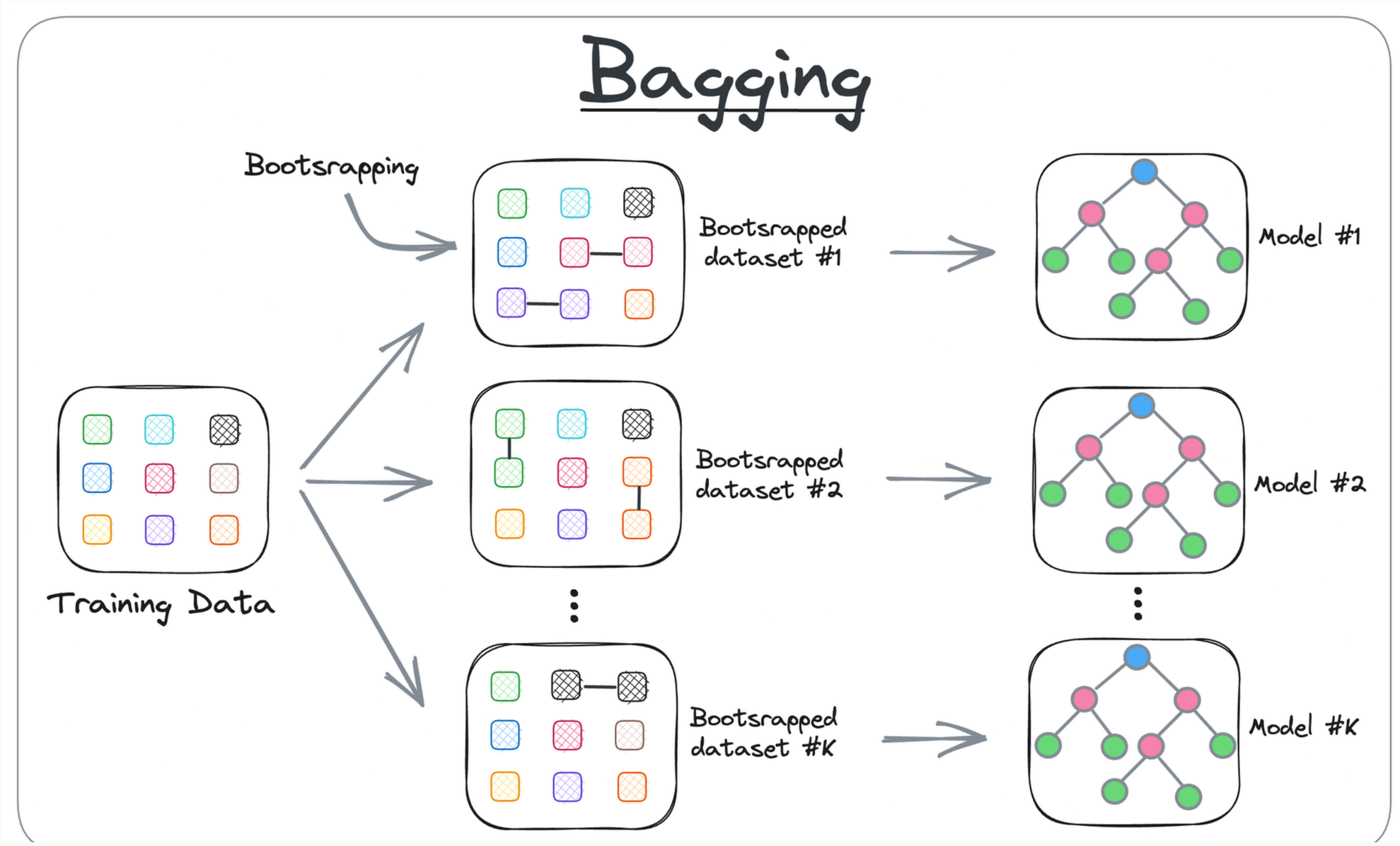
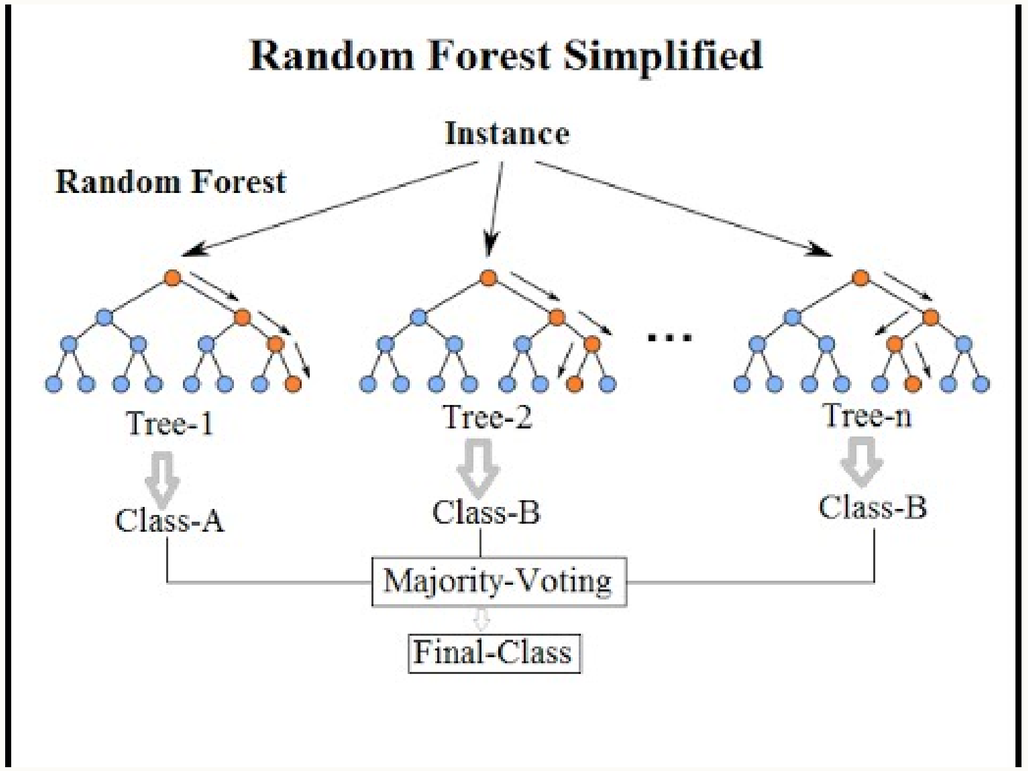
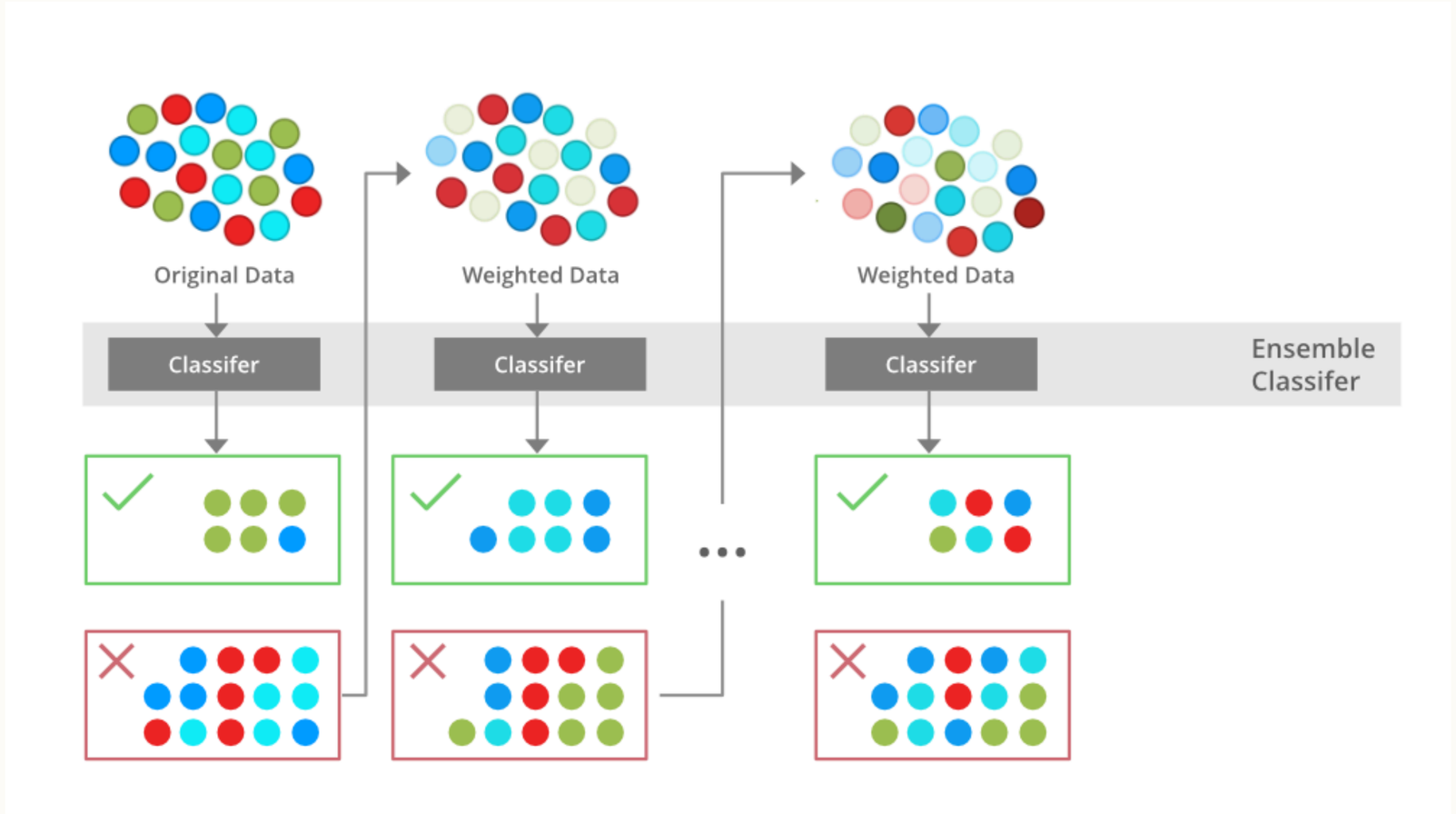
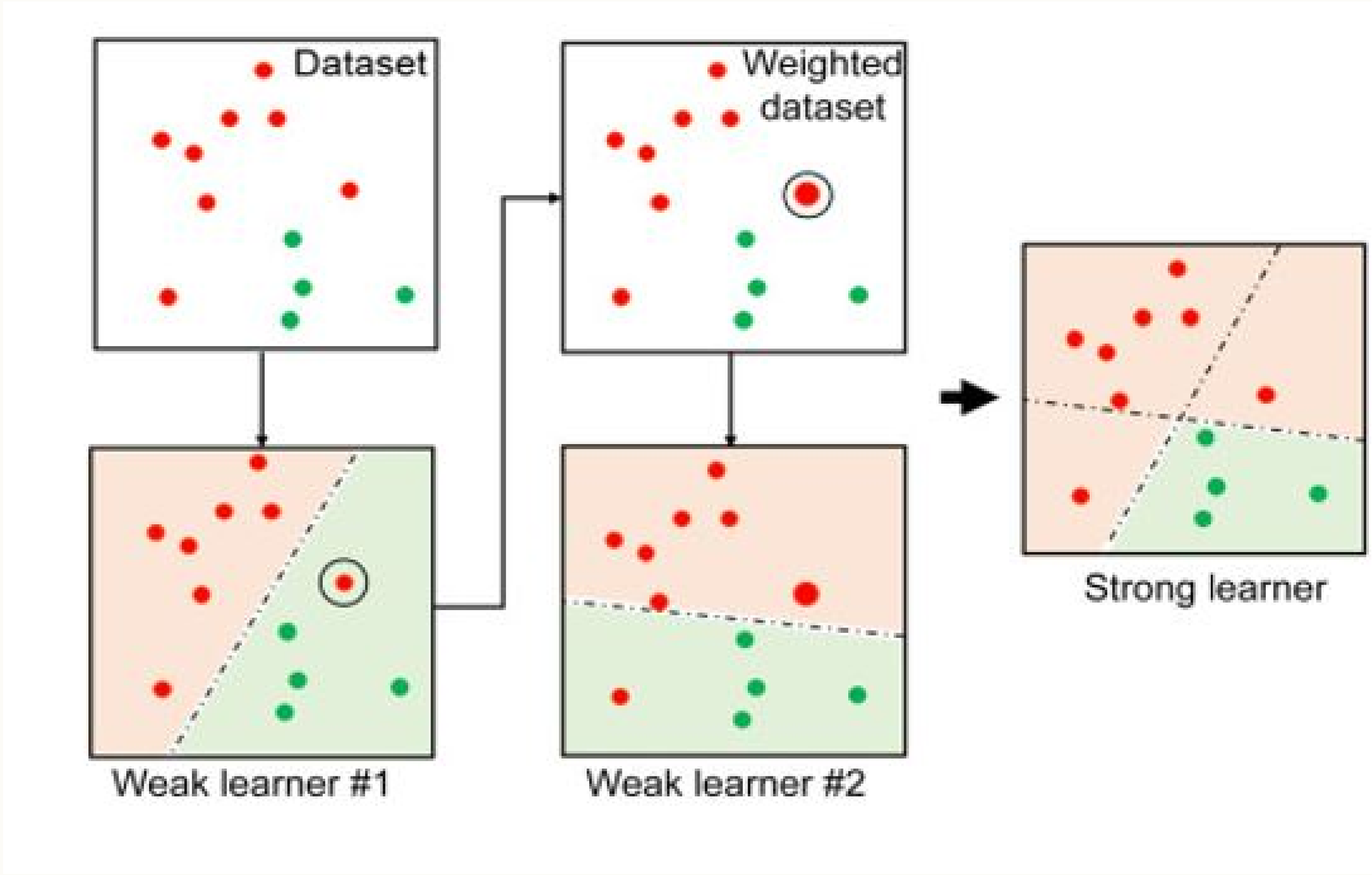
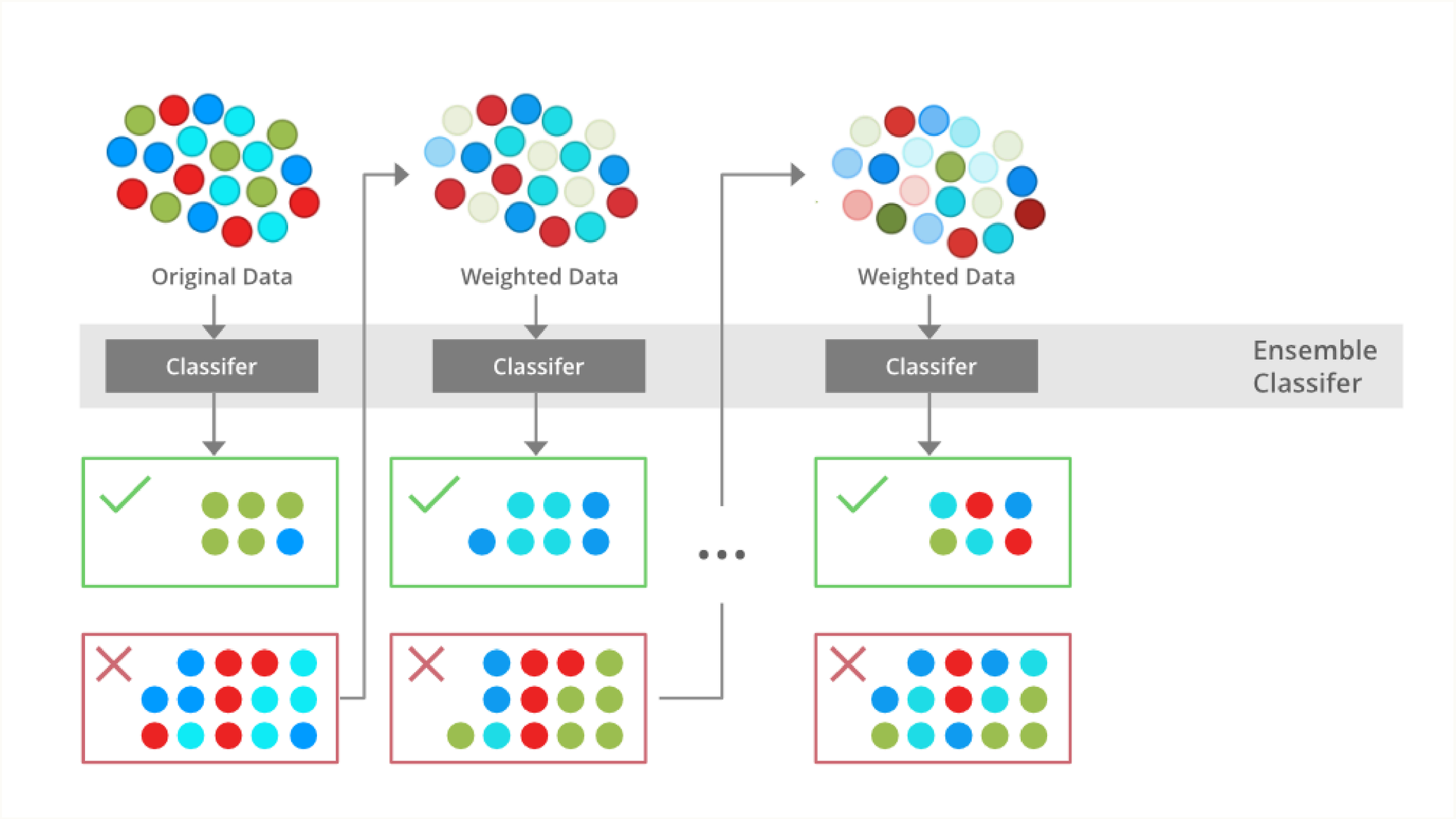
LÝ THUYẾT

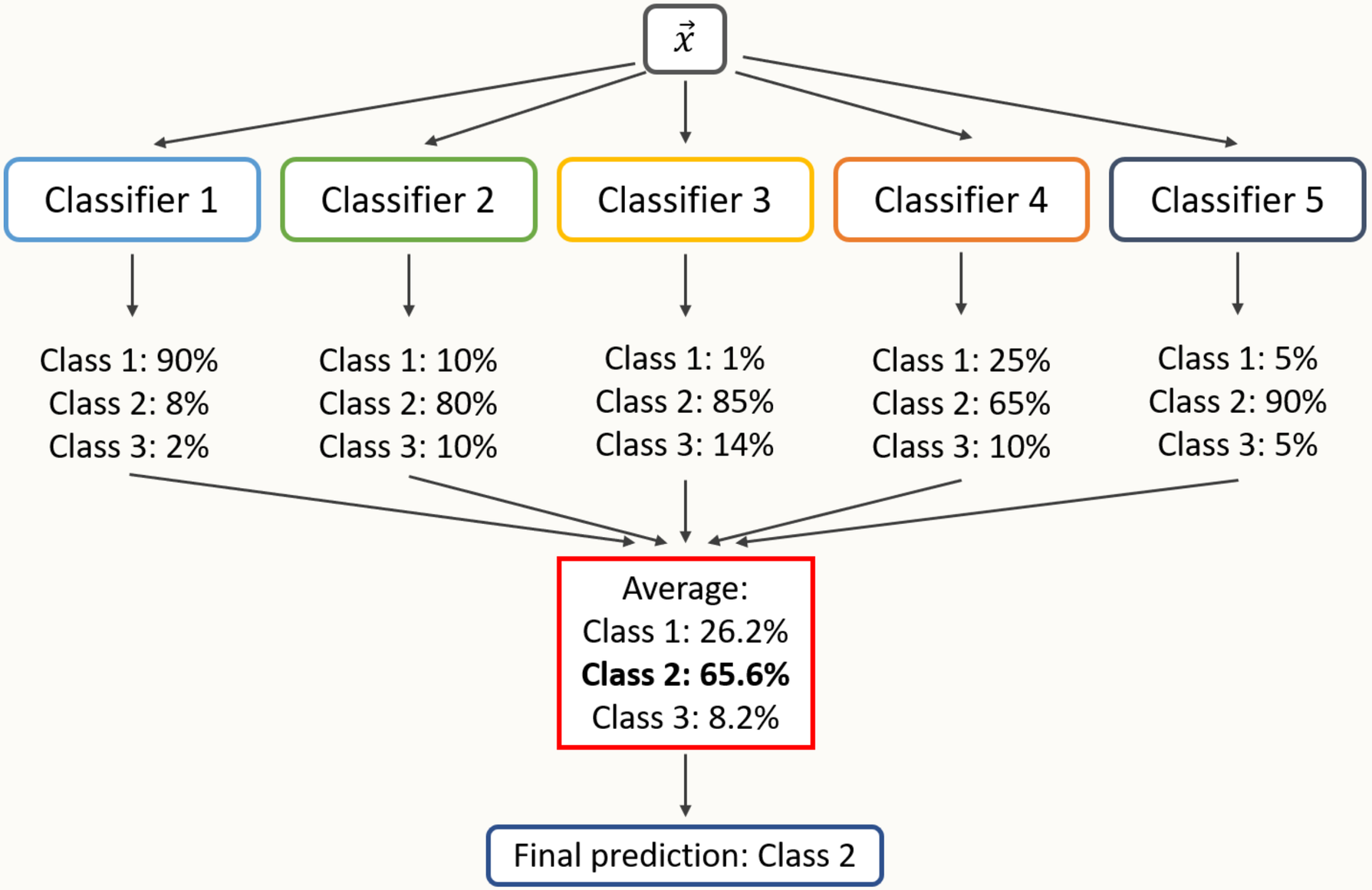

Bagging
Bootsrapping
Training Data
Bootsrapped dataset #1
Bootsrapped dataset #2
Bootsrapped dataset #K
Model #1
Model #2
Model #K

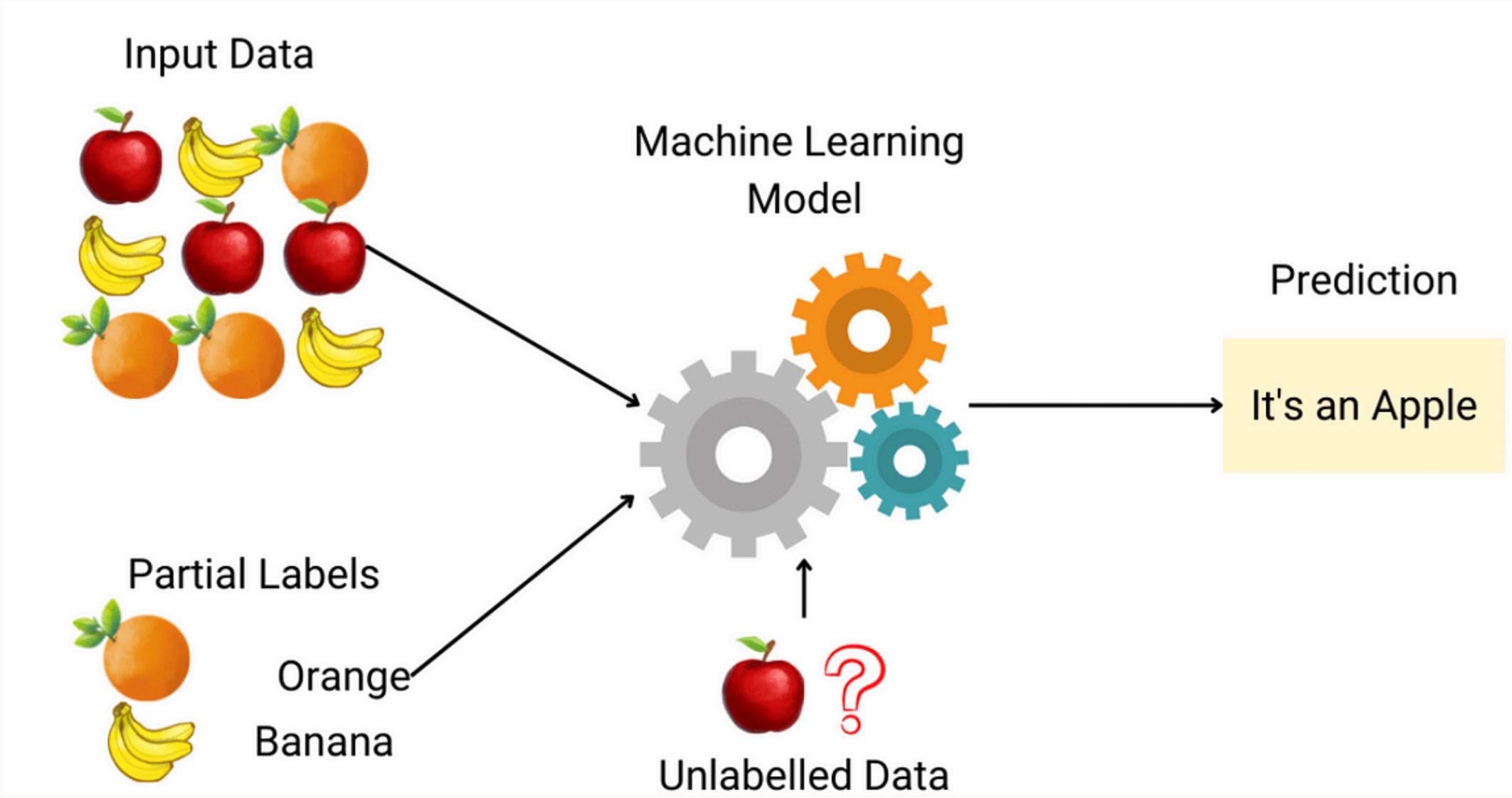

Random Forest Simplified
Instance
Random Forest
Tree-1
Tree-2
Tree-n
Class-A
Class-B
Class-B
Majority-Voting
Final-Class


Original Data
Weighted Data
Weighted Data
Classifer
Classifer
Classifer
Ensemble
Classifer

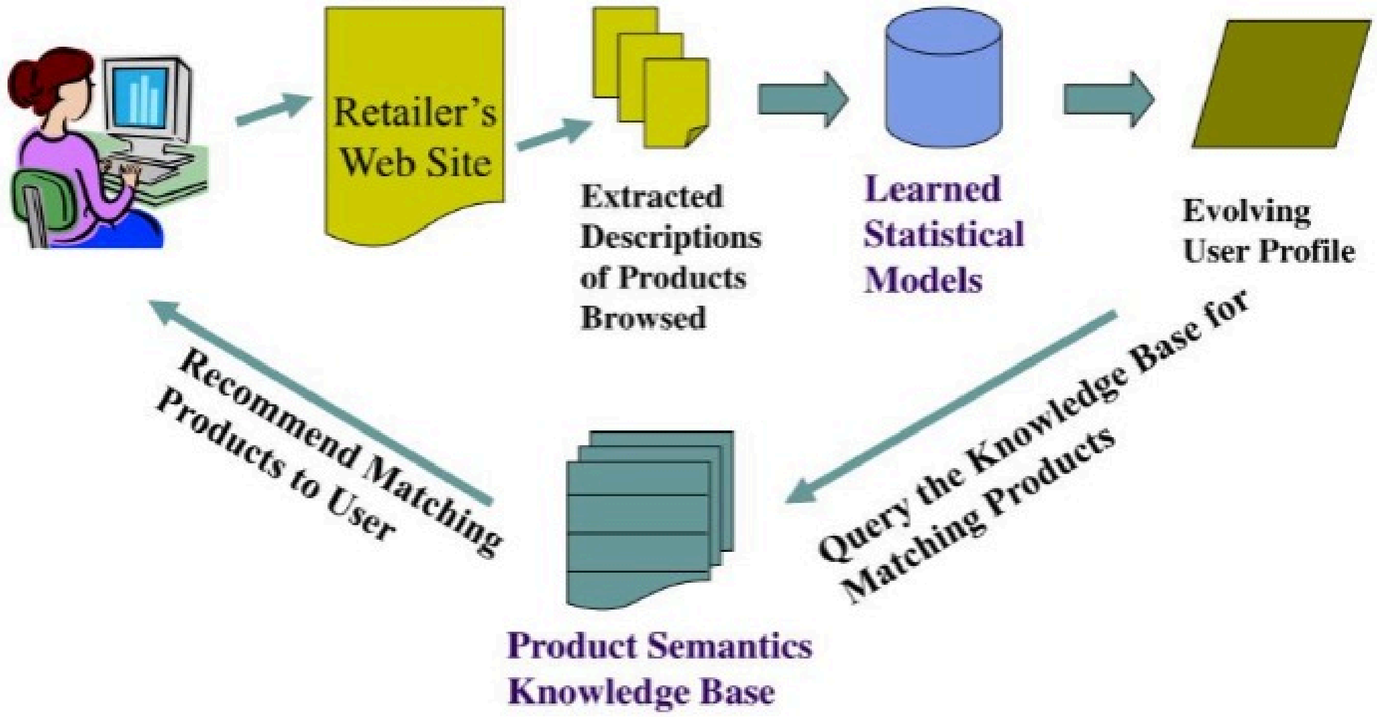

Dataset
Weighted dataset
Strong learner
Weak learner #1
Weak learner #2


Original Data
Weighted Data
Weighted Data
Classifer
Classifer
Classifer
Ensemble
Classifer

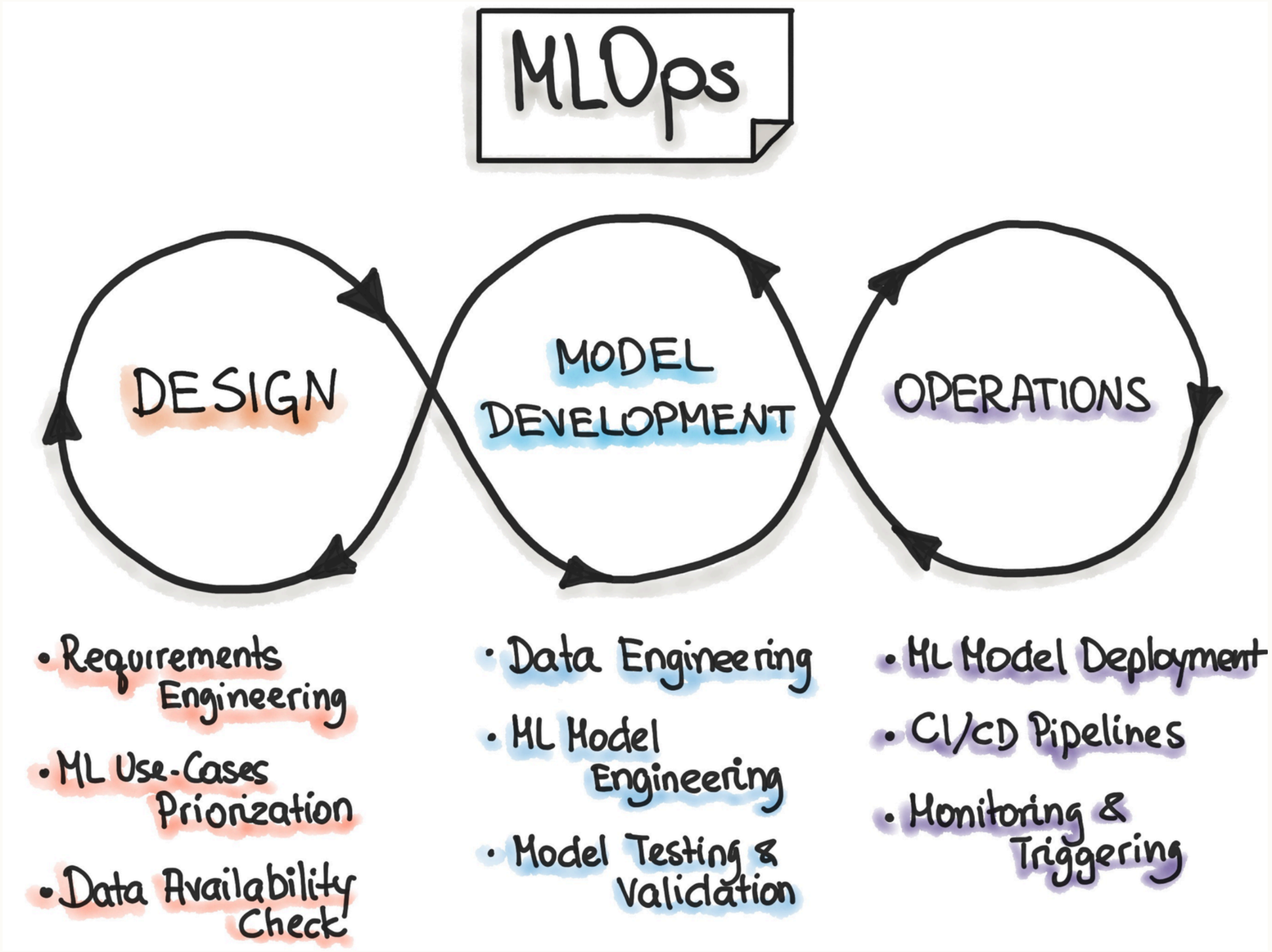

$\vec{x}$
Classifier 1
Classifier 2
Classifier 3
Classifier 4
Classifier 5
Class 1: 90%
Class 2: 8%
Class 3: 2%
Class 1: 10%
Class 2: 80%
Class 3: 10%
Class 1: 1%
Class 2: 85%
Class 3: 14%
Class 1: 25%
Class 2: 65%
Class 3: 10%
Class 1: 5%
Class 2: 90%
Class 3: 5%
Average:
Class 1: 26.2%
Class 2: 65.6%
Class 3: 8.2%
Final prediction: Class 2


Input Data
Machine Learning Model
Prediction
It's an Apple
Partial Labels
Orange
Banana
Unlabelled Data

Recommender System



accenture


MLOps
DESIGN
MODEL DEVELOPMENT
OPERATIONS
• Requirements Engineering
• ML Use-Cases Priorization
• Data Availability Check
• Data Engineering
• ML Model Engineering
• Model Testing & Validation
• ML Model Deployment
• CI/CD Pipelines
• Monitoring & Triggering