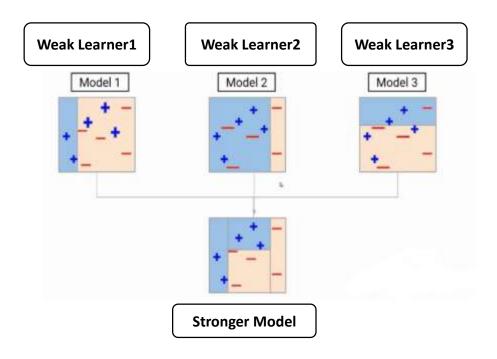


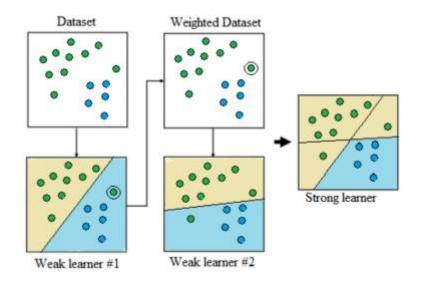
Ada Boost (or) Adaptive Boosting



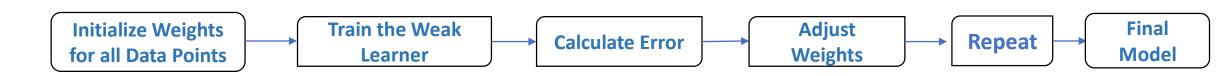
- AdaBoost (Adaptive Boosting) is an ensemble learning method that combines multiple weak learners to create a stronger model.
- AdaBoost algorithm works by training weak learners in a sequence and focusing on correcting mistakes made in earlier steps

How Does AdaBoost Work?

• The AdaBoost algorithm works by training weak learners in a sequence and focusing on correcting mistakes made in earlier steps.



simple breakdown of the process:



AdaBoost Algorithm Parameters

Number of Weak Learners

○ Base Estimator

○ Learning Rate

Loss Function

Advantages of AdaBoost

- ☐ Improved Accuracy
- Adaptability
- ☐ Ease of Implementation
- ☐ Handles Imbalanced Datasets

Disadvantages of AdaBoost

- Sensitive to Noisy Data
- Computationally Intensive
- Overfitting
- Limited Flexibility with Weak Learners