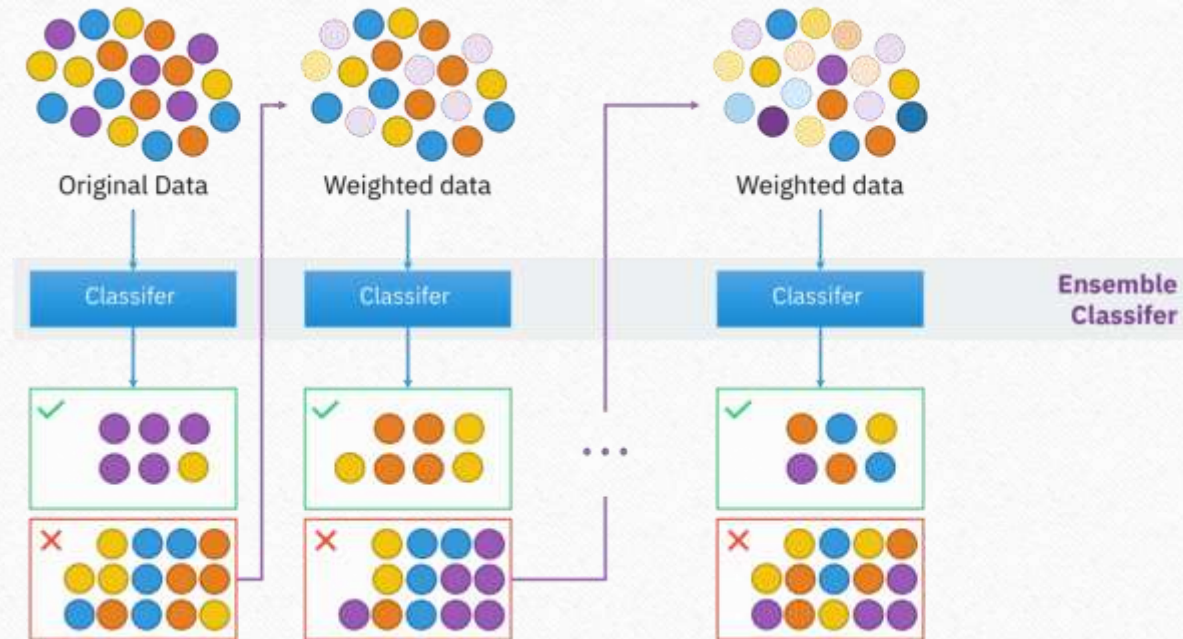# AdaBoost Regression

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AdaBoost Regression

Introduction to AdaBoost:

•AdaBoost stands for Adaptive Boosting.

•It is a type of ensemble learning technique used to improve the performance of

machine learning models.

Principle of AdaBoost Regression:

•Combines multiple weak learners to form a strong learner.

•Iteratively adjusts the weights of training instances based on the error of

the previous model.

Advantages:

•**Improved Accuracy:**

Boosts the performance of weak learners.

•**Adaptability:**

Adjusts to errors and focuses on difficult-to-predict instances.

•**Flexibility:**

Can be used with various base learners

Disadvantages:

- **Sensitive to Noisy Data:**

    Performance can degrade with outliers.

- **Computational Cost:**

    More computationally intensive than single models due to iterative nature.

- **Overfitting:**

    Can overfit if not carefully managed, especially with complex models.

Thank You

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