

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/ir2023/tiny-imagenet-resnet/runs/xzrcut6p>
View project at: <https://wandb.ai/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_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/ir2023/tiny-imagenet-resnet>
View run at <https://wandb.ai/ir2023/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:

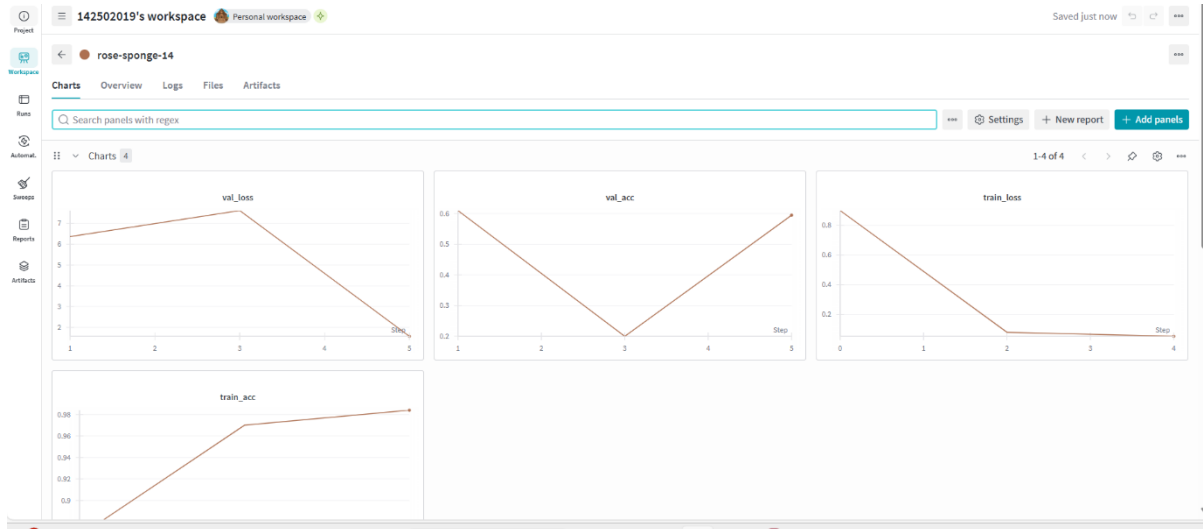
train_acc 
train_loss 
val_acc 
val_loss 

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/ir2023/tiny-imagenet-resnet/runs/5q9wqmcz>
View project at: <https://wandb.ai/ir2023/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', 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:

Mlops_Assignment_6.ipynb

File Edit View Insert Runtime Tools Help

Commands + Code + Text + Run all

Files

- sample_data
- tiny_imagenet
- wandb
- app.py
- resnet_tinyimagenet.pth
- tiny-imagenet-200.zip

Disk 67.73 GB available

demo.launch()

It looks like you are running Gradio on a hosted Jupyter notebook, which requires 'share=True'. Automatically setting 'share=True' (you can turn this off Colab notebook detected. To show errors in colab notebook, set debug=True in launch())

* Running on public URL: <https://331cc79bbf798328a3.gradio.live>

This share link expires in 1 week. For free permanent hosting and GPU upgrades, run 'gradio deploy' from the terminal in the working directory to deploy

Tiny ImageNet ResNet Classifier

image

output

Predicted class ID: 1

Flag

Clear Submit

Variables Terminal

10:22 PM Python 3

Drifted Accuracy:

Tracking run with wandb version 0.22.2
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/ir2023/tiny-imagenet-resnet>
View run at <https://wandb.ai/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:

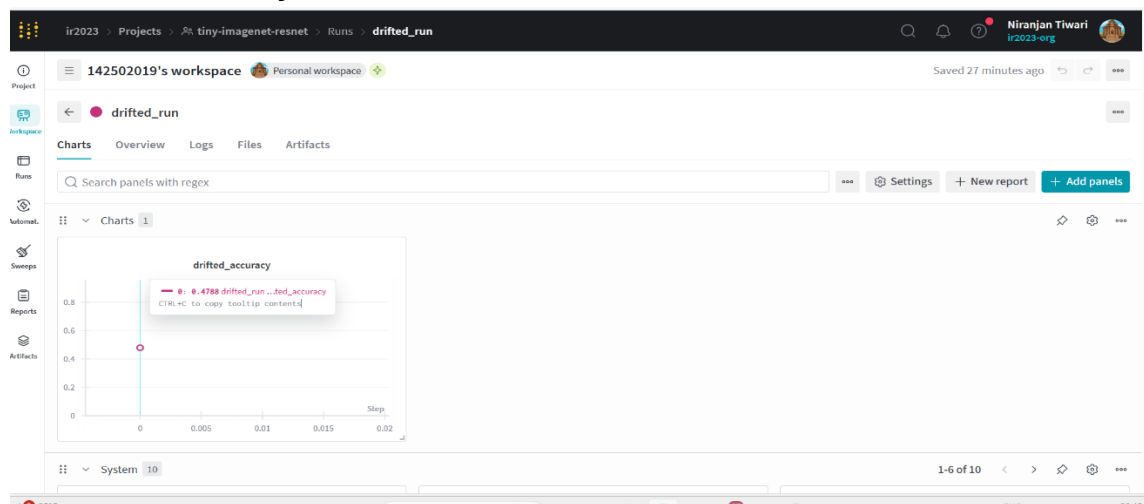
drifted_accuracy _

Run summary:

drifted_accuracy 0.4788

View run **drifted_run** at: <https://wandb.ai/ir2023/tiny-imagenet-resnet/runs/wvy48f3p>
View project at: <https://wandb.ai/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 chunks.

WARNING:huggingface.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, it is recommended to upload in chunks.

Processing Files (4 / 4) : 100% 348MB / 348MB, 80.9MB/s

New Data Upload : 100% 27.2MB / 27.2MB, 6.48MB/s

..tresnet_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/a968b5ec5c07eaa56827b6dc021b27bd04d83af7', commit_message='Upload resnet_tinyimagenet.pth with huggingface_hub', commit_description='', oid='a968b5ec5c07eaa56827b6dc021b27bd04d83af7', 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

NiranjanITPKD


tinyimagenet-resnet-space

like 0

Running

AppFilesCommunitySettings

Tiny ImageNet Classifier

img

output

Class 0

Class 01233%

Share via Link

Clear

Submit

Use via API • Built with Gradio • Settings