
H2O.ai

XGBoost in H2O

- No algorithmic difference between H2O XGBoost and “regular” XGBoost
  - H2O just calls the regular XGBoost backend
  - H2O uses JNI to communicate to native C++ XGBoost libraries

- Two modules
  - **`h2o-ext-xgboost`**: contains actual XGBoost model and model builder code
  - **`h2o-genmodel-ext-xgboost`**: extends **`h2o-genmodel`** module and registers XGBoost-specific MOJO

Current XGBoost Support

1. XGBoost is not supported on Windows.
2. XGBoost is initialized for single-node H2O clusters; however multi-node XGBoost support is available as a Beta feature.
3. The list of supported platforms includes:

Platform	Minimal XGBoost	OMP	GPU	Compilation OS
Linux	yes	yes	yes	Ubuntu 14.04, g++ 4.7
OS X	yes	no	no	OS X 10.11
Windows	no	no	no	NA

Note: Minimal XGBoost configuration includes support for a single CPU.

4. Because we are using native XGBoost libraries that depend on OS/platform libraries, it is possible that on older operating systems, XGBoost will not be able to find all necessary binary dependencies, and will not be initialized and available.
5. XGBoost GPU libraries are compiled against CUDA 8, which is a necessary runtime requirement in order to utilize XGBoost GPU support.

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