INTEL OPENVINO

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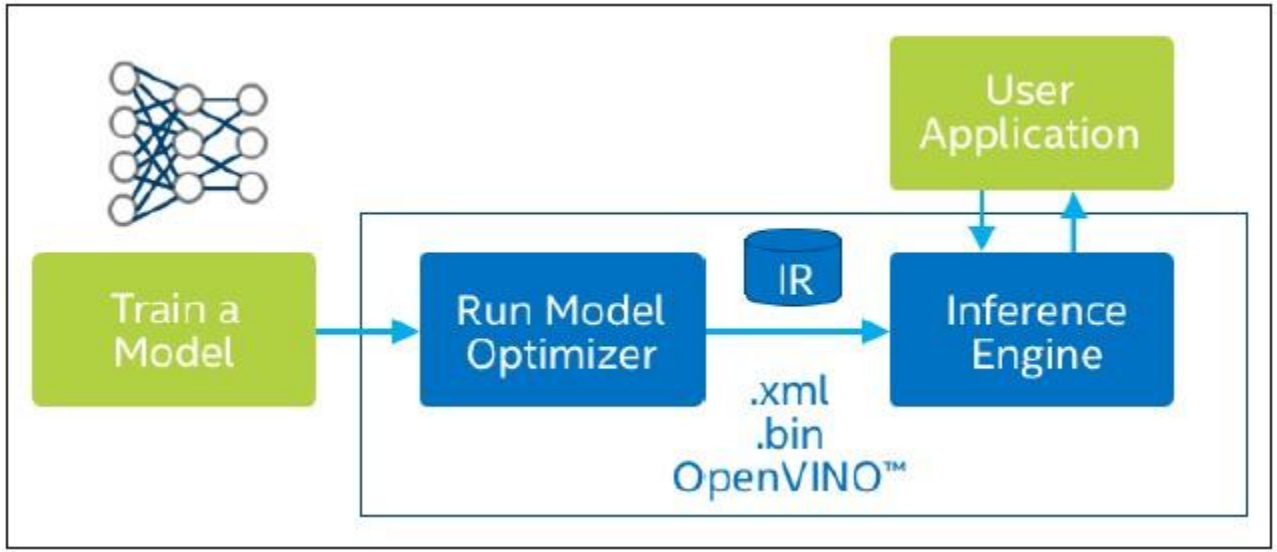
INTRODUCTION

- Toolkit for Computer vision applications involving CNNs.
- Supports already trained models for many public CNN architectures eg: ResNet, GoogleNet etc.
- Support for heterogeneous execution across CPU, GPU, FPGA etc.

INTEL OPENVINO DEPLOYMENT ARCHITECTURE



What is the novelty, special selling point of this work?

➢ Helps import trained models easily to be deployed on FPGAs.

How does this work connect to the rest of the field with regard to the aspects mentioned in general background?

- ➢ OPENVINO supports importing models from different frameworks like Tensorflow, Caffe etc.
- ➢ Well suited for computer vision applications based on pipelined parallelism.

Which of these aspects could we like to use, reproduce or exceed in our work?

- ➢ The inference engine of OPENVINO provides C++ libraries for deploying models for FPGAs with minimal coding effort.