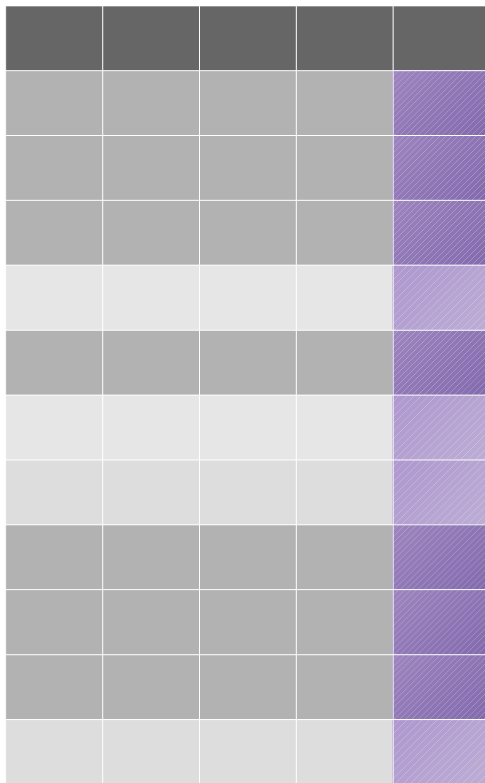
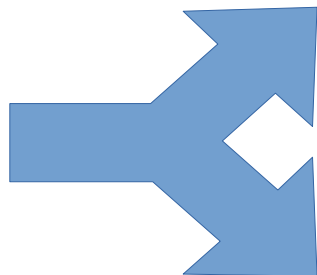


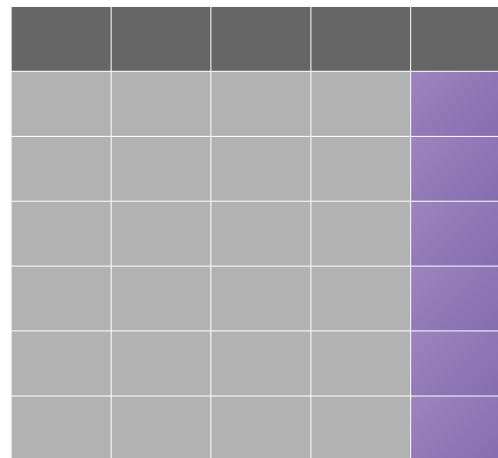
Full Data Set



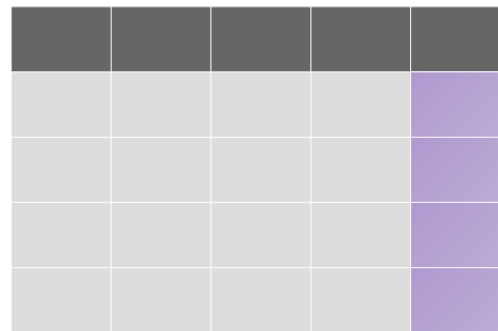
Split into Train & Test



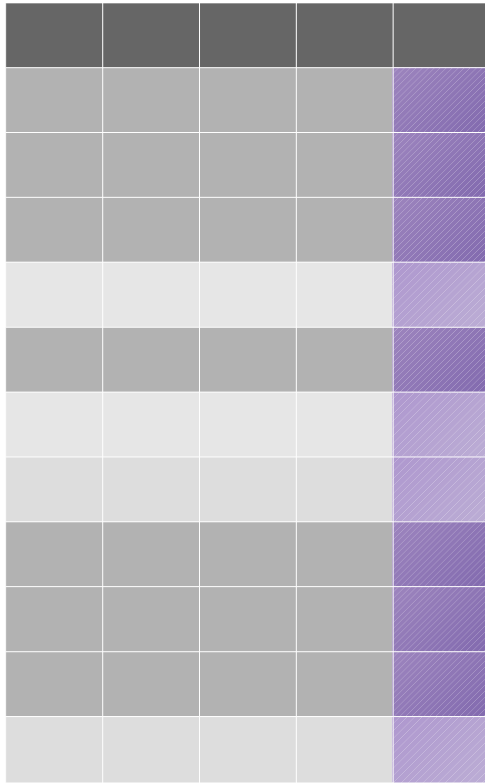
Training Data Set



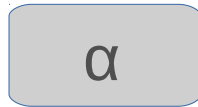
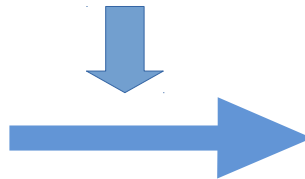
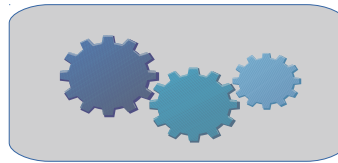
Test / Holdout Data Set



Data Set D



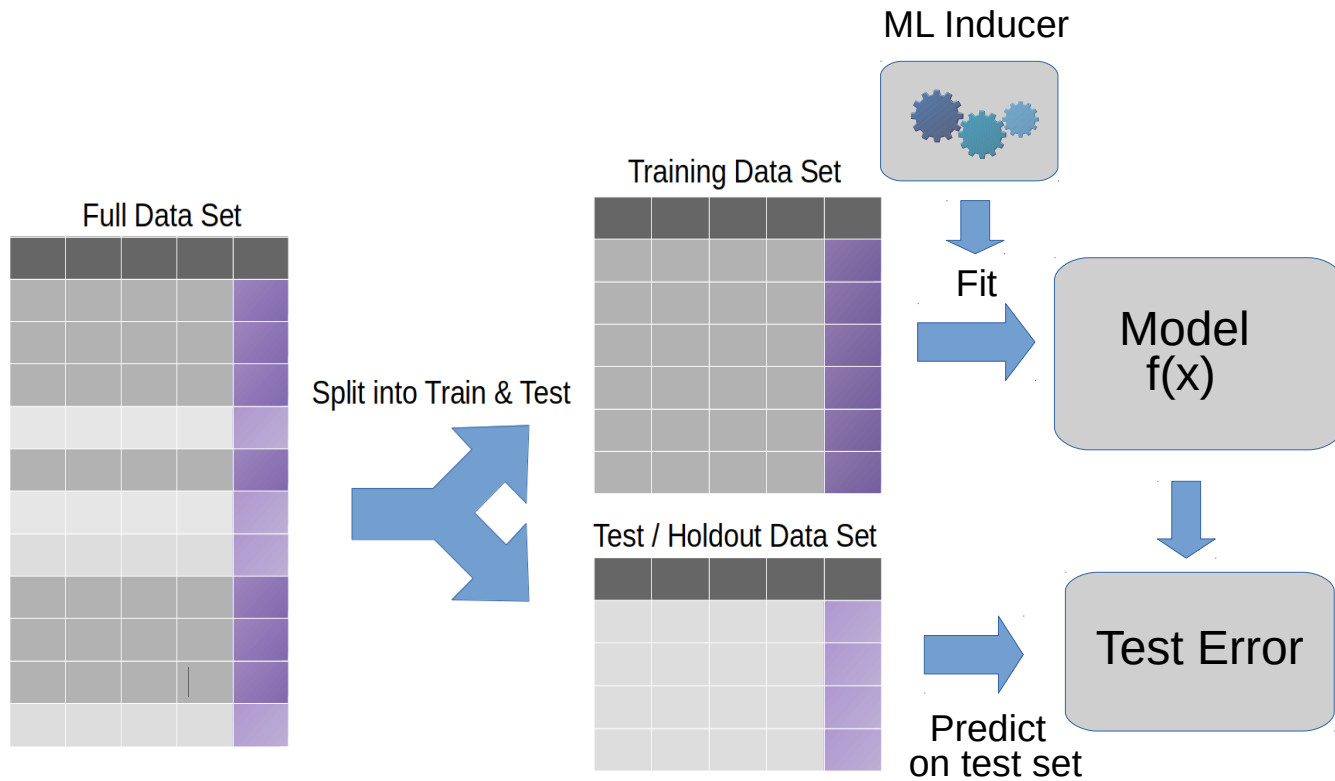
ML Inducer



Hyperparameter

Prediction
Model
 $f(x)$

A ML algorithm (inducer)
given a data set D
and hyper parameter α
produces a prediction model $f(x)$



Training Data Set

Train model



Prediction
Model
 $f(x)$

Predict on
train data



Train Error

