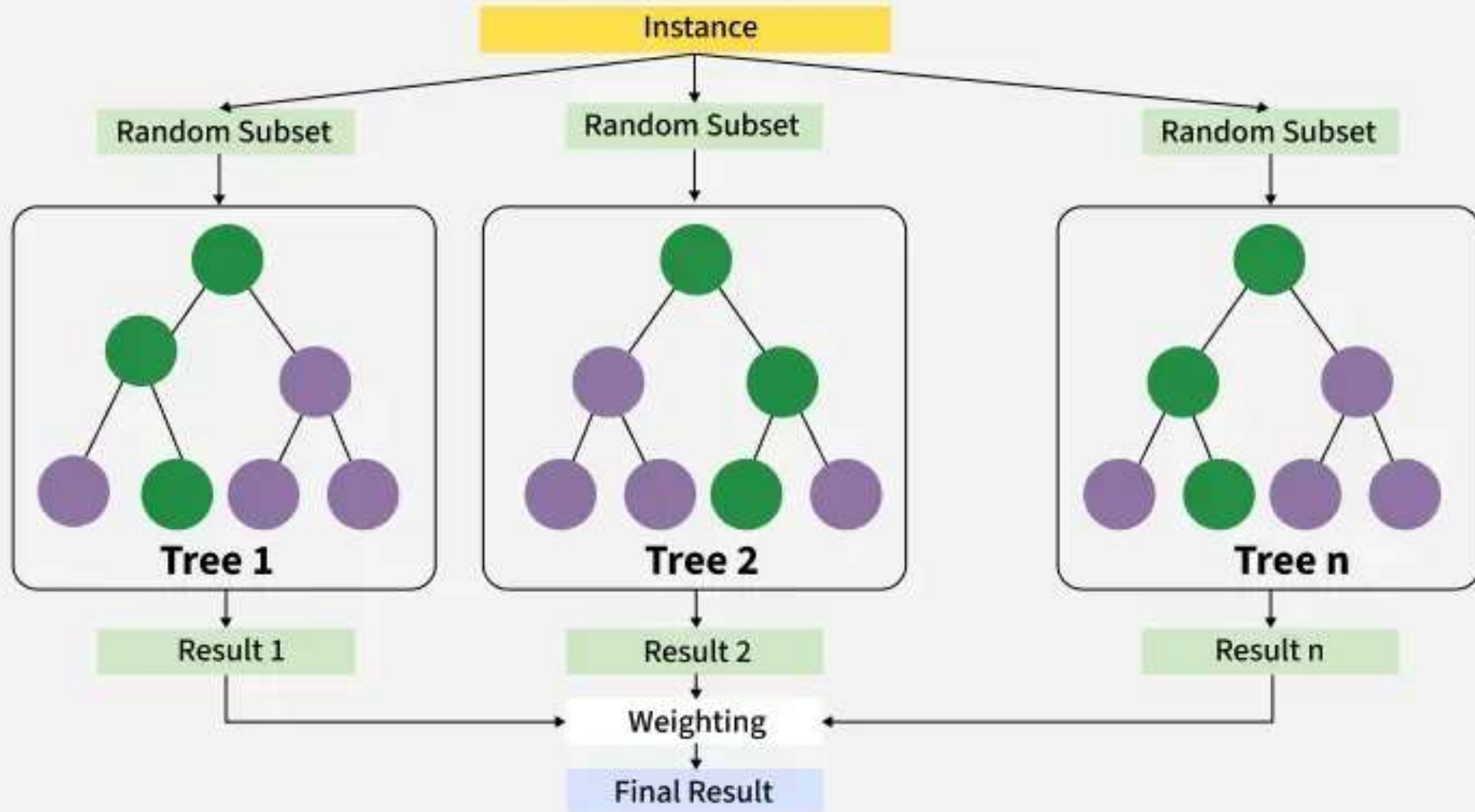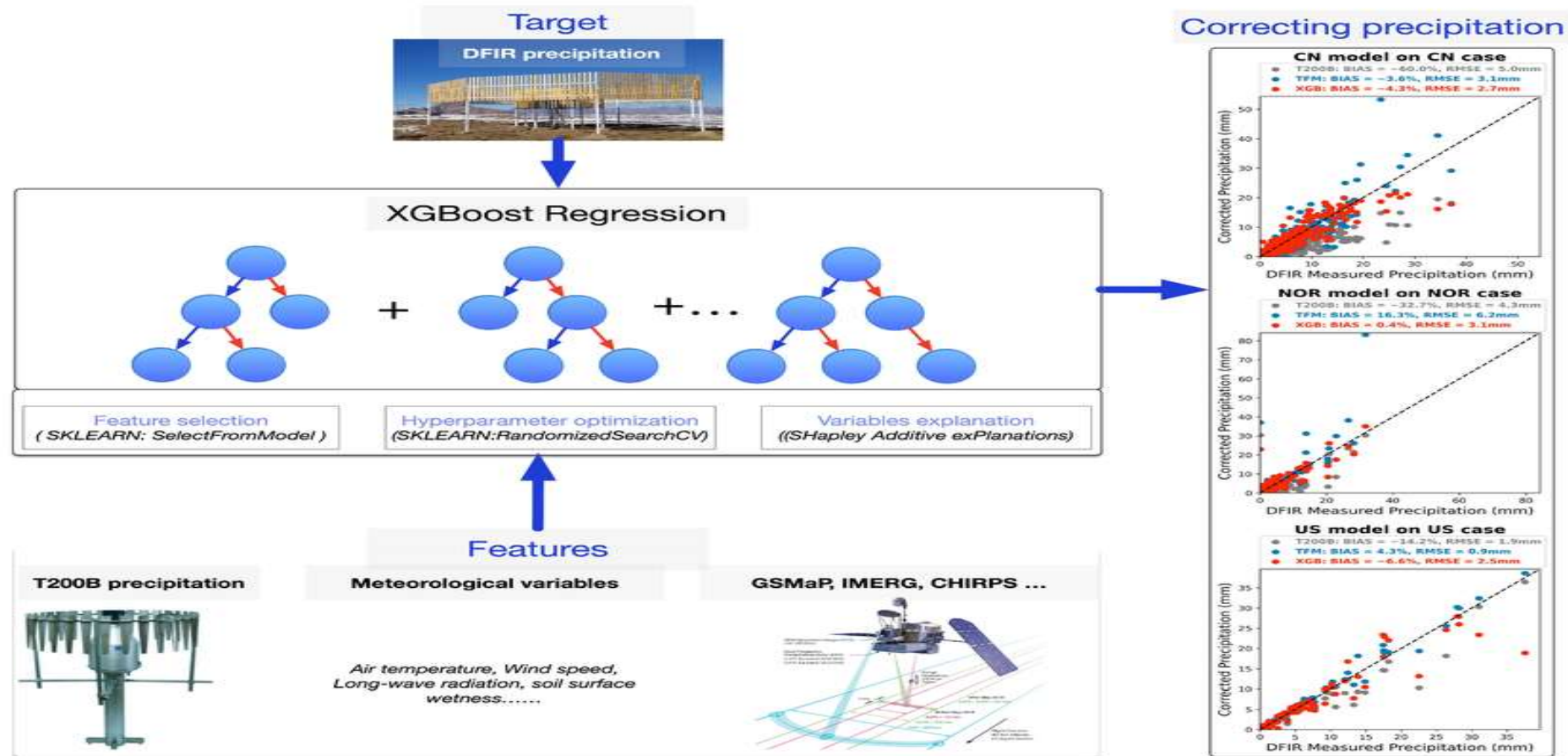# XGBoost Algorithm in Machine Learning

❖ Regularization to prevent overfitting.

❖ Parallel processing for faster computation.

❖ Handles missing data efficiently.

❖ Combines weak learners (decision trees) to form a strong learner.
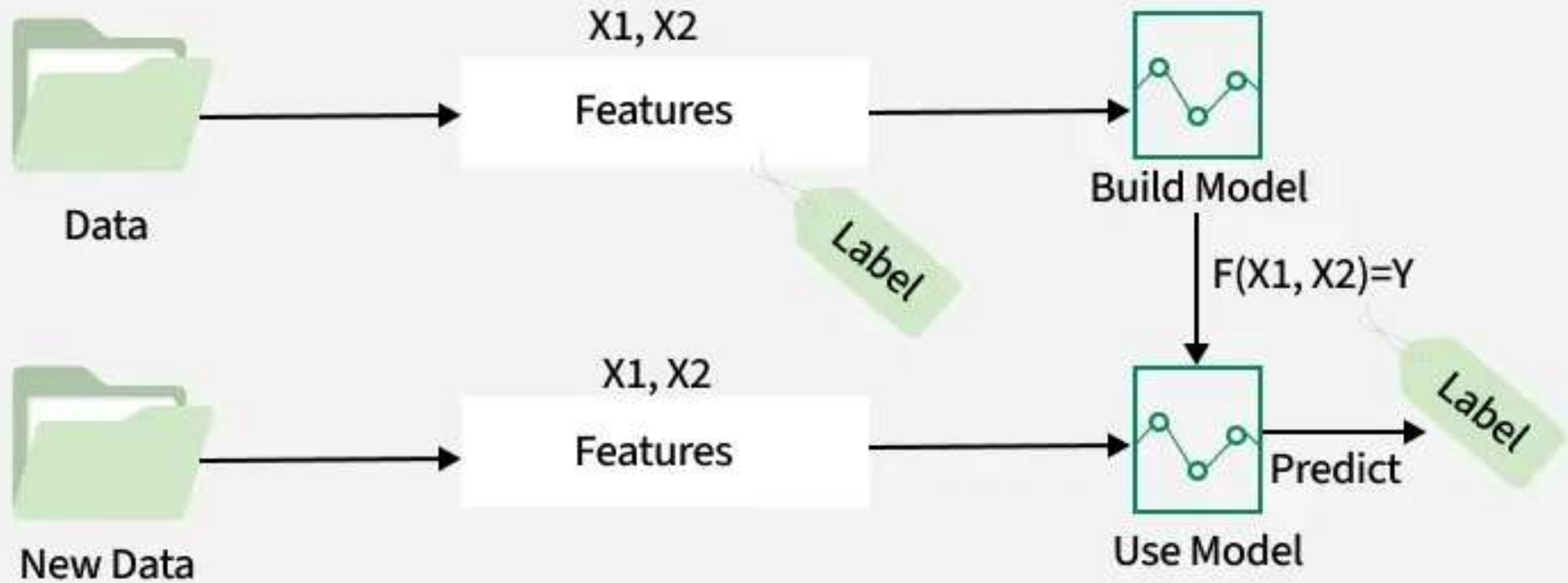
❖ Minimizes loss function iteratively.

XGBooster Regression

XGBoost Algorithm for Regression in ML

XGBoosting Algorithm Creating Model

Objectives of XGBoosting Algorithm

➢Weighted quantile sketch for handling sparse data.

➢Tree pruning for optimal depth.

➢Built-in cross-validation.

➢Summarize the importance of XGBoost in modern machine learning.

➢Highlight its scalability and performance