## 0.0.1 CCVID

```
train:
 optim:
   name: Adam
   lr monitor: val loss
   lr_steps: [10, 20]
   gamma: 0.1
   weight decay: 0.0005
   weight_decay_bias: 0.0005
   warmup_factor: 0.01
   warmup iters: 10
   warmup_method: linear
   base_lr: 0.00035
   momentum: 0.9
   center_loss_weight: 0.0005
   center_lr: 0.5
   triplet_loss_margin: 0.3
 num epochs: 30
```

First 10 epoch trained with learning rate: 0.0035 then it divided by 10.

Subset	# IDs	# Images	# Cameras
Train	75	118613	12
Query	151	116799	12
Gallery	151	112421	12

## 50. epoch

mAP: 0.2714

Rank-1: 0.5587

Rank-5: 0.6147

Rank-10: 0.6412

# 40. epoch

mAP: 0.3309

Rank-1: 0.6180

Rank-5: 0.6729

Rank-10: 0.6951

## 30. epoch

mAP: 0.3319

Rank-1: 0.6199

Rank-5: 0.6811

Rank-10: 0.7065

#### 25. epoch

mAP: 0.3284

Rank-1: 0.6099

Rank-5: 0.6726

Rank-10: 0.6965

```
{"epoch": 0, "step": 1689, "max_epoch": 29, "max_step": 55530, "time_per_epoch":
"0:02:33.555333", "time_per_step": "0:00:00.084343", "eta": "1:14:13.104654", "date":
"7/27/2025", "time": "14:37:32", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress"}
{"date": "7/27/2025", "time": "14:37:32", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 1.5954757928848267,
"train_acc": 0.8416037559509277}}
{"epoch": 1, "step": 3372, "max_epoch": 29, "max_step": 55530, "time_per_epoch":
"0:02:34.794076", "time_per_step": "0:00:00.084677", "eta": "1:12:14.234134", "date":
"7/27/2025", "time": "14:40:9", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 1.5954757928848267, "train_acc":
0.8416037559509277}}
{"date": "7/27/2025", "time": "14:40:9", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.9809382557868958,
"train_acc": 0.9774584174156189}}
{"epoch": 2, "step": 5067, "max_epoch": 29, "max_step": 55530, "time_per_epoch":
"0:02:36.674788", "time_per_step": "0:00:00.084959", "eta": "1:10:30.219282", "date":
"7/27/2025", "time": "14:42:46", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.9809382557868958, "train_acc":
0.9774584174156189}}
{"date": "7/27/2025", "time": "14:42:46", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.9302269816398621,
"train_acc": 0.9844763875007629}}
{"epoch": 3, "step": 6766, "max_epoch": 29, "max_step": 55530, "time_per_epoch":
"0:02:37.455805", "time_per_step": "0:00:00.085134", "eta": "1:08:13.850919", "date":
"7/27/2025", "time": "14:45:23", "status": "RUNNING", "verbosity": "INFO", "message":
```

```
0.9844763875007629}}
{"date": "7/27/2025", "time": "14:45:23", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.8989206552505493,
"train_acc": 0.9883663058280945}}
{"epoch": 4, "step": 8450, "max_epoch": 29, "max_step": 55530, "time_per_epoch":
"0:02:34.683462", "time_per_step": "0:00:00.085093", "eta": "1:04:27.086548", "date":
"7/27/2025", "time": "14:47:58", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.8989206552505493, "train_acc":
0.9883663058280945}}
{"date": "7/27/2025", "time": "14:47:58", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.8748232126235962,
"train_acc": 0.9906843900680542}}
{"epoch": 5, "step": 10124, "max_epoch": 29, "max_step": 55530, "time_per_epoch":
"0:02:33.975383", "time_per_step": "0:00:00.085074", "eta": "1:01:35.409199", "date":
"7/27/2025", "time": "14:50:32", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.8748232126235962, "train_acc":
0.9906843900680542}}
{"date": "7/27/2025", "time": "14:50:32", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.8616032600402832,
"train_acc": 0.9908154010772705}}
{"epoch": 6, "step": 11829, "max_epoch": 29, "max_step": 55530, "time_per_epoch":
"0:02:38.589736", "time_per_step": "0:00:00.085180", "eta": "1:00:47.563928", "date":
"7/27/2025", "time": "14:53:10", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.8616032600402832, "train_acc":
0.9908154010772705}}
{"date": "7/27/2025", "time": "14:53:10", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.8456507921218872,
"train_acc": 0.9933467507362366}}
{"epoch": 7, "step": 13510, "max_epoch": 29, "max_step": 55530, "time_per_epoch":
"0:02:36.068119", "time_per_step": "0:00:00.085235", "eta": "0:57:13.498619", "date":
"7/27/2025", "time": "14:55:46", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.8456507921218872, "train_acc":
0.9933467507362366}}
{"date": "7/27/2025", "time": "14:55:46", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.8390520215034485,
"train_acc": 0.9935864210128784}}
```

"Training loop in progress", "kpi": {"train\_loss": 0.9302269816398621, "train\_acc":

```
"0:02:36.397819", "time_per_step": "0:00:00.085256", "eta": "0:54:44.354200", "date":
"7/27/2025", "time": "14:58:23", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.8390520215034485, "train_acc":
0.9935864210128784}}
{"date": "7/27/2025", "time": "14:58:23", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.8295943737030029,
"train acc": 0.9947115182876587}}
{"epoch": 9, "step": 16897, "max_epoch": 29, "max_step": 55530, "time_per_epoch":
"0:02:35.987770", "time_per_step": "0:00:00.085218", "eta": "0:51:59.755397", "date":
"7/27/2025", "time": "15:0:59", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.8295943737030029, "train_acc":
0.9947115182876587}}
{"date": "7/27/2025", "time": "15:0:59", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.8284008502960205,
"train_acc": 0.9943006038665771}}
{"epoch": 10, "step": 18595, "max_epoch": 29, "max_step": 55530, "time_per_epoch":
"0:02:37.481332", "time_per_step": "0:00:00.085262", "eta": "0:49:52.145300", "date":
"7/27/2025", "time": "15:3:38", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.8284008502960205, "train_acc":
0.9943006038665771}}
{"date": "7/27/2025", "time": "15:3:38", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.8223814964294434,
"train_acc": 0.995168924331665}}
{"epoch": 10, "step": 18576, "max_epoch": 29, "max_step": 55530, "time_per_epoch":
"0:02:35.354272", "time_per_step": "0:00:00.085420", "eta": "0:49:11.731175", "date":
"7/27/2025", "time": "16:17:21", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress"}
{"date": "7/27/2025", "time": "16:17:21", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.8227050304412842,
"train_acc": 0.9950956702232361}}
{"epoch": 11, "step": 20261, "max_epoch": 29, "max_step": 55530, "time_per_epoch":
"0:02:36.275824", "time_per_step": "0:00:00.085470", "eta": "0:46:52.964838", "date":
"7/27/2025", "time": "16:19:59", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.8227050304412842, "train_acc":
0.9950956702232361}}
```

{"epoch": 8, "step": 15200, "max\_epoch": 29, "max\_step": 55530, "time\_per\_epoch":

```
"message": "Train metrics generated.", "kpi": {"train_loss": 0.8188590407371521,
"train_acc": 0.9955118894577026}}
{"epoch": 12, "step": 21949, "max_epoch": 29, "max_step": 55530, "time_per_epoch":
"0:02:36.624611", "time_per_step": "0:00:00.085504", "eta": "0:44:22.618393", "date":
"7/27/2025", "time": "16:22:36", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.8188590407371521, "train_acc":
0.9955118894577026}}
{"date": "7/27/2025", "time": "16:22:36", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.8157941699028015.
"train_acc": 0.9958160519599915}}
{"epoch": 13, "step": 23644, "max_epoch": 29, "max_step": 55530, "time_per_epoch":
"0:02:36.112731", "time_per_step": "0:00:00.085334", "eta": "0:41:37.803699", "date":
"7/27/2025", "time": "16:25:12", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.8157941699028015, "train_acc":
0.9958160519599915}}
{"date": "7/27/2025", "time": "16:25:12", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.8145388960838318,
"train_acc": 0.9958702325820923}}
{"epoch": 14, "step": 25334, "max_epoch": 29, "max_step": 55530, "time_per_epoch":
"0:02:37.064735", "time_per_step": "0:00:00.085368", "eta": "0:39:15.971028", "date":
"7/27/2025", "time": "16:27:49", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.8145388960838318, "train_acc":
0.9958702325820923}}
{"date": "7/27/2025", "time": "16:27:49", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.8116887807846069,
"train_acc": 0.9958672523498535}}
{"epoch": 15, "step": 27041, "max_epoch": 29, "max_step": 55530, "time_per_epoch":
"0:02:38.834879", "time_per_step": "0:00:00.085424", "eta": "0:37:03.688308", "date":
"7/27/2025", "time": "16:30:30", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.8116887807846069, "train_acc":
0.9958672523498535}}
{"date": "7/27/2025", "time": "16:30:30", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.8096083402633667,
"train_acc": 0.9962837100028992}}
{"epoch": 16, "step": 28729, "max_epoch": 29, "max_step": 55530, "time_per_epoch":
"0:02:34.695874", "time_per_step": "0:00:00.085282", "eta": "0:33:31.046359", "date":
"7/27/2025", "time": "16:33:4", "status": "RUNNING", "verbosity": "INFO", "message":
```

{"date": "7/27/2025", "time": "16:19:59", "status": "RUNNING", "verbosity": "INFO",

```
"Training loop in progress", "kpi": {"train_loss": 0.8096083402633667, "train_acc":
0.9962837100028992}}
{"date": "7/27/2025", "time": "16:33:4", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.8099182844161987,
"train_acc": 0.9959734082221985}}
{"epoch": 17, "step": 30416, "max_epoch": 29, "max_step": 55530, "time_per_epoch":
"0:02:33.363866", "time_per_step": "0:00:00.085092", "eta": "0:30:40.366387", "date":
"7/27/2025", "time": "16:35:38", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.8099182844161987, "train_acc":
0.9959734082221985}}
{"date": "7/27/2025", "time": "16:35:38", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.8081381320953369,
"train_acc": 0.995832085609436}}
{"epoch": 18, "step": 32116, "max_epoch": 29, "max_step": 55530, "time_per_epoch":
"0:02:34.799142", "time_per_step": "0:00:00.084934", "eta": "0:28:22.790561", "date":
"7/27/2025", "time": "16:38:12", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.8081381320953369, "train_acc":
0.995832085609436}}
{"date": "7/27/2025", "time": "16:38:12", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.8049566149711609,
"train_acc": 0.9962407946586609}}
{"epoch": 19, "step": 33813, "max_epoch": 29, "max_step": 55530, "time_per_epoch":
"0:02:36.157517", "time_per_step": "0:00:00.084874", "eta": "0:26:01.575174", "date":
"7/27/2025", "time": "16:40:49", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.8049566149711609, "train_acc":
0.9962407946586609}}
{"date": "7/27/2025", "time": "16:40:49", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.8060839176177979,
"train acc": 0.9961144924163818}}
{"epoch": 20, "step": 35492, "max_epoch": 99, "max_step": 185100, "time_per_epoch":
"0:02:32.301538", "time_per_step": "0:00:00.083665", "eta": "3:20:31.821464", "date":
"7/27/2025", "time": "16:56:9", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress"}
{"date": "7/27/2025", "time": "16:56:9", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.8026596307754517,
"train_acc": 0.9965846538543701}}
```

```
"0:02:32.863341", "time_per_step": "0:00:00.083675", "eta": "3:18:43.340624", "date":
"7/27/2025", "time": "16:58:43", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.8026596307754517, "train_acc":
0.9965846538543701}}
{"date": "7/27/2025", "time": "16:58:43", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.8033344149589539,
"train acc": 0.996383547782898}}
{"epoch": 22, "step": 38865, "max_epoch": 99, "max_step": 185100, "time_per_epoch":
"0:02:33.828338", "time_per_step": "0:00:00.083763", "eta": "3:17:24.782037", "date":
"7/27/2025", "time": "17:1:17", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.8033344149589539, "train_acc":
0.996383547782898}}
{"date": "7/27/2025", "time": "17:1:17", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.8008548021316528,
"train_acc": 0.9967787265777588}}
{"epoch": 23, "step": 40560, "max_epoch": 99, "max_step": 185100, "time_per_epoch":
"0:02:32.594652", "time_per_step": "0:00:00.083492", "eta": "3:13:17.193547", "date":
"7/27/2025", "time": "17:3:50", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.8008548021316528, "train_acc":
0.9967787265777588}}
{"date": "7/27/2025", "time": "17:3:50", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.8024258613586426,
"train_acc": 0.996275782585144}}
{"epoch": 24, "step": 42250, "max_epoch": 99, "max_step": 185100, "time_per_epoch":
"0:02:31.177556", "time_per_step": "0:00:00.083218", "eta": "3:08:58.316721", "date":
"7/27/2025", "time": "17:6:21", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.8024258613586426, "train_acc":
0.996275782585144}}
{"date": "7/27/2025", "time": "17:6:21", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.8008694648742676,
"train_acc": 0.9963757395744324}}
{"epoch": 25, "step": 43957, "max_epoch": 99, "max_step": 185100, "time_per_epoch":
"0:02:32.940437", "time_per_step": "0:00:00.083070", "eta": "3:08:37.592326", "date":
"7/27/2025", "time": "17:8:56", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.8008694648742676, "train_acc":
0.9963757395744324}}
```

{"epoch": 21, "step": 37177, "max\_epoch": 99, "max\_step": 185100, "time\_per\_epoch":

```
"message": "Train metrics generated.", "kpi": {"train_loss": 0.7997749447822571,
"train_acc": 0.9963752031326294}}
{"epoch": 26, "step": 45645, "max_epoch": 99, "max_step": 185100, "time_per_epoch":
"0:02:29.854730", "time_per_step": "0:00:00.082872", "eta": "3:02:19.395282", "date":
"7/27/2025", "time": "17:11:25", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.7997749447822571, "train_acc":
0.9963752031326294}}
{"date": "7/27/2025", "time": "17:11:25", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.8006933927536011,
"train_acc": 0.9963066577911377}}
{"epoch": 27, "step": 47332, "max_epoch": 99, "max_step": 185100, "time_per_epoch":
"0:02:29.068365", "time_per_step": "0:00:00.082661", "eta": "2:58:52.922270", "date":
"7/27/2025", "time": "17:13:54", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.8006933927536011, "train_acc":
0.9963066577911377}}
{"date": "7/27/2025", "time": "17:13:54", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.7996673583984375,
"train_acc": 0.9962952136993408}}
{"epoch": 28, "step": 49032, "max_epoch": 99, "max_step": 185100, "time_per_epoch":
"0:02:30.866127", "time_per_step": "0:00:00.082519", "eta": "2:58:31.495035", "date":
"7/27/2025", "time": "17:16:25", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.7996673583984375, "train_acc":
0.9962952136993408}}
{"date": "7/27/2025", "time": "17:16:25", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.7966883778572083,
"train_acc": 0.9966636300086975}}
{"epoch": 29, "step": 50729, "max_epoch": 99, "max_step": 185100, "time_per_epoch":
"0:02:33.572044", "time_per_step": "0:00:00.082535", "eta": "2:59:10.043073", "date":
"7/27/2025", "time": "17:18:59", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.7966883778572083, "train_acc":
0.9966636300086975}}
{"date": "7/27/2025", "time": "17:18:59", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.7993630766868591,
"train_acc": 0.9960960745811462}}
{"epoch": 30, "step": 52408, "max_epoch": 49, "max_step": 92550, "time_per_epoch":
"0:02:32.004075", "time_per_step": "0:00:00.083666", "eta": "0:48:08.077417", "date":
```

{"date": "7/27/2025", "time": "17:8:56", "status": "RUNNING", "verbosity": "INFO",

```
"Training loop in progress"}
{"date": "7/28/2025", "time": "15:17:55", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.7985847592353821,
"train_acc": 0.9963054656982422}}
{"epoch": 31, "step": 54093, "max_epoch": 49, "max_step": 92550, "time_per_epoch":
"0:02:33.683543", "time_per_step": "0:00:00.084030", "eta": "0:46:06.303773", "date":
"7/28/2025", "time": "15:20:31", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.7985847592353821, "train_acc":
0.9963054656982422}}
{"date": "7/28/2025", "time": "15:20:31", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.796255886554718,
"train_acc": 0.9966710209846497}}
{"epoch": 32, "step": 55781, "max_epoch": 49, "max_step": 92550, "time_per_epoch":
"0:02:37.109574", "time_per_step": "0:00:00.084666", "eta": "0:44:30.862759", "date":
"7/28/2025", "time": "15:23:8", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.796255886554718, "train_acc":
0.9966710209846497}}
{"date": "7/28/2025", "time": "15:23:8", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.7948721647262573,
"train_acc": 0.9969268441200256}}
{"epoch": 33, "step": 57476, "max_epoch": 49, "max_step": 92550, "time_per_epoch":
"0:02:37.316434", "time_per_step": "0:00:00.084931", "eta": "0:41:57.062946", "date":
"7/28/2025", "time": "15:25:45", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.7948721647262573, "train_acc":
0.9969268441200256}}
{"date": "7/28/2025", "time": "15:25:45", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.7974585890769958,
"train_acc": 0.996275782585144}}
{"epoch": 34, "step": 59166, "max_epoch": 49, "max_step": 92550, "time_per_epoch":
"0:02:34.170856", "time_per_step": "0:00:00.084773", "eta": "0:38:32.562840", "date":
"7/28/2025", "time": "15:28:19", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.7974585890769958, "train_acc":
0.996275782585144}}
{"date": "7/28/2025", "time": "15:28:19", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.7953119874000549,
"train_acc": 0.9966068863868713}}
```

"7/28/2025", "time": "15:17:55", "status": "RUNNING", "verbosity": "INFO", "message":

```
"0:02:37.065506", "time_per_step": "0:00:00.084826", "eta": "0:36:38.917087", "date":
"7/28/2025", "time": "15:30:56", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.7953119874000549, "train_acc":
0.9966068863868713}}
{"date": "7/28/2025", "time": "15:30:56", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.7954805493354797,
"train acc": 0.9964351058006287}}
{"epoch": 36, "step": 62559, "max_epoch": 49, "max_step": 92550, "time_per_epoch":
"0:02:37.205006", "time_per_step": "0:00:00.084991", "eta": "0:34:03.665080", "date":
"7/28/2025", "time": "15:33:34", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.7954805493354797, "train_acc":
0.9964351058006287}}
{"date": "7/28/2025", "time": "15:33:34", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.7948197722434998,
"train_acc": 0.9966861605644226}}
{"epoch": 37, "step": 64246, "max_epoch": 49, "max_step": 92550, "time_per_epoch":
"0:02:36.473059", "time_per_step": "0:00:00.085090", "eta": "0:31:17.676710", "date":
"7/28/2025", "time": "15:36:10", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.7948197722434998, "train_acc":
0.9966861605644226}}
{"date": "7/28/2025", "time": "15:36:10", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.7944850325584412,
"train_acc": 0.9963600039482117}}
{"epoch": 38, "step": 65946, "max_epoch": 49, "max_step": 92550, "time_per_epoch":
"0:02:36.760080", "time_per_step": "0:00:00.085082", "eta": "0:28:44.360876", "date":
"7/28/2025", "time": "15:38:47", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.7944850325584412, "train_acc":
0.9963600039482117}}
{"date": "7/28/2025", "time": "15:38:47", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.7927937507629395,
"train_acc": 0.9964337944984436}}
{"epoch": 39, "step": 67643, "max_epoch": 49, "max_step": 92550, "time_per_epoch":
"0:02:37.201981", "time_per_step": "0:00:00.085097", "eta": "0:26:12.019808", "date":
"7/28/2025", "time": "15:41:24", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.7927937507629395, "train_acc":
0.9964337944984436}}
```

{"epoch": 35, "step": 60871, "max\_epoch": 49, "max\_step": 92550, "time\_per\_epoch":

```
"message": "Train metrics generated.", "kpi": {"train_loss": 0.794359028339386,
"train_acc": 0.9964367151260376}}
{"epoch": 40, "step": 69337, "max_epoch": 49, "max_step": 92550, "time_per_epoch":
"0:02:37.946226", "time_per_step": "0:00:00.085181", "eta": "0:23:41.516037", "date":
"7/28/2025", "time": "15:44:4", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.794359028339386, "train_acc":
0.9964367151260376}}
{"date": "7/28/2025", "time": "15:44:4", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.7940720915794373,
"train_acc": 0.9966148734092712}}
{"epoch": 41, "step": 71024, "max_epoch": 49, "max_step": 92550, "time_per_epoch":
"0:02:37.226958", "time_per_step": "0:00:00.085251", "eta": "0:20:57.815664", "date":
"7/28/2025", "time": "15:46:41", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.7940720915794373, "train_acc":
0.9966148734092712}}
{"date": "7/28/2025", "time": "15:46:41", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.7936655879020691,
"train_acc": 0.9964156150817871}}
{"epoch": 42, "step": 72690, "max_epoch": 49, "max_step": 92550, "time_per_epoch":
"0:02:33.475890", "time_per_step": "0:00:00.085231", "eta": "0:17:54.331228", "date":
"7/28/2025", "time": "15:49:14", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.7936655879020691, "train_acc":
0.9964156150817871}}
{"date": "7/28/2025", "time": "15:49:14", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.7929688096046448,
"train_acc": 0.9964454770088196}}
{"epoch": 43, "step": 74401, "max_epoch": 49, "max_step": 92550, "time_per_epoch":
"0:02:37.179427", "time_per_step": "0:00:00.085202", "eta": "0:15:43.076563", "date":
"7/28/2025", "time": "15:51:52", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.7929688096046448, "train_acc":
0.9964454770088196}}
{"date": "7/28/2025", "time": "15:51:52", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.7928701639175415,
"train_acc": 0.9964658617973328}}
{"epoch": 44, "step": 76098, "max_epoch": 49, "max_step": 92550, "time_per_epoch":
"0:02:37.378542", "time_per_step": "0:00:00.085223", "eta": "0:13:06.892710", "date":
"7/28/2025", "time": "15:54:29", "status": "RUNNING", "verbosity": "INFO", "message":
```

{"date": "7/28/2025", "time": "15:41:24", "status": "RUNNING", "verbosity": "INFO",

```
0.9964658617973328}}
{"date": "7/28/2025", "time": "15:54:29", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.7925330400466919,
"train_acc": 0.996482789516449}}
{"epoch": 45, "step": 77793, "max_epoch": 49, "max_step": 92550, "time_per_epoch":
"0:02:38.292076", "time_per_step": "0:00:00.085267", "eta": "0:10:33.168303", "date":
"7/28/2025", "time": "15:57:7", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.7925330400466919, "train_acc":
0.996482789516449}}
{"date": "7/28/2025", "time": "15:57:7", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.7913980484008789,
"train_acc": 0.996699869632721}}
{"epoch": 46, "step": 79479, "max_epoch": 49, "max_step": 92550, "time_per_epoch":
"0:02:36.548370", "time_per_step": "0:00:00.085286", "eta": "0:07:49.645110", "date":
"7/28/2025", "time": "15:59:44", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.7913980484008789, "train_acc":
0.996699869632721}}
{"date": "7/28/2025", "time": "15:59:44", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.7926412224769592,
"train_acc": 0.9964227676391602}}
{"epoch": 47, "step": 81158, "max_epoch": 49, "max_step": 92550, "time_per_epoch":
"0:02:34.745219", "time_per_step": "0:00:00.085265", "eta": "0:05:09.490438", "date":
"7/28/2025", "time": "16:2:19", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.7926412224769592, "train_acc":
0.9964227676391602}}
{"date": "7/28/2025", "time": "16:2:19", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.7922466397285461,
"train_acc": 0.9962961673736572}}
{"epoch": 48, "step": 82843, "max_epoch": 49, "max_step": 92550, "time_per_epoch":
"0:02:36.360894", "time_per_step": "0:00:00.085276", "eta": "0:02:36.360894", "date":
"7/28/2025", "time": "16:4:55", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.7922466397285461, "train_acc":
0.9962961673736572}}
{"date": "7/28/2025", "time": "16:4:55", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.7919754981994629,
"train_acc": 0.9962908029556274}}
```

"Training loop in progress", "kpi": {"train\_loss": 0.7928701639175415, "train\_acc":

```
"epoch": 49, "step": 84547, "max_epoch": 49, "max_step": 92550, "time_per_epoch":
"0:02:38.070554", "time_per_step": "0:00:00.085295", "eta": "0:00:00", "date":
"7/28/2025", "time": "16:7:33", "status": "RUNNING", "verbosity": "INFO", "message":
"Training loop in progress", "kpi": {"train_loss": 0.7919754981994629, "train_acc":
0.9962908029556274}}
{"date": "7/28/2025", "time": "16:7:33", "status": "RUNNING", "verbosity": "INFO",
"message": "Train metrics generated.", "kpi": {"train_loss": 0.7899510264396667,
"train_acc": 0.9966530799865723}}
{"date": "7/28/2025", "time": "16:7:35", "status": "RUNNING", "verbosity": "INFO",
"message": "Training loop complete.", "kpi": {"train_loss": 0.7899510264396667,
"train_acc": 0.9966530799865723}}
{"date": "7/28/2025", "time": "16:7:35", "status": "RUNNING", "verbosity": "INFO",
"message": "Train finished successfully.", "kpi": {"train_loss": 0.7899510264396667,
"train_acc": 0.9966530799865723}}
```