An Introduction to XGBoost R package

XGBoost is a machine learning library originally written in C++ and ported to R in the xgboost R package. Over the last few years, xgboost has become the go-to machine learning library for many data scientists. François Chollet and JJ Allaire summarize the value of XGBoost in the R Programming and Machine Learning book:

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XGBoost is widely used for kaggle competitions. The reason to choose XGBoost includes:
- Easy to use
- Efficiency
- Accuracy
- Flexibility
- Easy to install
- Highly developed R package interface

In this tutorial, we will provide a Beginners Tutorial on XGBoost and Parameter Tuning in R. To run this tutorial, you will need:
- The xgboost R package installed in R
- A basic understanding of R programming

The xgboost R package includes several functions, which are beyond the scope of this tutorial. We will focus on the following functions:

- `xgb.importance()`: This function calculates the importance of features in the model.
- `xgb.plot.importance()`: This function plots the importance of features.
- `xgb.plot.raw()`: This function plots the raw data.
- `xgb.plot.tree()`: This function plots the decision tree.

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