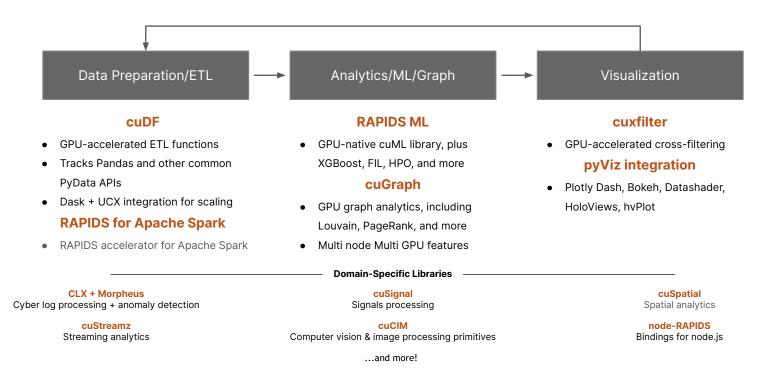
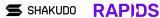
RAPIDS

The RAPIDS suite of open source software libraries gives you the freedom to execute end-to-end data science and analytics pipelines entirely on NVIDIA GPUs.

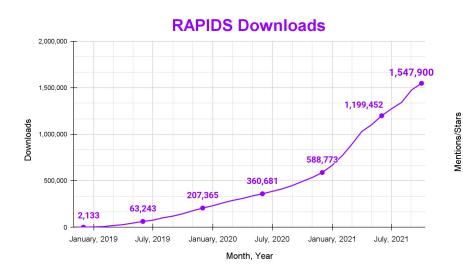
RAPIDS Product Ecosystem



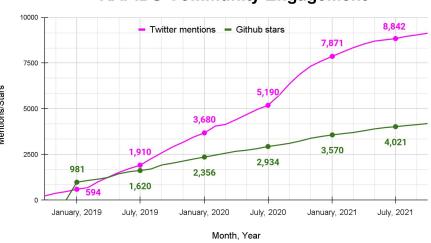


RAPIDS Growth

More than 1.5M downloads and accelerating

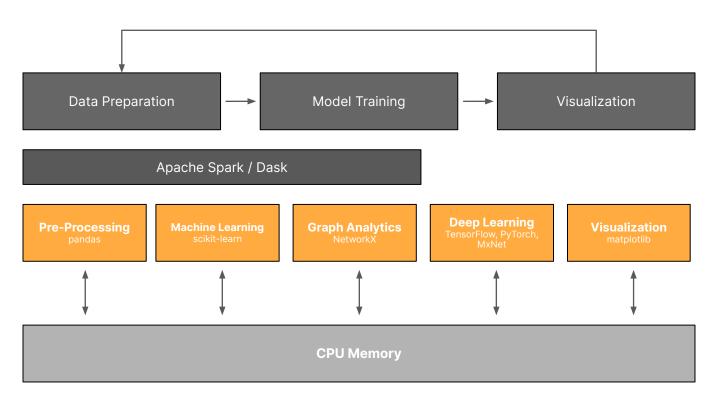


RAPIDS Community Engagement



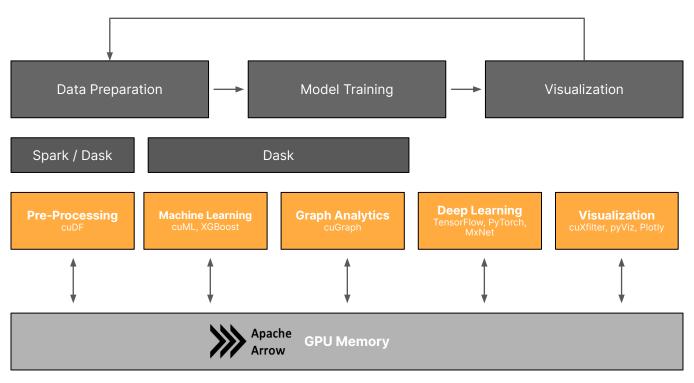
Open Source Software Has Democratized Data Science

Highly Accessible, Easy to Use Tools Abstract Complexity



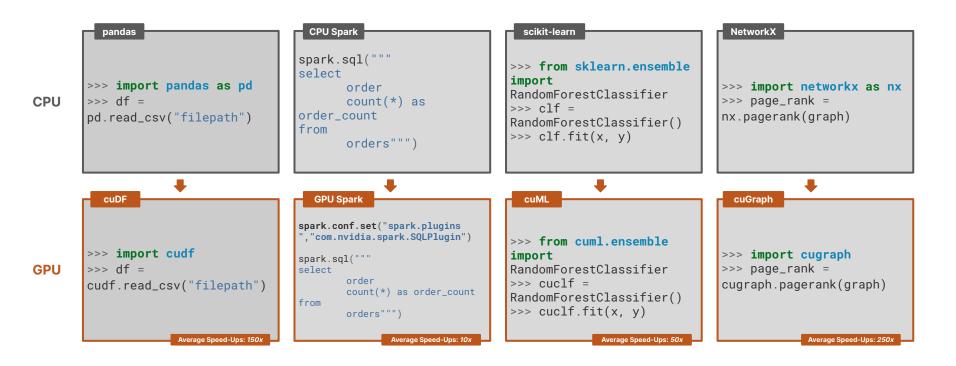
Accelerated Data Science with RAPIDS

Powering Popular Data Science Ecosystems with NVIDIA GPUs



Minor Code Changes for Major Benefits

Abstracting Accelerated Compute through Familiar Interfaces



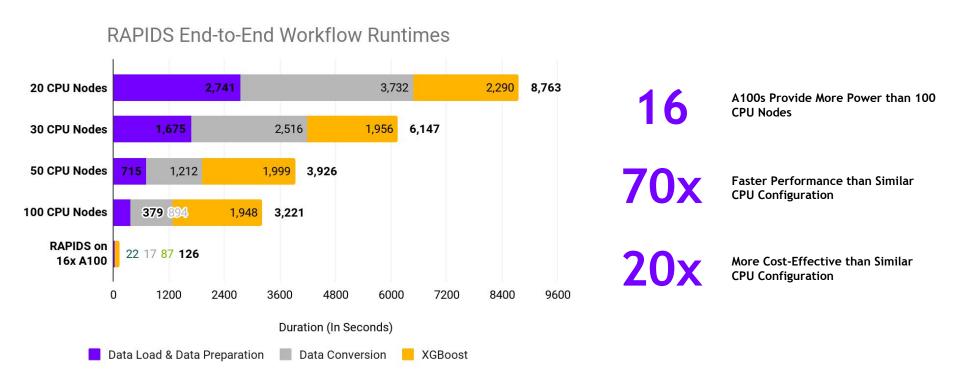
The Evolution of Data Processing

Faster Data Access, Less Data Movement

Hadoop Processing, Reading from Disk **HDFS HDFS HDFS HDFS HDFS** ML Train Query Read Write Read Write Read 25-100x Improvement CPU-Based Spark In-Memory Processing Less Code Language Flexible **HDFS** Primarily In-Memory Query ML Train Read 5-10x Improvement Traditional GPU Processing More Code Why Use GPUs Language Rigid CPU Write **HDFS** GPU GPU GPU GPUs are built for intensive parallel Substantially on GPU Query Write Read Train Read Read processing. As datasets continue to grow, data scientists are limited by the sequential nature of CPU 50-100x Improvement **RAPIDS** compute. GPUs provide the power Same Code and parallelism necessary for Language Flexible today's data science. ML Primarily on GPU Read Train

Lightning-Fast End-to-End Performance

Reducing Data Science Processes from Hours to Seconds



Demo

Using RAPIDS on Hyperplane

