

DEEP LEARNING WORKBENCH

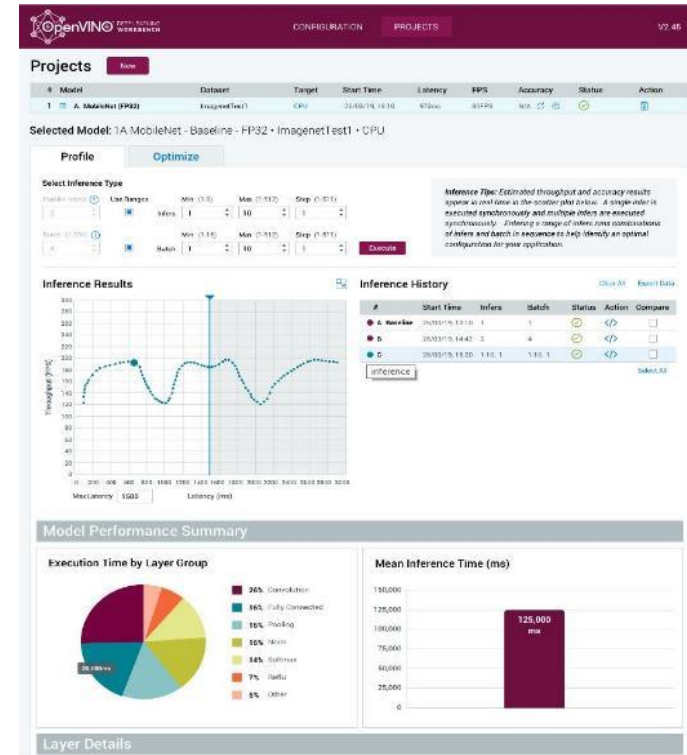
Deep Learning Workbench



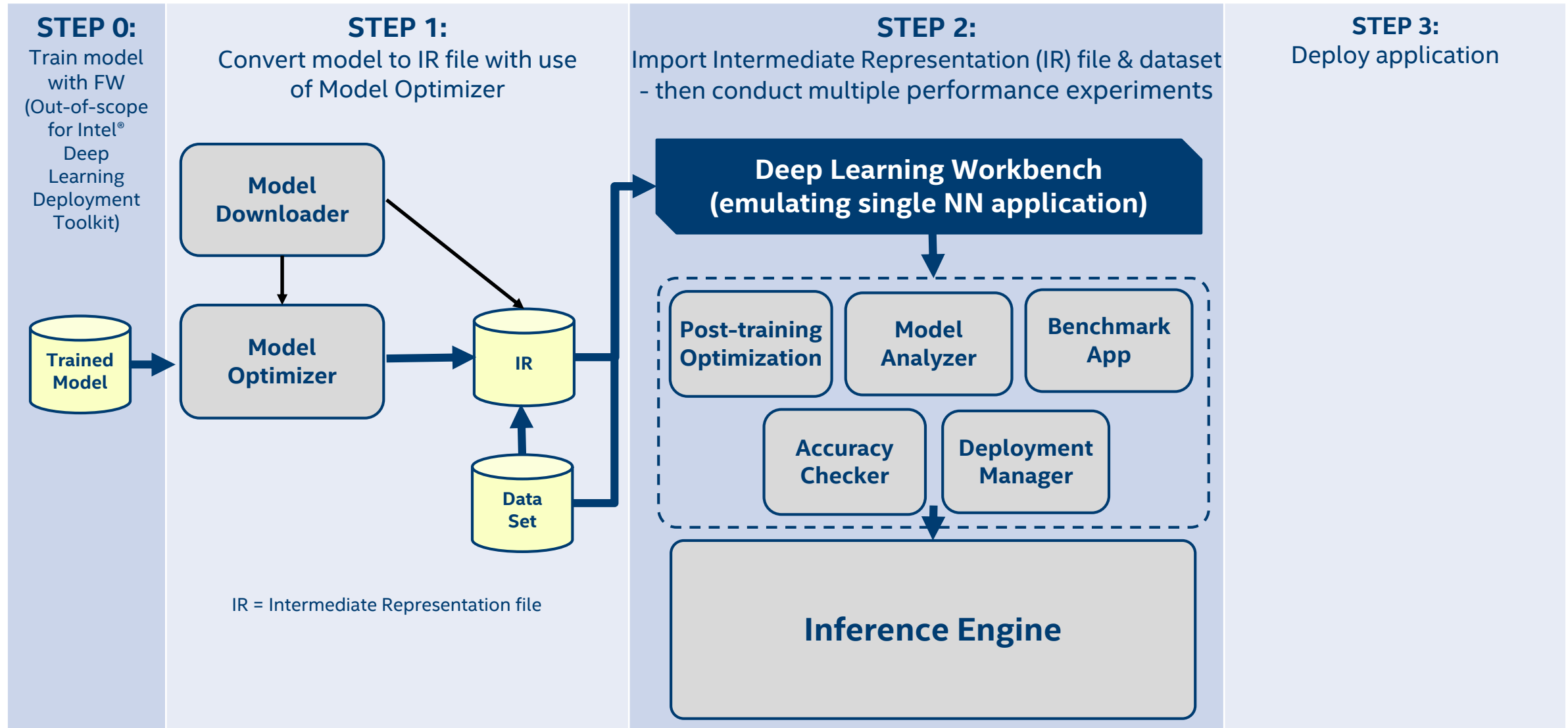
- Web-based, UI extension tool of the Intel® Distribution of OpenVINO™ toolkit
- Visualizes performance data for topologies and layers to aid in model analysis
- Automates analysis for optimal performance configuration (streams, batches, latency)
- Experiment with INT8 or Winograd calibration for optimal tuning using the Post Training Optimization Tool
- Provide accuracy information through accuracy checker
- Direct access to models from public set of Open Model Zoo
- Enables remote profiling, allowing the collection of performance data from multiple different machines without any additional set-up.

Development Guide ►

https://docs.openvino toolkit.org/latest/docs_Workbench_DG_Introduction.html




DEEP LEARNING WORKBENCH DATA FLOW



DEEP LEARNING WORKBENCH : FEATURES

CONVERT MODEL TO INT8 USING 2 NEW CALIBRATION ALGORITHMS

IMPORT DATASET IN COCO FORMAT TO USE WITH MODEL

IMPROVED PER-LAYER DATA VISUALIZATION AND COMPARISON MODE.



Select optimization method:

- ☐ Optimization method: Default
Uncontrollable minor drop of model accuracy
Significant increase of model speed
- ☒ Optimization method: AccuracyAware
Optimization method: AccuracyAware
Controllable drop of model accuracy
Increase of model speed

Max Accuracy Drop: ?

1.0

%

Import a Dataset formatted in the [ImageNet](#), [VOC](#) or [COCO](#) formats (tar.gz or .zip file).



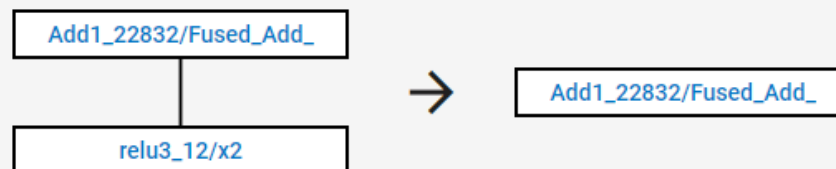
Dataset File:

Choose file

Dataset Name:

Fusing information

IR Layers [Add1_22832/Fused_Add_](#), [relu3_12/x2](#) were transformed on device to single layer [Add1_22832/Fused_Add_](#). This is called layer fusion and the diagram below demonstrates the fusion scheme and information on each layer from original IR.



DEEP LEARNING WORKBENCH : NEW FEATURES

REMOTE PROFILING SUPPORT

Add Remote Target

Hostname: ⓘ

Port: ⓘ

Target Name: ⓘ

User: ⓘ

SSH Key: ⓘ

Use Proxy: ⓘ ☐

SUPPORT FOR SEGMENTATION USE CASES

OpenVINO

[← Back to Configurations Page](#)

Configure Accuracy

instance_coco • coco200 • Local Workstation • CPU

Model Framework: OpenVINO IR

Usage: ⓘ

Default values are configured here for checking accuracy

Adapter Configuration:	Preprocessing Configuration:	Metric Configuration:	Annotation C
Input Info Layer: ⓘ <input type="text" value="image_info"/>	Resize Type: ⓘ <input type="text" value="Auto"/>	Metric: ⓘ <input type="text" value="COCO ORG SEGM ..."/>	Separate Bac
Output Layers	<input type="checkbox"/> Use Normalization	Thresholds	
Masks: ⓘ <input type="text" value="masks"/>		Start: ⓘ <input type="text" value="0.5"/>	
Detection: ⓘ <input type="text" value="reshape_do_2d"/>		Step: ⓘ <input type="text" value="0.05"/>	
		End: ⓘ <input type="text" value="0.95"/>	