

MLOPS : Assignment 6

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Training and Testing Model:

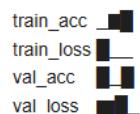
Taking small Dataset sample for fast run

Train size: 1000
Val size: 200

Model Accuracies:

Finishing previous runs because reinit is set to 'default'.
View run **ethereal-vortex-10** at: <https://wandb.ai/r2023/tiny-imagenet-resnet/runs/xzrcut6p>
View project at: <https://wandb.ai/r2023/tiny-imagenet-resnet>
Synced 5 W&B file(s), 0 media file(s), 0 artifact file(s) and 0 other file(s)
Find logs at: ./wandb/run-20251102_164659-xzrcut6p/logs
Tracking run with wandb version 0.22.2
Run data is saved locally in /content/wandb/run-20251102_173155-5q9wqmcz
Syncing run **rose-sponge-14** to [Weights & Biases \(docs\)](#)
View project at <https://wandb.ai/r2023/tiny-imagenet-resnet>
View run at <https://wandb.ai/r2023/tiny-imagenet-resnet/runs/5q9wqmcz>
Epoch 1: Train Acc=0.867, Val Acc=0.610
Epoch 2: Train Acc=0.970, Val Acc=0.200
Epoch 3: Train Acc=0.984, Val Acc=0.595

Run history:

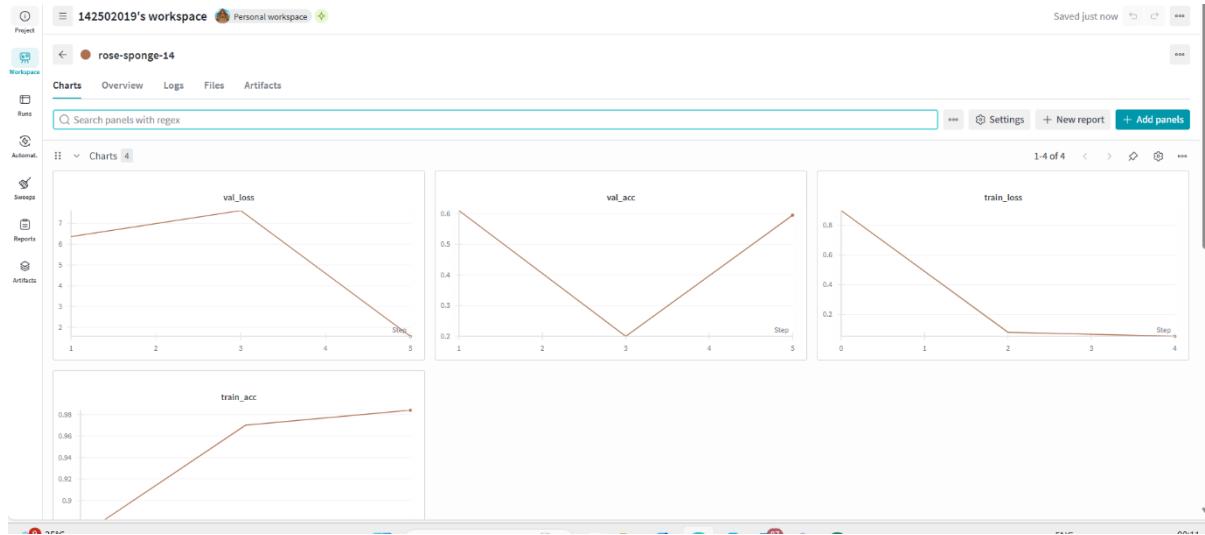


Run summary:

train_acc 0.984
train_loss 0.053
val_acc 0.595
val_loss 1.57557

View run **rose-sponge-14** at: <https://wandb.ai/r2023/tiny-imagenet-resnet/runs/5q9wqmcz>
View project at: <https://wandb.ai/r2023/tiny-imagenet-resnet>
Synced 5 W&B file(s), 0 media file(s), 0 artifact file(s) and 0 other file(s)

Weight and Biases : Chart



Uploading to Hugging face:

```
▶ from huggingface_hub import HfApi

api = HfApi()
api.upload_file(
    path_or_fileobj="resnet_tinyimagenet.pth",
    path_in_repo="resnet_tinyimagenet.pth",
    repo_id="NiranjanIITPKD/tinyimagenet-resnet",
    repo_type="model"
)

Processing Files (1 / 1) : 100% [██████████] 45.2MB / 45.2MB, 16.1MB/s
New Data Upload : 100% [██████████] 45.2MB / 45.2MB, 16.1MB/s
resnet_tinyimagenet.pth : 100% [██████████] 45.2MB / 45.2MB

CommitInfo(commit_url='https://huggingface.co/NiranjanIITPKD/tinyimagenet-resnet/commit/9ca313c3781f96f66a35347beca86ba2253daa95', commit_message='Upload resnet_tinyimagenet.pth with huggingface_hub', commit_description='', oid='9ca313c3781f96f66a35347beca86ba2253daa95', pr_url=None, repo_url=RepoUrl('https://huggingface.co/NiranjanIITPKD/tinyimagenet-resnet'), endpoint='https://huggingface.co', repo_type='model', repo_id='NiranjanIITPKD/tinyimagenet-resnet', pr_revision=None, pr_num=None)
```

Demo Launch in Colab:

Drifted Accuracy:

```
Tracking run with wandb version 0.22
Run data is saved locally in /content/wandb/run-20251102_174316-wvy48f3p
Syncing run drifted\_run to Weights & Biases \(docs\)
View project at https://wandb.ai/r/ir2023/tiny-imagenet-resnet
View run at https://wandb.ai/r/ir2023/tiny-imagenet-resnet/runs/wvy48f3p
wandb: Detected [huggingface_hub.inference, mcp] in use.
wandb: Use W&B Weave for improved LLM call tracing. Install Weave with `pip install weave` then add `import weave` to the top of your script.
wandb: For more information, check out the docs at: https://weave-docs.wandb.ai/
```

Run history:

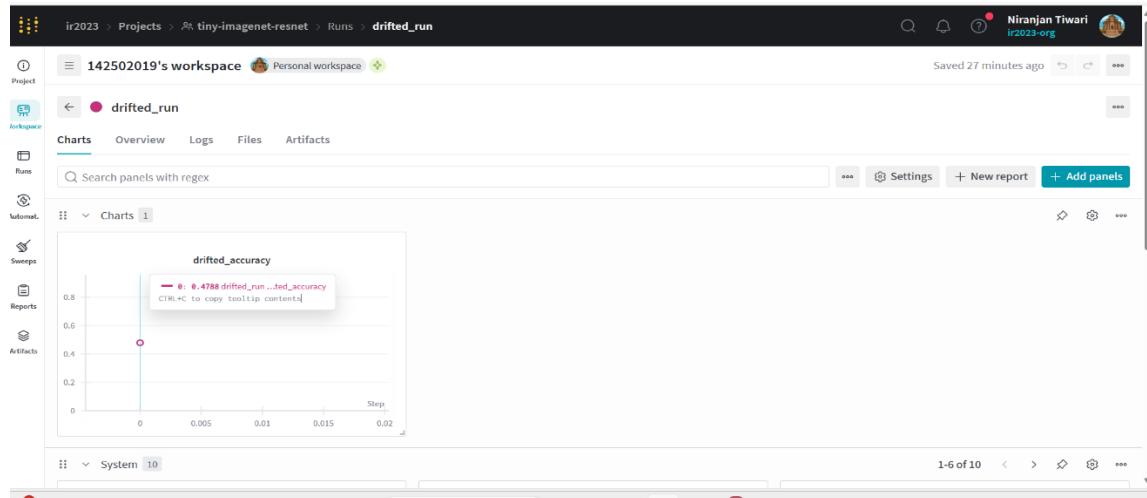
```
drifted_accuracy ...
```

Run summary:

```
drifted_accuracy 0.4788
```

```
View run drifted\_run at https://wandb.ai/r/ir2023/tiny-imagenet-resnet/runs/wvy48f3p
View project at https://wandb.ai/r/ir2023/tiny-imagenet-resnet
Synced 5 W&B file(s), 0 media file(s), 0 artifact file(s) and 0 other file(s)
Find logs at: ./wandb/run-20251102_174316-wvy48f3p/logs
```

Drifted Run Accuracy Plot:



Upload to Hugging face:

```
It seems you are trying to upload a large folder at once. This might take some time and then fail if the folder is too large. For such cases, it is recommended to upload in
WARNING:huggingface_hub.hf_api:It seems you are trying to upload a large folder at once. This might take some time and then fail if the folder is too large. For such cases,
Processing Files (4 / 4) : 100% 348MB / 348MB, 80.9MB/s
New Data Upload : 100% 27.2MB / 27.2MB, 6.48MB/s
.. t/resnet_tinyimagenet.pth: 100% 45.2MB / 45.2MB
.. ample_data/mnist_test.csv: 100% 18.3MB / 18.3MB
.. ata/mnist_train_small.csv: 100% 36.5MB / 36.5MB
.. ent/tiny-imagenet-200.zip: 100% 248MB / 248MB
```



```
Processing Files (1 / 1) : 100% 45.2MB / 45.2MB, 14.6MB/s
New Data Upload : 0.00B / 0.00B, 0.00B/s
resnet_tinyimagenet.pth : 100% 45.2MB / 45.2MB
CommitInfo(commit_url='https://huggingface.co/spaces/NiranjanIITPKD/tinyimagenet-resnet-space/commit/a968b5ec5c07ea56827b6dc021b27bd04d83af7', commit_message='Upload
resnet_tinyimagenet.pth with huggingface_hub', commit_description='', oid='a968b5ec5c07ea56827b6dc021b27bd04d83af7', pr_url=None,
repo_url=RepoUrl('https://huggingface.co/spaces/NiranjanIITPKD/tinyimagenet-resnet-space', endpoint='https://huggingface.co', repo_type='space',
repo_id='NiranjanIITPKD/tinyimagenet-resnet-space'), pr_revision=None, pr_num=None)
```

Deployed Hugging Face Space Run:

Spaces NiranjaniITPKD / **tinyimagenet-resnet-space** like 0 • Running

App Files Community Settings

Tiny ImageNet Classifier

img

output

Class 0

Class 0 12338

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