Available Aurora Programming Models

- Aurora applications may use:
 - DPC++/SYCL
 - OpenMP
 - Kokkos
 - Raja
 - OpenCL
- Experimental
- HIP
- Not available on Aurora:
 - CUDA
 - OpenACC

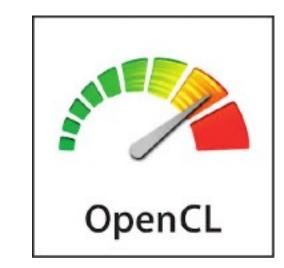










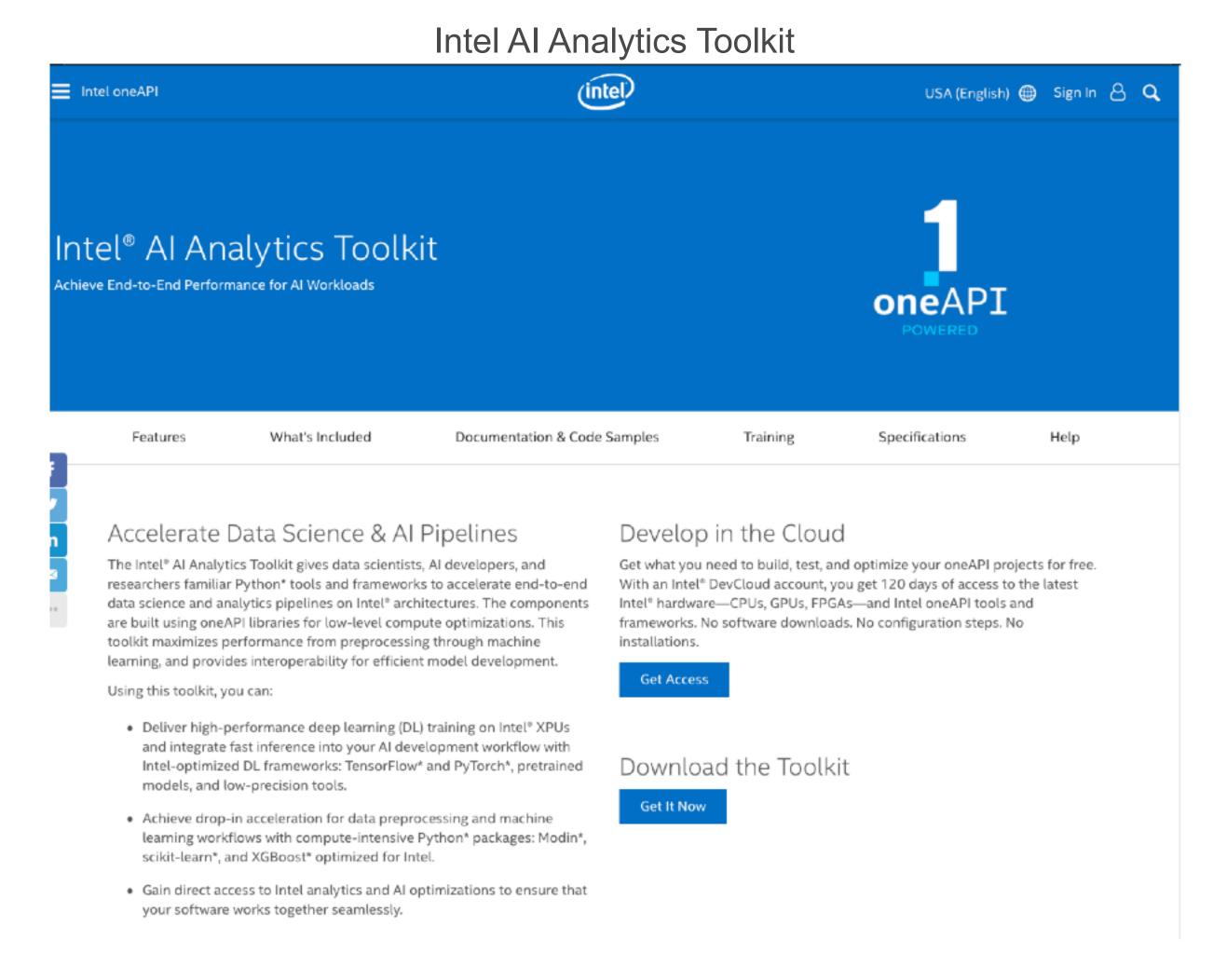




Data Science and Learning on Aurora

Aurora Will Provide for a Familiar, Productive and Performant HPC and AI Software Stack

- Python Ecosystem:
- Numba, NumPy, etc.
- ML + Deep Learning Frameworks:
 - OneDAL, scikit-learn, XGBoost, etc.
 - PyTorch, TensorFlow,
 Horovod, DDP, DeepSpeed,
 Accelerate
- Optimized + scalable communication with OneCCL
- Spark BigData Analytics
- DAOS for fast I/O + workflows
- Profiling and debugging tools



https://software.intel.com/content/www/us/en/develop/tools/oneapi/ai-analytics-toolkit.html

