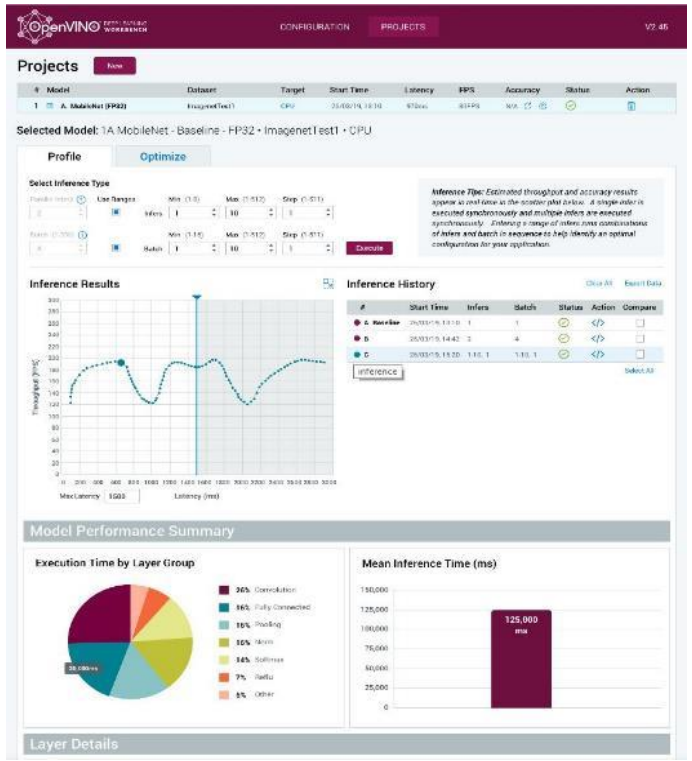
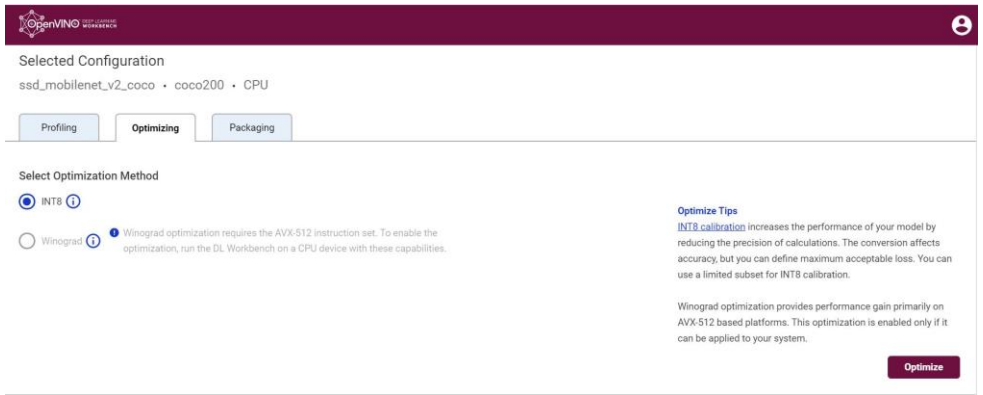
DEEP LEARNING WORKBENCH

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.openvinotoolkit.org/latest/_docs_Workbench_DG_Introduction.html

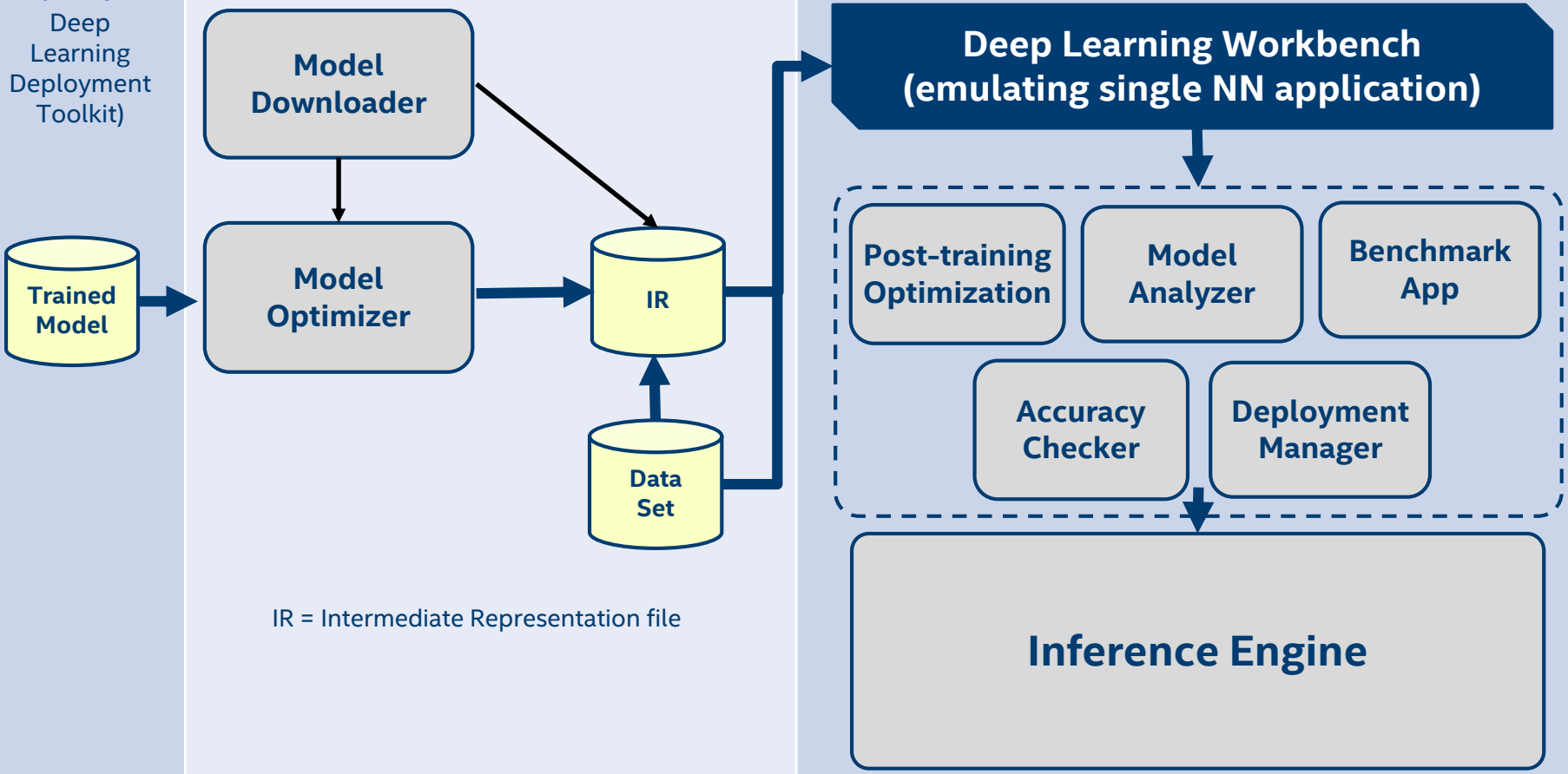
DEEP LEARNING WORKBENCH DATA FLOW

STEP 0:
Train model with FW (Out-of-scope for Intel® Deep Learning Deployment Toolkit)

STEP 1:
Convert model to IR file with use of Model Optimizer

STEP 2:
Import Intermediate Representation (IR) file & dataset - then conduct multiple performance experiments

STEP 3:
Deploy application



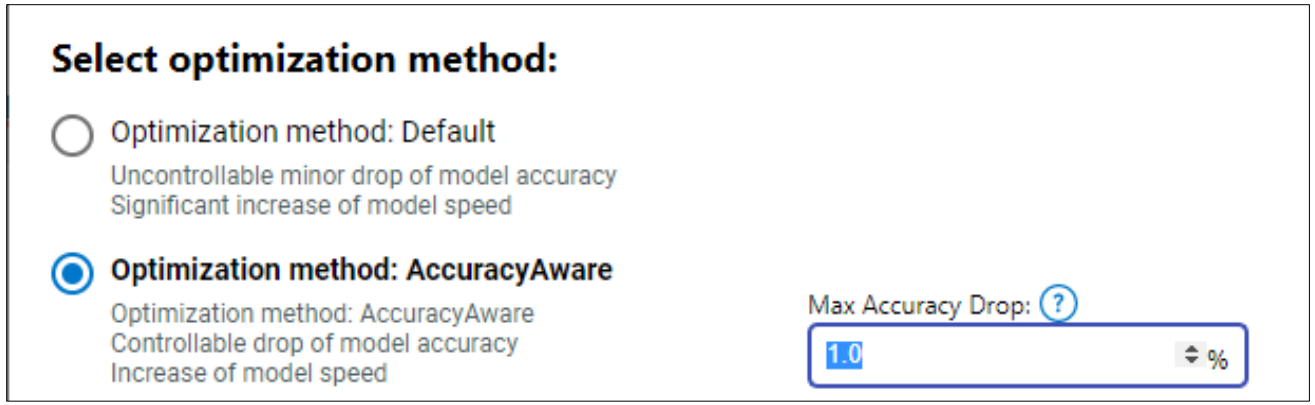
IR = Intermediate Representation file

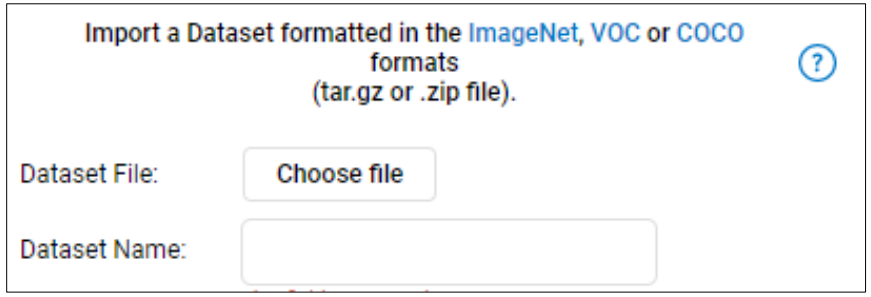
DEEP LEARNING WORKBENCH : FEATURES

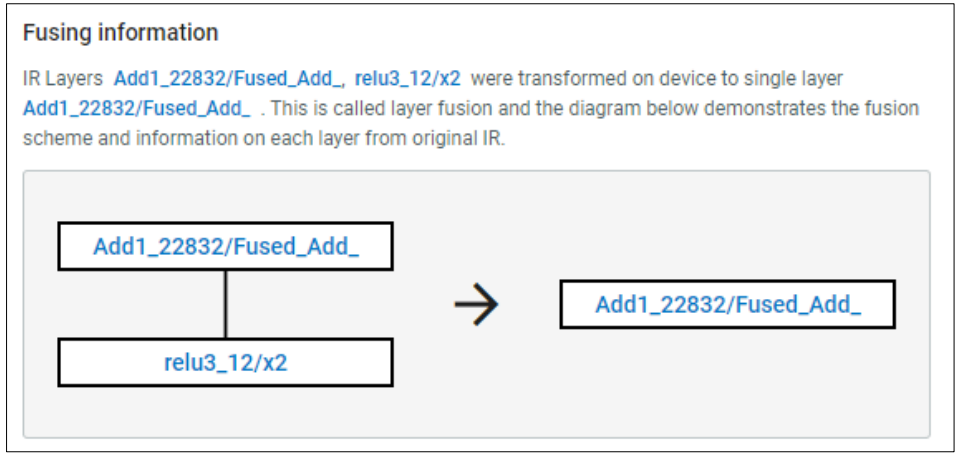
CONVERT MODEL TO INT8 USING 2 NEW CALIBRATION ALGORITHMS

IMPORT DATASET IN COCO FORMAT TO USE WITH MODEL

IMPROVED PER-LAYER DATA VISUALIZATION AND COMPARISON MODE.

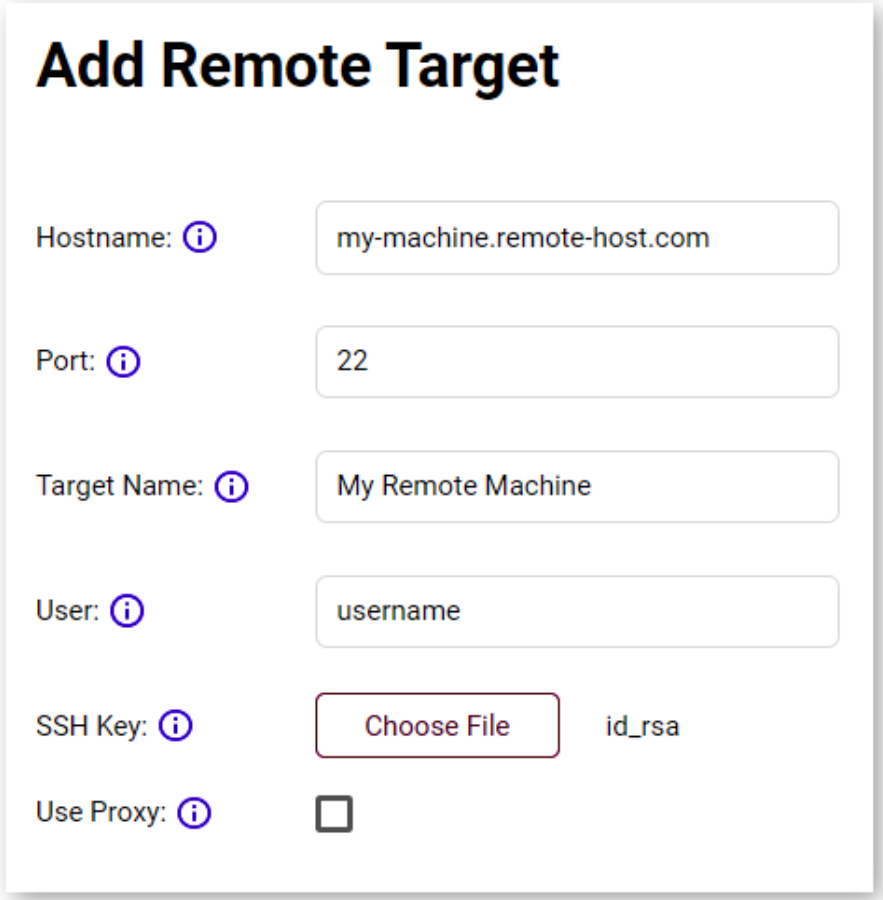






DEEP LEARNING WORKBENCH : NEW FEATURES

REMOTE PROFILING SUPPORT



SUPPORT FOR SEGMENTATION USE CASES