

State of the R Packages

CUDA enabled

Package	Last Update	Comment
torch	Active	
tensorflow	Active	Requires Python
MXNet	Active	Not on CRAN
<u>cuda.ml</u>	2022	Paused
rpud	2022	Not on CRAN
tfestimators	2021	Requires Python
H2O4GPU	2021	
RBERT	2020	Requires Python
RcppArrayFire	2019	
gputools	2016	Archived
rgpu	2010	Not on CRAN

State of the R Packages

Not using CUDA

Package	Last Update	Comment
DBgraph	Active	OpenMP
ssgraph	Active	OpenMP
OpenCL	2021	OpenCL
rkeops	2021	BLAS
gcbd	2016	BLAS

Reticulate

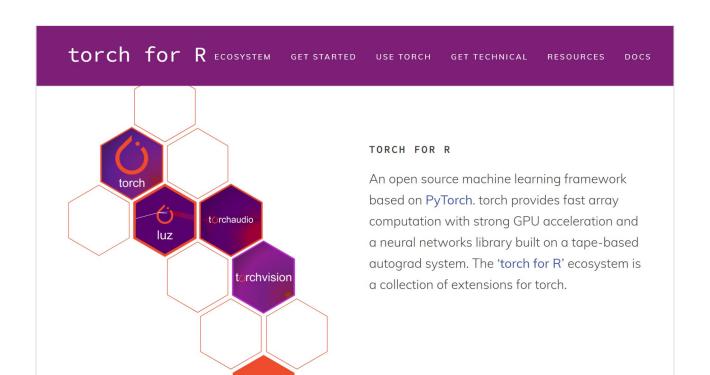
An R interface to Python

- Calling Python from R in a variety of ways including R Markdown, sourcing Python scripts, importing Python modules, and using Python interactively within an R session.
- Translation between R and Python objects (for example, between R and Pandas data frames, or between R matrices and NumPy arrays).
- Flexible binding to different versions of Python including virtual environments and Conda environments.



Torch for R

An R centric approach to deep learning



cuda.ml

An R centric interface into cuML (RAPIDS)

Category	Algorithm	
Clustering	Density-Based Spatial Clustering (DBSCAN)	
	K-Means	
	Single-Linkage Agglomerative Clustering	
Dimensionality Reduction	Principal Components Analysis (PCA)	
	Truncated Singular Value Decomposition (tSVD)	
	Uniform Manifold Approximation and Projection (UMAP)	
	Random Projection	
	t-Distributed Stochastic Neighbor Embedding (TSNE)	
Linear Models	Linear Regression (OLS)	
	Linear Regression with Lasso or Ridge Regularization	
Nonlinear Models	Random Forest (RF) Classification / Regression	
	Inference for decision tree-based (FIL)	
	K-Nearest Neighbors (KNN) Classification / Regression	
	Support Vector Machine Classifier (SVC)	
	Epsilon-Support Vector Regression (SVR)	