



GLME Example

scikit-learn-like interfacing

Supervised Learning:

DECISION TREES (RECURSIVE PARTITIONING)

GLM Example

scikit-learn-like interface for modeling

```
1 y = "income"
2 x = ["age", "workclass", "fnlwgt", "education", "marital-status", "occupation", "relationship",
3      "race", "sex", "capital-gain", "capital-loss", "hours-per-week", "native-country"]
```

```
1 from h2o.estimators.glm import H2OGeneralizedLinearEstimator
2 glm_0 = H2OGeneralizedLinearEstimator(family = "binomial", lambda_search = True,
3                                         nfold = 5, seed = 123)
4 glm_0.train(x = x, y = y, training_frame = census_data, model_id = "income_glm_0")
```

```
glm Model Build progress: |██████████████████████████████████████████████████████| 100%
```

```
1 from h2o.grid.grid_search import H2OGridSearch
2 glm_hyper_parameters = {"alpha": [0.5, 0.75, 1]}
3 glm_grid = H2OGridSearch(H2OGeneralizedLinearEstimator(family = "binomial", lambda_search = True,
4                                                         nfolds = 5, seed = 123),
5                           glm_hyper_parameters)
6 glm_grid.train(x = x, y = y, training_frame = census_data, grid_id = "income_glm_grid")
```

```
glm Grid Build progress: ████████████████████████████████████████████ 100%
```