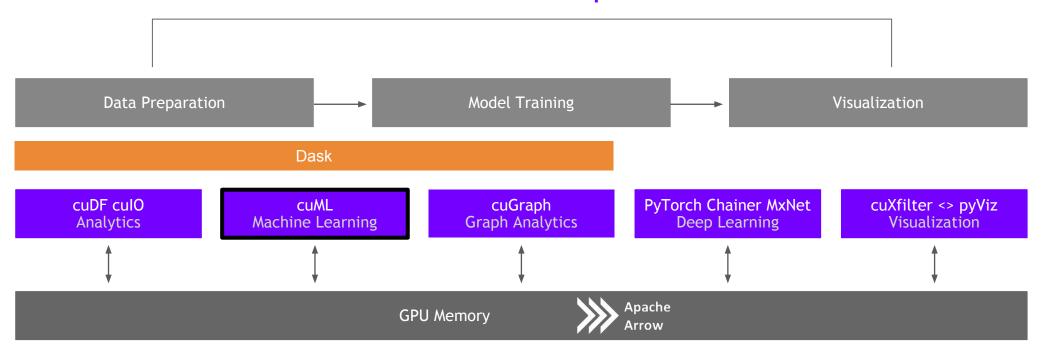
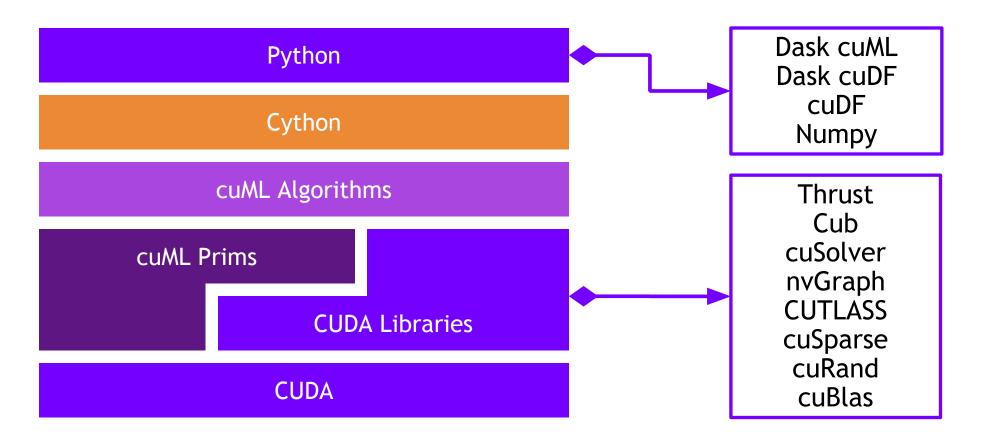
cuML

Machine Learning

More models more problems

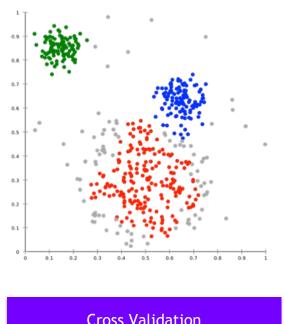


ML Technology Stack



Algorithms

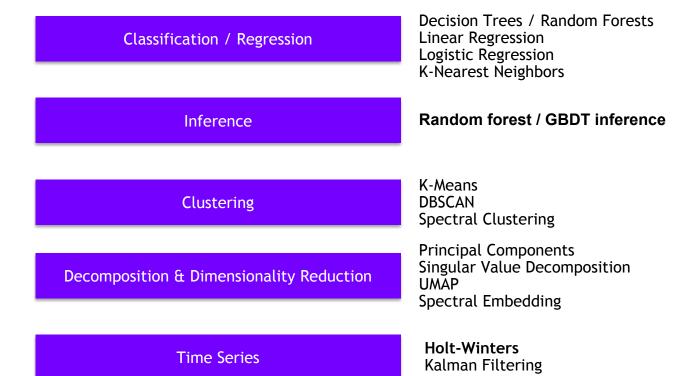
GPU-accelerated Scikit-Learn



Cross Validation

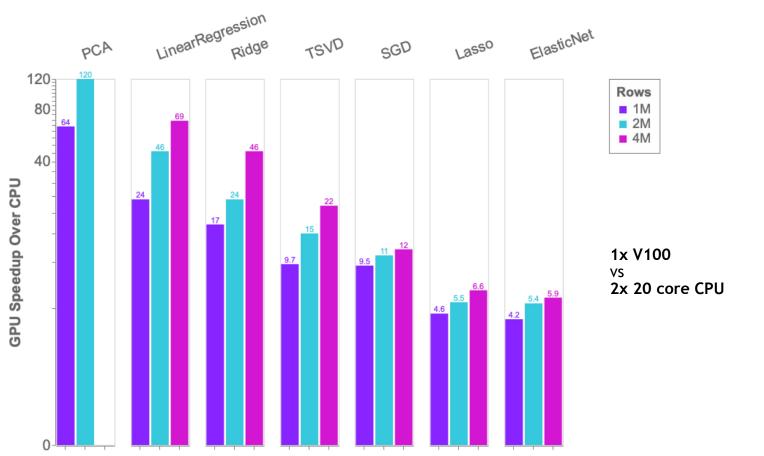
Hyper-parameter Tuning

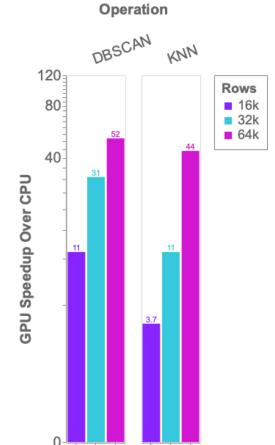
More to come!



- Preexisting
- NEW for 0.9

Benchmarks: single-GPU cuML vs scikit-learn





Road to 1.0

August 2019 - RAPIDS 0.9

cuML	Single-GPU	Multi-GPU	Multi-Node-Multi-GPU
Gradient Boosted Decision Trees (GBDT)			
GLM			
Logistic Regression			
Random Forest			
K-Means			
K-NN			
DBSCAN			
UMAP			
Holt-Winters			
Kalman Filter			
t-SNE			
Principal Components			
Singular Value Decomposition			

Road to 1.0

March 2020 - RAPIDS 0.14

cuML	Single-GPU	Multi-GPU	Multi-Node-Multi-GPU
Gradient Boosted Decision Trees (GBDT)			
GLM			
Logistic Regression			
Random Forest			
K-Means			
K-NN			
DBSCAN			
UMAP			
ARIMA & Holt-Winters			
Kalman Filter			
t-SNE			
Principal Components			
Singular Value Decomposition			