A Beginner's Guide to XGBoost

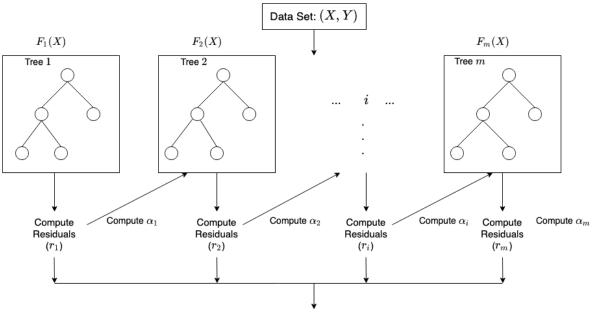
https://towardsdatascience.com/a-beginners-guide-to-xgboost-87f5d4c30ed7

XGBoost + k-fold CV + Feature Importance

https://www.kaggle.com/code/prashant111/xgboost-k-fold-cv-feature-importance/notebook

XGBoost with Python: Gradient Boosted Trees with XGBoost and scikit-learn https://b-ok.cc/book/5005189/f7c6c0

https://docs.aws.amazon.com/sagemaker/latest/dg/xgboost-HowltWorks.html Image inside article:



 $F_m(X) = F_{m-1}(X) + \alpha_m h_m(X, r_{m-1}),$

where $lpha_i$, and r_i are the regularization parameters and residuals computed with the i^{th} tree respectfully, and h_i is a function that is trained to predict residuals, r_i using X for the i^{th} tree. To compute $lpha_i$ we use the residuals computed, r_i and compute the following: $arg \min_{\alpha} = \sum_{i=1}^{m} L(Y_i, F_{i-1}(X_i) + \alpha h_i(X_i, r_{i-1}))$ where

L(Y, F(X)) is a differentiable loss function.

XG Boost: A Scalable Tree Boosting System

https://arxiv.org/pdf/1603.02754.pdf

Video with a simple explanation of XG Boost:

https://www.youtube.com/watch?v=PxqVFp5a0E4

Scikit Learn Documentation on Decision Trees.

https://scikit-learn.org/stable/modules/tree.html#classification

Mastering XGBoost

https://towardsdatascience.com/mastering-xgboost-2eb6bce6bc76

XGBoost documentation/Notes on Parameter Tuning:

https://xgboost.readthedocs.io/en/latest/tutorials/param_tuning.html

Model Tuning and Feature Engineering

https://towardsdatascience.com/model-tuning-feature-engineering-using-xgboost-ef819bccc82e