Aggregation Algorithms

⚖️ Weighted Average

$$w\_global = \Sigma(n\_i/N \times w\_i)$$

w₁ w₂ w₃

Weight by dataset size

🎯 FedAvg

Most popular algorithm

⭐⭐⭐⭐⭐

Simple & effective

🔧 FedProx

Adds proximal term

➕ μ term

Handles heterogeneity

Aggregation Process

Collect
updates
→
Verify
integrity
→
Apply
weights
→
Merge
models
→
Validate
quality
→
Distribute
global model