Objectives

This tutorial is meant to introduce pomodoro package using a case study. The goal of pomodoro is to provide functions to make predictive modeling easy.

Dataset

ADD LATEX TABLES https://bookdown.org/yihui/rmarkdown/pdf-document.html Some text

Some text

Table 1: Transformations Associated with the Johnson System

Johnson Family	Transformation	Parameter Conditions	X Condition
S_B	$Z = \gamma + \eta ln(\frac{X-\epsilon}{\lambda+\epsilon-X})$	$\eta, \lambda > 0, -\infty < \gamma, \epsilon < \infty$	$\epsilon < X < \epsilon + \lambda$
S_L	$Z = \gamma + \eta ln(X - \epsilon)$	$\eta > 0, -\infty < \gamma, \epsilon < \infty$	$X > \epsilon$
S_U	$Z = \gamma + \eta \sinh^{-1}(\frac{X-\epsilon}{\lambda})$	$\eta, \lambda > 0, -\infty < \gamma, \epsilon < \infty$	$-\infty < X < \infty$

Overview

Package `pomodoro` runs bagging, boosting, random forest, multinominal logistic and logistic models. The purpose of this package is to report the predictive modelling results with ease.

Installation

You can install the released version of pomodoro from CRAN with:

```
install.packages("pomodoro")
library(pomodoro)
```

Building a Selected Model

After the cleaning the data set... blabla

Selecting Dependent Variables

xvar

Selecting Independent Variables

yvar

```
 yvar <- c("Loan.Type") #or yvar <- c("multi.level")
 xvar <- c("sex", "married", "age", "havejob", "educ", "political.afl",
 "rural", "region", "fin.intermdiaries", "fin.knowldge", "income")
 set.seed(123)
 BchMk.RF <- RF_Model(sample_data, xvar, yvar)
```

Estimated Models

To model all the data set and its splits, interchangeably with 3 assets owning variable.

```
CCP.RF <- Estimate_Models(sample_data, yvar, xvec = xvar, exog = "political.afl",
 xadd = c("networth", "networth_homequity", "liquid.assets") ,
 type = "RF", dnames = c("0","1"))
```

Combined Performance

To find combined model performance.

```
Sub.CCP.RF <- list(Mdl.1 = CCP.RF$EstMdl$`D.1 + networth`,
Mdl.0 = CCP.RF$EstMdl$`D.0 + networth`)
CCP.NoCCP.RF <- Combined_Performance(Sub.CCP.RF)
```

Have Fun!