

# FL Simulation Results

File: test1.1\_tf\_Trimmed+Krum

## Federated Learning Configuration

Total Clients (N): 10  
Malicious Clients (M): 1  
Neural Network: Test1.1\_  
Training Rounds: 5  
Poisoned Rounds (R): 5  
Distribution Strategy: first

## Data Poisoning Attack Parameters

Poisoning Operation: Label Flip  
Attack Intensity: 15.0% (0.15)  
Poisoned Data Percentage: 30.0% (0.30)

*Attack Summary: Using label\_flip with 15.0% (0.15) intensity on 30.0% (0.30) of data for 5 rounds with 1 malicious clients.*

## Simulation Results

Init Accuracy: 0.0000  
Clean Accuracy: 0.8653  
Poisoned Accuracy: 0.6934  
Poisoned + DP Protection Accuracy: 0.6649  
Drop (Clean - Poisoned): 0.1719  
Drop (Clean - Init): 0.8653  
Drop (Poisoned - Init): 0.6934  
Drop (Poisoned DP - Init): 0.6649  
DP Protection Method: trimmed\_mean\_krum  
GPU Used: GPU 1

### Confusion Matrix Metrics (Weighted Avg):

Clean Precision: 0.8653

Clean Recall: 0.8653

Clean F1 Score: 0.8648

Poisoned Precision: 0.6906

Poisoned Recall: 0.7160

Poisoned F1 Score: 0.7003

DP Protection Precision: 0.6939

DP Protection Recall: 0.6822

DP Protection F1 Score: 0.6832

## Summary

FL Simulation Complete

Task: 49d218e4-af09-4628-a44a-f84e79254504

GPU: GPU 1

Init Accuracy: 0.0000

Clean Accuracy: 0.8653

Poisoned Accuracy: 0.6934

Data Poison Protection Accuracy: 0.6649

Drop (Clean - Poisoned): 0.1719

Drop (Clean - Init): 0.8653

Drop (Poisoned - Init): 0.6934

Drop (Poisoned\_DP - Init): 0.6649

Data Poison Protection Method: trimmed\_mean\_krum

--- Confusion Matrix Metrics (Weighted Avg) ---

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