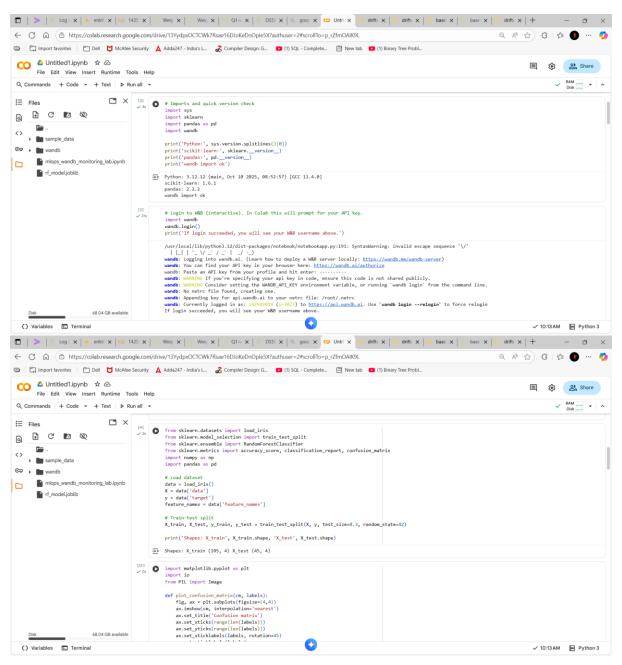
Model Performance Monitoring with Weights & Biases



```
[12]
```

```
# Baseline run
```

baseline_acc,run = train_and_log('baseline-run', n_estimators=50, random_state=42)
run.finish()
baseline_acc


```
accuracy 1
class_0_f1 1
class_0_precision 1
class_0_recall 1
class_1_f1 1
class_1_precision 1
class_1_recall 1
class_2_f1 1
class_2_precision 1
class_2_recall 1
```

View run baseline-run at: https://wandb.ai/ir2023/mlops-performance-monitoring/runs/hpgid05z

View project at: https://wandb.ai/ir2023/mlops-performance-monitoring Synced 5 W&B file(s), 1 media file(s), 0 artifact file(s) and 0 other file(s)

Find logs at ./wandb/run-20251028_043919-hpgid05z/logs

Tracking run with wandb version 0.22.2

Run data is saved locally in /content/wandb/run-20251028_044213-oak8elts

Syncing run baseline-run to Weights & Biases (docs)

View project at https://wandb.ai/ir2023/mlops-performance-monitoring

View run at https://wandb.ai/ir2023/mlops-performance-monitoring/runs/oak8elts

Run baseline-run logged. Accuracy = 1.0000

```
[13]

✓ 4s
```

```
# Drifted run (simulate data shift)
drifted_acc,run = train_and_log('drifted-run', n_estimators=50, random_state=99,
run.finish()
drifted_acc
```

Tracking run with wandb version 0.22.2

Run data is saved locally in /content/wandb/run-20251028_044307-xtpj6mst Syncing run <u>drifted-run</u> to <u>Weights & Biases</u> (docs)

View project at https://wandb.ai/ir2023/mlops-performance-monitoring/runs/xtpj6mst

Run drifted-run logged. Accuracy = 0.6222

Run summary:

```
      accuracy
      0.62222

      class_0_f1
      0.73333

      class_0_precision
      1

      class_0_recall
      0.57895

      class_1_f1
      0.32

      class_1_precision
      0.33333

      class_1_recall
      0.30769

      class_2_f1
      0.74286

      class_2_precision
      0.59091

      class_2_recall
      1
```

View run drifted-run at: https://wandb.ai/ir2023/mlops-performance-monitoring/runs/xtpj6mst

```
# This cell demonstrates programmatic alerting. Replace threshold as appropriate.

drifted_acc,run = train_and_log('drifted-run', simulate_shift=True)
threshold = 0.85

if drifted_acc < threshold:
    wandb.alert(title='Low accuracy detected', text=f'Accuracy {drifted_acc:.3f} print('Alert sent (check W&B)')
else:
    print('Accuracy OK')

run.finish()

Tracking run with wandb version 0.22.2
Run data is saved locally in /content/wandb/run-20251028_044409-s40307wp
Syncing run drifted-run to Weights & Biases (docs)
View project at https://wandb.ai/ri2023/mlops-performance-monitoring
View run at https://wandb.ai/ri2023/mlops-performance-monitoring/runs/s40307wp
Run drifted-run logged. Accuracy = 0.7556
Alert sent (check W&B)
```

Run summary:

 accuracy
 0.75556

 class_0_f1
 0.97297

 class_0_precision
 1

 class_0_recall
 0.94737

 class_1_f1
 0.35294

 class_1_precision
 0.75

 class_1_recall
 0.23077

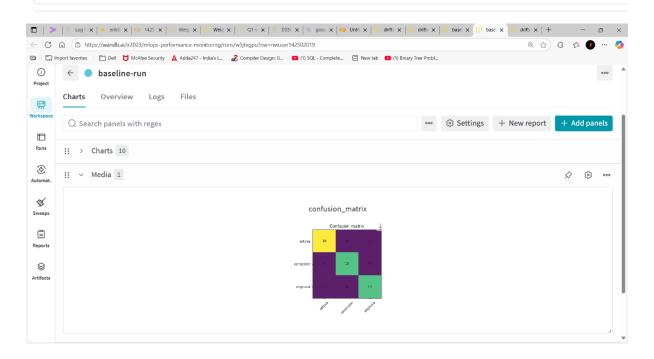
 class_2_f1
 0.72222

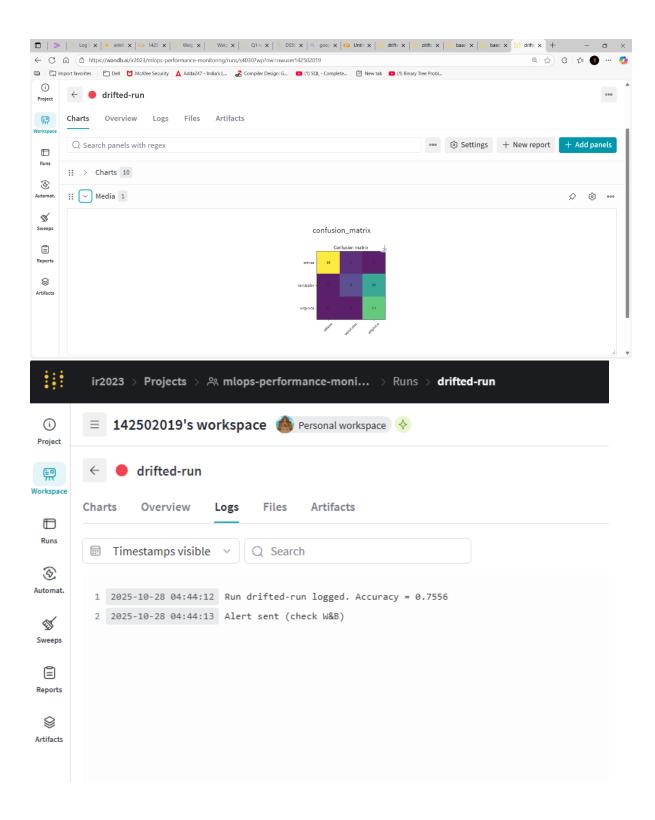
 class_2_precision
 0.56522

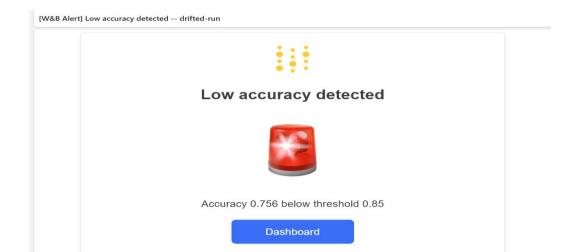
 class_2_recall
 1

View run drifted-run at: https://wandb.ai/ir2023/mlops-performance-monitoring/runs/s40307wp

View project at: https://wandb.ai/ir2023/mlops-performance-monitoring Synced 5 W&B file(s), 1 media file(s), 0 artifact file(s) and 0 other file(s) Find logs at: ./wandb/run-20251028_044409-s40307wp/logs







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