recentulia and a

(Tree ensembles - XGBoost)

- * Boosted trees intattion
- => Given training set of size m

For b = 1 to B:

- Using sampling with replacement to create a new training set of size m But instead of picking from all examples with equal (1/m) probability, make it more likely to pick examples that the previously trained trees missclassify.
- Train a decision tree on the new dataset.
-) sampling with replacement = 504 M34 thaining set 1818
- ii) Here training set = 534 decision thee 1811
- iii) original training sets decision tree의 inputes 3HKH 8HC decision tree> original training examples 한 神经就是2] 即
- iv) as for loop on the 野山 sampling with replacement and Must training sets Mately, iii) on the Mars of sets what example on with higher chances that picket 25至 \$

=> "Boosting"

- * XGBoost (extreme Gradient Boosting)
- Open Source
- Fast efficient implementation
- Good choice of default splitting criteria and criteria for when to stop splitting
- Built in regularization to prevent overfitting
- Highly competitive algorithm for machine learning competition