

Layer 1:

Single Array class in Python

Layer 2:

pybind11 of C++

Layer 3:

C++ classes

Numba models

Layer 4:

CPU functions

GPU functions

inherits from Pandas's ExtensionDtype
registered as a type in Numba
lazy versions may be wrapped as Dask

extern "C" interface

operates on CPU pointers

operates on GPU pointers
launches kernels internally

