
H2O.ai

Case Study: Auto ML of Lending Club Dataset

```r
# Load package and connect to cluster
library(h2o)
h2o.init(max_mem_size = "6g")

# Import data and manage data types
train_path <- "https://raw.githubusercontent.com/h2oai/app-consumer-loan/master/data/loan.csv"
train <- h2o.importFile(train_path, destination_frame = "loan_train")
train["bad_loan"] = h2o.asfactor(train["bad_loan"])

# Set target and predictor variables
y <- "bad_loan"
x <- h2o.colnames(train)
x <- setdiff(x, c (y, "int_rate"))

# Use Auto ML to train models
aml <- h2o.automl(x = x, y = y, training_frame = train, max_runtime_secs = 300)
```

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```python
# Load package and connect to cluster
import h2o
h2o.init(max_mem_size = "6g")

# Import data and manage data types
train_path = "https://raw.githubusercontent.com/h2oai/app-consumer-loan/master/data/loan.csv"
train = h2o.import_file(train_path, destination_frame = "loan_train")
train["bad_loan"] = train["bad_loan"].asfactor()

# Set target and predictor variables
y = "bad_loan"
x = train.col_names
x.remove(y)
x.remove("int_rate")

# Use Auto ML to train models
from h2o.automl import H2OAutoML
aml = H2OAutoML(max_runtime_secs = 300)
aml.train(x = x, y = y, training_frame = train)
```

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