: 73.27%

Google Drive already mounted.

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

=====
Epoch 63 Summary:
=====

Time: 159.95s (Avg member: 31.99s)

Population Mean Accuracy: 77.07%

Best Member Accuracy: 78.50%

Mean Batch Size: 256

Mean Learning Rate: 4.08e-04

Mean Weight Decay: 0.109

=====
Epoch 64/70
=====

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

built data in 1.6278977394104004 seconds

LR changed during epoch: 6.33e-06 -> 4.93e-06

total runtime to train this model was 27.393529891967773 seconds

Hyperparameteres for model 0 at epoch 64

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4206430912017822 seconds

Loss: 0.4900

Train Accuracy: 82.64%

Test Accuracy: 77.44%

Google Drive already mounted.

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

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

built data in 1.5916831493377686 seconds

LR changed during epoch: 2.11e-04 -> 2.04e-04

total runtime to train this model was 27.543330669403076 seconds

Hyperparameteres for model 1 at epoch 64

lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.0945801734924316 seconds

Loss: 0.3531

Train Accuracy: 87.31%

Test Accuracy: 78.17%

Google Drive already mounted.

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

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

built data in 1.7913784980773926 seconds

LR changed during epoch: 1.42e-05 -> 1.07e-05

total runtime to train this model was 27.934768199920654 seconds

Hyperparameteres for model 2 at epoch 64

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.782026529312134 seconds

Loss: 0.2309

Train Accuracy: 91.82%

Test Accuracy: 78.50%

Google Drive already mounted.

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

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

built data in 1.6395065784454346 seconds

LR changed during epoch: 9.90e-06 -> 7.56e-06

total runtime to train this model was 28.001010417938232 seconds

Hyperparameteres for model 3 at epoch 64

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5495872497558594 seconds

Loss: 0.3854

Train Accuracy: 86.33%

Test Accuracy: 78.37%

Google Drive already mounted.

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

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

built data in 1.6698439121246338 seconds

LR changed during epoch: 4.67e-04 -> 6.23e-04
total runtime to train this model was 28.12705421447754 seconds
Hyperparameteres for model 4 at epoch 64
lr: 0.0007773568290608437

weight_decay: 0.1473940940550669

drop_path: 0.06458363066634094

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4027764797210693 seconds
Loss: 0.5496

Train Accuracy: 80.18%

Test Accuracy: 74.73%

Google Drive already mounted.

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

=====
Epoch 64 Summary:

=====
Time: 161.89s (Avg member: 32.38s)

Population Mean Accuracy: 77.44%

Best Member Accuracy: 78.50%

Mean Batch Size: 256

Mean Learning Rate: 4.08e-04

Mean Weight Decay: 0.109

=====
Epoch 65/70

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

built data in 1.7926177978515625 seconds

LR changed during epoch: 4.93e-06 -> 3.73e-06

total runtime to train this model was 26.410763263702393 seconds

Hyperparameteres for model 0 at epoch 65

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.83606219291687 seconds
Loss: 0.4880

Train Accuracy: 82.99%

Test Accuracy: 77.31%

Google Drive already mounted.

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

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

built data in 1.6122236251831055 seconds

LR changed during epoch: 2.04e-04 -> 1.98e-04

total runtime to train this model was 27.034313678741455 seconds

Hyperparameteres for model 1 at epoch 65
lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4775147438049316 seconds
Loss: 0.3375

Train Accuracy: 87.94%

Test Accuracy: 77.69%

Google Drive already mounted.

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

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

built data in 1.6100833415985107 seconds

LR changed during epoch: 1.07e-05 -> 7.74e-06

total runtime to train this model was 26.73641347885132 seconds

Hyperparameteres for model 2 at epoch 65

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.5544703006744385 seconds
Loss: 0.2315

Train Accuracy: 91.72%

Test Accuracy: 78.36%

Google Drive already mounted.

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

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

built data in 1.5933313369750977 seconds

LR changed during epoch: 7.56e-06 -> 5.56e-06

total runtime to train this model was 26.834302186965942 seconds

Hyperparameteres for model 3 at epoch 65

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.348442792892456 seconds
Loss: 0.3749

Train Accuracy: 86.79%

Test Accuracy: 78.42%

Google Drive already mounted.

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

--- Training Member 4 (Batch size: 256) ---
built data in 1.614314079284668 seconds
LR changed during epoch: 6.23e-04 -> 7.77e-04
total runtime to train this model was 26.459562063217163 seconds
Hyperparameteres for model 4 at epoch 65
lr: 0.0007773568290608437

weight_decay: 0.1473940940550669

drop_path: 0.06458363066634094

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.696791887283325 seconds

Loss: 0.6090

Train Accuracy: 77.98%

Test Accuracy: 72.68%

Google Drive already mounted.

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

--- Population Update (Epoch 65) ---

=== PBT Exploit & Explore ===

Top performers: [78.42]

Bottom performers: [72.68]

Member 4: lr changed from 0.0007773568290608437 to 0.0005566201062816856

Member 4: weight_decay changed from 0.1473940940550669 to 0.1387930382556192

Member 4: drop_path changed from 0.06458363066634094 to 0.03500009044736264

Member 4 copied from 3

LR=5.57e-04, WD=0.139, DropPath=0.035, Warmup=5 epochs, Batch=256

=====
Epoch 65 Summary:

Time: 156.93s (Avg member: 31.38s)

Population Mean Accuracy: 76.89%

Best Member Accuracy: 78.42%

Mean Batch Size: 256

Mean Learning Rate: 3.64e-04

Mean Weight Decay: 0.107

=====
Epoch 66/70

--- Training Member 0 (Batch size: 256) ---
built data in 1.7541546821594238 seconds
LR changed during epoch: 3.73e-06 -> 2.75e-06
total runtime to train this model was 25.655500650405884 seconds
Hyperparameteres for model 0 at epoch 66
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.6435089111328125 seconds

Loss: 0.4869

Train Accuracy: 82.73%

Test Accuracy: 77.27%

Google Drive already mounted.

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

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

built data in 1.5866079330444336 seconds

LR changed during epoch: 1.98e-04 -> 1.91e-04

total runtime to train this model was 26.77233099937439 seconds

Hyperparameteres for model 1 at epoch 66

lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4242329597473145 seconds

Loss: 0.3264

Train Accuracy: 88.50%

Test Accuracy: 78.28%

Google Drive already mounted.

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

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

built data in 1.5885870456695557 seconds

LR changed during epoch: 7.74e-06 -> 5.32e-06

total runtime to train this model was 26.632513284683228 seconds

Hyperparameteres for model 2 at epoch 66

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4570233821868896 seconds

Loss: 0.2316

Train Accuracy: 91.90%

Test Accuracy: 78.47%

Google Drive already mounted.

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

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

built data in 1.5874459743499756 seconds

LR changed during epoch: 5.56e-06 -> 3.92e-06

total runtime to train this model was 26.92976951599121 seconds

Hyperparameteres for model 3 at epoch 66
lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.413402557373047 seconds

Loss: 0.3807

Train Accuracy: 86.45%

Test Accuracy: 78.41%

Google Drive already mounted.

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

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

built data in 1.6094977855682373 seconds

LR changed during epoch: 5.68e-07 -> 1.12e-04

total runtime to train this model was 26.828169107437134 seconds

Hyperparameteres for model 4 at epoch 66

lr: 0.0005566201062816856

weight_decay: 0.1387930382556192

drop_path: 0.03500009044736264

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.8354990482330322 seconds

Loss: 0.4186

Train Accuracy: 85.13%

Test Accuracy: 77.61%

Google Drive already mounted.

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

=====
Epoch 66 Summary:

=====
Time: 156.07s (Avg member: 31.21s)

Population Mean Accuracy: 78.01%

Best Member Accuracy: 78.47%

Mean Batch Size: 256

Mean Learning Rate: 3.64e-04

Mean Weight Decay: 0.107
=====

Epoch 67/70
=====

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

built data in 1.7862975597381592 seconds

LR changed during epoch: 2.75e-06 -> 1.99e-06

total runtime to train this model was 26.208520650863647 seconds

Hyperparameteres for model 0 at epoch 67

lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.290964365005493 seconds

Loss: 0.4893

Train Accuracy: 82.63%

Test Accuracy: 77.31%

Google Drive already mounted.

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

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

built data in 1.5732133388519287 seconds

LR changed during epoch: 1.91e-04 -> 1.85e-04

total runtime to train this model was 27.549936771392822 seconds

Hyperparameteres for model 1 at epoch 67

lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.385761022567749 seconds

Loss: 0.3182

Train Accuracy: 88.60%

Test Accuracy: 78.02%

Google Drive already mounted.

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

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

built data in 1.5918395519256592 seconds

LR changed during epoch: 5.32e-06 -> 3.43e-06

total runtime to train this model was 26.92232894897461 seconds

Hyperparameteres for model 2 at epoch 67

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.426905632019043 seconds

Loss: 0.2276

Train Accuracy: 91.91%

Test Accuracy: 78.49%

Google Drive already mounted.

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

--- Training Member 3 (Batch size: 256) ---
built data in 1.5786447525024414 seconds
LR changed during epoch: 3.92e-06 -> 2.64e-06
total runtime to train this model was 26.912615537643433 seconds
Hyperparameteres for model 3 at epoch 67
lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 2.4379420280456543 seconds
Loss: 0.3768

Train Accuracy: 86.82%

Test Accuracy: 78.41%

Google Drive already mounted.

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

--- Training Member 4 (Batch size: 256) ---
built data in 1.713916301727295 seconds
LR changed during epoch: 1.12e-04 -> 2.23e-04
total runtime to train this model was 26.422061443328857 seconds
Hyperparameteres for model 4 at epoch 67
lr: 0.0005566201062816856

weight_decay: 0.1387930382556192

drop_path: 0.03500009044736264

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____
evaluation in 3.643998384475708 seconds
Loss: 0.5046

Train Accuracy: 81.95%

Test Accuracy: 76.13%

Google Drive already mounted.

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

=====
Epoch 67 Summary:

=====
Time: 157.72s (Avg member: 31.54s)

Population Mean Accuracy: 77.67%

Best Member Accuracy: 78.49%

Mean Batch Size: 256

Mean Learning Rate: 3.64e-04

Mean Weight Decay: 0.107

=====
Epoch 68/70

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

built data in 1.6017813682556152 seconds
LR changed during epoch: 1.99e-06 -> 1.44e-06
total runtime to train this model was 27.275752544403076 seconds
Hyperparameteres for model 0 at epoch 68
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.452035427093506 seconds

Loss: 0.4847

Train Accuracy: 82.83%

Test Accuracy: 77.30%

Google Drive already mounted.

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

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

built data in 1.5798485279083252 seconds

LR changed during epoch: 1.85e-04 -> 1.78e-04

total runtime to train this model was 27.093994855880737 seconds

Hyperparameteres for model 1 at epoch 68

lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4322168827056885 seconds

Loss: 0.3109

Train Accuracy: 88.81%

Test Accuracy: 77.81%

Google Drive already mounted.

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

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

built data in 1.6268117427825928 seconds

LR changed during epoch: 3.43e-06 -> 2.08e-06

total runtime to train this model was 27.044250011444092 seconds

Hyperparameteres for model 2 at epoch 68

lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.413179874420166 seconds

Loss: 0.2262
Train Accuracy: 92.13%
Test Accuracy: 78.42%
Google Drive already mounted.
Member 2: Checkpoint saved to /content/drive/MyDrive/Colab_Checkpoints/pbt_checkpoints/model_2_seed_38042.pt

--- Training Member 3 (Batch size: 256) ---
built data in 1.716306447982788 seconds
LR changed during epoch: 2.64e-06 -> 1.73e-06
total runtime to train this model was 26.400418996810913 seconds
Hyperparameteres for model 3 at epoch 68
lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.1592161655426025 seconds

Loss: 0.3718

Train Accuracy: 86.99%

Test Accuracy: 78.37%

Google Drive already mounted.

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

--- Training Member 4 (Batch size: 256) ---
built data in 1.7499890327453613 seconds
LR changed during epoch: 2.23e-04 -> 3.35e-04
total runtime to train this model was 26.907244443893433 seconds
Hyperparameteres for model 4 at epoch 68
lr: 0.0005566201062816856

weight_decay: 0.1387930382556192

drop_path: 0.03500009044736264

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.935049295425415 seconds

Loss: 0.5872

Train Accuracy: 78.88%

Test Accuracy: 74.77%

Google Drive already mounted.

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

=====
Epoch 68 Summary:

=====
Time: 157.73s (Avg member: 31.55s)
Population Mean Accuracy: 77.33%
Best Member Accuracy: 78.42%
Mean Batch Size: 256
Mean Learning Rate: 3.64e-04
Mean Weight Decay: 0.107

=====
Epoch 69/70
=====

--- Training Member 0 (Batch size: 256) ---
built data in 1.6255013942718506 seconds
LR changed during epoch: 1.44e-06 -> 1.11e-06
total runtime to train this model was 27.028882265090942 seconds
Hyperparameteres for model 0 at epoch 69
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.473881959915161 seconds

Loss: 0.4858

Train Accuracy: 82.79%

Test Accuracy: 77.36%

Google Drive already mounted.

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

--- Training Member 1 (Batch size: 256) ---
built data in 1.588259220123291 seconds
LR changed during epoch: 1.78e-04 -> 1.71e-04
total runtime to train this model was 27.4011173248291 seconds
Hyperparameteres for model 1 at epoch 69
lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4279680252075195 seconds

Loss: 0.2961

Train Accuracy: 89.53%

Test Accuracy: 77.82%

Google Drive already mounted.

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

--- Training Member 2 (Batch size: 256) ---
built data in 1.6048779487609863 seconds
LR changed during epoch: 2.08e-06 -> 1.27e-06
total runtime to train this model was 27.163813829421997 seconds
Hyperparameteres for model 2 at epoch 69
lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.729748487472534 seconds

Loss: 0.2247

Train Accuracy: 92.08%

Test Accuracy: 78.47%

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

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

built data in 1.7860510349273682 seconds

LR changed during epoch: 1.73e-06 -> 1.18e-06

total runtime to train this model was 26.94099187850952 seconds

Hyperparameteres for model 3 at epoch 69

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.229623556137085 seconds

Loss: 0.3747

Train Accuracy: 86.76%

Test Accuracy: 78.39%

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

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

built data in 1.6473708152770996 seconds

LR changed during epoch: 3.35e-04 -> 4.46e-04

total runtime to train this model was 27.424243927001953 seconds

Hyperparameteres for model 4 at epoch 69

lr: 0.0005566201062816856

weight_decay: 0.1387930382556192

drop_path: 0.03500009044736264

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.5146982669830322 seconds

Loss: 0.6519

Train Accuracy: 76.81%

Test Accuracy: 72.77%

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

=====
Epoch 69 Summary:

=====
Time: 158.92s (Avg member: 31.78s)

Population Mean Accuracy: 76.96%

Best Member Accuracy: 78.47%
Mean Batch Size: 256
Mean Learning Rate: 3.64e-04
Mean Weight Decay: 0.107

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

--- Training Member 0 (Batch size: 256) ---
built data in 1.6053600311279297 seconds
LR changed during epoch: 1.11e-06 -> 1.00e-06
total runtime to train this model was 27.19640326499939 seconds
Hyperparameteres for model 0 at epoch 70
lr: 0.0001894099367645819

weight_decay: 0.09616745871263249

drop_path: 0.12303546707184179

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.505444288253784 seconds

Loss: 0.4821

Train Accuracy: 82.83%

Test Accuracy: 77.42%

Google Drive already mounted.

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

--- Training Member 1 (Batch size: 256) ---
built data in 1.634545087814331 seconds
LR changed during epoch: 1.71e-04 -> 1.64e-04
total runtime to train this model was 27.619308471679688 seconds
Hyperparameteres for model 1 at epoch 70
lr: 0.0002917661696515262

weight_decay: 0.1492908814828245

drop_path: 0.12393736897956506

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 3.126967191696167 seconds

Loss: 0.2844

Train Accuracy: 89.74%

Test Accuracy: 78.56%

Google Drive already mounted.

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

--- Training Member 2 (Batch size: 256) ---
built data in 1.7514705657958984 seconds
LR changed during epoch: 1.27e-06 -> 1.00e-06
total runtime to train this model was 27.16761040687561 seconds
Hyperparameteres for model 2 at epoch 70
lr: 0.00046580972075259094

weight_decay: 0.04163760518412271

drop_path: 0.08681703746394512

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.776508092880249 seconds

Loss: 0.2265

Train Accuracy: 92.05%

Test Accuracy: 78.52%

Google Drive already mounted.

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

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

built data in 1.5867867469787598 seconds

LR changed during epoch: 1.18e-06 -> 1.00e-06

total runtime to train this model was 27.422709941864014 seconds

Hyperparameteres for model 3 at epoch 70

lr: 0.0003155456675032866

weight_decay: 0.10835600837460257

drop_path: 0.08252985466930329

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.480512857437134 seconds

Loss: 0.3763

Train Accuracy: 86.63%

Test Accuracy: 78.42%

Google Drive already mounted.

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

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

built data in 1.6018471717834473 seconds

LR changed during epoch: 4.46e-04 -> 5.57e-04

total runtime to train this model was 27.70991802215576 seconds

Hyperparameteres for model 4 at epoch 70

lr: 0.0005566201062816856

weight_decay: 0.1387930382556192

drop_path: 0.03500009044736264

warmup_epochs: 5

batch_size: 256

_____ end of hyperparam printing _____

evaluation in 2.4017088413238525 seconds

Loss: 0.6906

Train Accuracy: 75.40%

Test Accuracy: 71.42%

Google Drive already mounted.

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

--- Population Update (Epoch 70) ---

=== PBT Exploit & Explore ===

Top performers: [78.56]

Bottom performers: [71.42]

Member 4: lr changed from 0.0005566201062816856 to 0.0004807776782989105

Member 4: weight_decay changed from 0.1387930382556192 to 0.11945727676106856

Member 4: drop_path changed from 0.03500009044736264 to 0.0625454115264876

Member 4 copied from 1

LR=4.81e-04, WD=0.119, DropPath=0.063, Warmup=5 epochs, Batch=256

=====
Epoch 70 Summary:
=====

Time: 159.92s (Avg member: 31.98s)

Population Mean Accuracy: 76.87%

Best Member Accuracy: 78.56%

Mean Batch Size: 256

Mean Learning Rate: 3.49e-04

Mean Weight Decay: 0.103

=====
PBT TRAINING COMPLETE
=====

Best member: 1

Best accuracy: 78.56%

Best hyperparameters:

Learning Rate: 2.92e-04

Weight Decay: 0.149

Drop Path Rate: 0.124

Warmup Epochs: 5

Batch Size: 256

=====
PBT TIMING REPORT
=====

Overall Statistics	Value
Total runtime	11109.49s (185.16 min)
Number of epochs	70
Number of population updates	14

Epoch Timing	Value
Average epoch time	158.69s
Std epoch time	1.82s
Min epoch time	155.54s (epoch 31)
Max epoch time	164.05s (epoch 61)

Member Training Timing	Value
Average member time per epoch	31.74s
Total training time	11108.12s
Training efficiency	100.0%

Population Update Timing	Value
Average update time	0.01s
Total update time	0.19s
Update efficiency	0.0%

Batch Size Analysis	Avg Time	Samples
Batch size 256	31.74s	350
Per-Member Statistics	Avg Time	Total Time
Member 0	31.76s	2223.31s
Member 1	31.76s	2223.13s
Member 2	31.73s	2221.35s
Member 3	31.71s	2219.36s
Member 4	31.73s	2220.97s

Experiment completed successfully!
Results saved to: pbt_vit_timing_results.png
Detailed timing saved to: pbt_detailed_timing.png