

# FL Simulation Results

File: test1.3

## Federated Learning Configuration

Total Clients (N): 10  
Malicious Clients (M): 5  
Neural Network: MyNN  
Training Rounds: 5  
Poisoned Rounds (R): 3  
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 3 rounds with 5 malicious clients.*

## Simulation Results

Init Accuracy: 0.8807  
Clean Accuracy: 0.5692  
Poisoned Accuracy: 0.2644  
Poisoned + DP Protection Accuracy: 0.2533  
Drop (Clean - Poisoned): 0.3048  
Drop (Clean - Init): -0.3115  
Drop (Poisoned - Init): -0.6163  
Drop (Poisoned DP - Init): -0.6274  
DP Protection Method: fedavg  
GPU Used: GPU 0

### Confusion Matrix Metrics (Weighted Avg):

Clean Precision: 0.7335  
Clean Recall: 0.5692  
Clean F1 Score: 0.5629  
  
Poisoned Precision: 0.7932  
Poisoned Recall: 0.2357  
Poisoned F1 Score: 0.2178  
  
DP Protection Precision: 0.7981  
DP Protection Recall: 0.2251  
DP Protection F1 Score: 0.2251

## Summary

FL Simulation Complete  
Task: 7f1923e0-4bd3-4bb4-8c5d-72bd5c0c614c  
GPU: GPU 0  
Init Accuracy: 0.8807  
Clean Accuracy: 0.5692  
Poisoned Accuracy: 0.2644  
Data Poison Protection Accuracy: 0.2533  
Drop (Clean - Poisoned): 0.3048  
Drop (Clean - Init): -0.3115  
Drop (Poisoned - Init): -0.6163  
Drop (Poisoned\_DP - Init): -0.6274  
Data Poison Protection Method: fedavg  
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