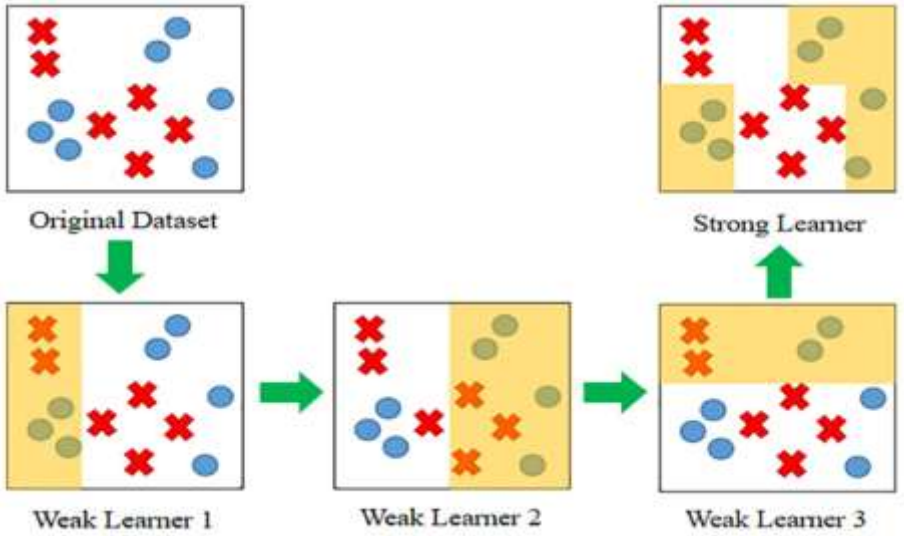
Boosting Algorithm

What is Boosting Algorithm ?



- Boosting is a machine learning strategy that combines numerous **weak learners** into **strong learners** to increase **model accuracy.**

- Boosting **improves** machine models **predictive accuracy** and **performance**

Why is boosting important?

- Boosting **improves** machine models **predictive accuracy** and **performance** by converting **multiple weak learners** into a single **strong learning model.**

Weak Learners

- Weak learners have low prediction accuracy.

Strong Learners

- Strong learners have higher prediction accuracy.
- Boosting converts a system of weak learners into a single strong learning system.

What are the benefits of boosting?

- ✓ Improved Accuracy
- ✓ Handles Complex Data
- ✓ Adaptability
- ✓ Flexibility
- ✓ Feature Importance

What are the types of Boosting Algorithm ?

- ❑ Ada Boost (or) Adaptive boosting
- ❑XG Boosting
- ❑LG Boosting