

### Available Models / Parameters

```
names(getModelInfo()) # available models
modelLookUp(model = 'gbm') # parameters
```

### Cross validation

```
fitControl <- trainControl(
  method = "cv",
  number = 3)
```

### Data preparation

```
# for xgboost
train_mm <- as.data.frame(model.matrix(
  log_SalePrice ~ .-1,
  data = subsets(train, select = -c(SalePrice, Id)))
label_train <- train$log_SalePrice
```

### Parameter tuning

```
gbm.grid <- expand.grid(n.trees=c(2000, 5000),
  shrinkage = c(0.01, 0.005),
  n.minobs.innode = c(10, 50),
  interaction.depth = c(7, 10))
```

### Fit model

```
model_gbm <- train(x = train[,vars], y =
  train[, 'log_SalePrice'],
  method = 'gbm',
  trControl =
  fitControl,
  tuneGrid =
  gbm.grid)
```

### Model evaluation

```
print(model_gbm)
plot(model_gbm)
model_gbm$bestTune
model_gbm$results
varImp(object = model_gbm)
predict(model_gbm, test_data)
```

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