

# AI: UNLEASHING THE NEXT WAVE



## Python and AI Accelerated with Intel® Solutions

**ESS offers a 2-day workshop** on Intel® AI offerings across hardware and software solutions. Explore exciting topics including Python, computer vision, Machine learning, optimized deep learning and data analytics. The workshop targets developers, data scientists, Practitioners with focused technical sessions and hands-on labs. Get deeper insight into tools, libraries, frameworks, best practices and techniques to develop, deploy your AI applications effectively and faster.

### Agenda

#### Day 1: Python Training

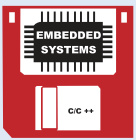
- Introduction to Python
- Intel® Distribution for Python\*(IDP)
  - Introduction
- Intel® Python- Hands-on
- Introduction to DAAL and PyDAAL
- Analytic Modeling/ Batch learning with PyDAAL
- Demo - Case study of IDP
- Introduction to MKL and MKL-DNN

#### Day 2: Intel® AI Training

- Introduction to ML
- Intel® AI Portfolio
- Speed up data analytics on Spark with Intel® DAAL
- Introduction to BigDL
- Deep learning frameworks optimized by Intel
- Intel® OpenVINO™ toolkit

**Register Now!**





## Intel® AI Portfolio

**Experiences**

**Platforms** Intel® Movidius™ Neural Compute Stick | Intel® OpenVINO™ toolkit | Movidius Fathom | intel Saffron

**Frameworks**

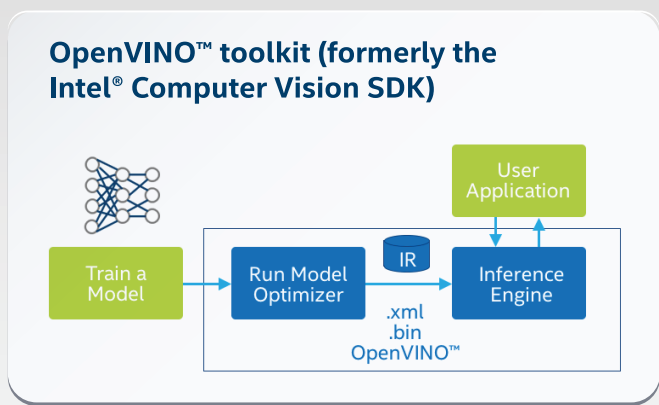
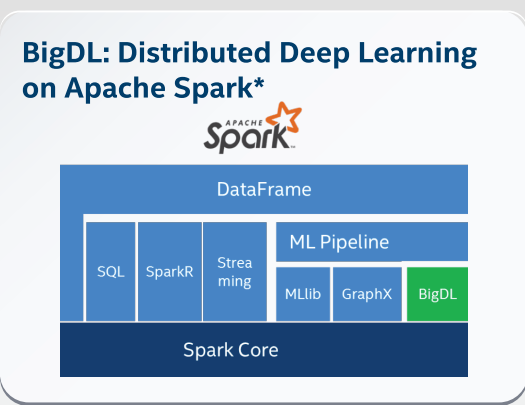
**Libraries** Intel Python Distribution | Intel® Data Analytics Acceleration Library (DAAL) | Intel® Nervana™ Graph\* | Intel® Math Kernel Library (MKL, MKL-DNN)

**Hardware**

# inside AI

\*Future

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## Boost machine learning & data analytics performance with this easy-to-use library- Intel® DAAL

**DATA SOURCES**  
Business  
Scientific  
Engineering  
Web/Social

Pre-processing	Transformation	Analysis	Modeling	Validation	Decision Making
<ul style="list-style-type: none"> <li>Decompression</li> <li>Filtering</li> <li>Normalization</li> </ul>	<ul style="list-style-type: none"> <li>Aggregation</li> <li>Dimension Reduction</li> </ul>	<ul style="list-style-type: none"> <li>Summary Statistics</li> <li>Clustering</li> </ul>	<ul style="list-style-type: none"> <li>Machine Learning</li> <li>Parameter Estimation</li> <li>Simulation</li> </ul>	<ul style="list-style-type: none"> <li>Hypothesis testing</li> <li>Model errors</li> </ul>	<ul style="list-style-type: none"> <li>Forecasting</li> <li>Decision Trees</li> <li>Etc.</li> </ul>

## Accelerated Deep learning on CPU with Intel®MKL-DNN

Improved Deep Neural Network training performance using Intel® Math Kernel Library (Intel® MKL)

