# ONNX Model Zoo Distributed Training

**Presenter(s): Rodolfo Esteves, Rajeev Nalawadi**
**Intel Corporation**

# Model Zoo Training samples

With inclusion of ONNX operators for training

- ONNX Model zoo should cover few model samples in zoo for training scenarios
- Target at least 1 model to begin. Could be any category Vision, NLP etc..
  - Preferably Transformer/NLP training sample as first priority
  - Request is to cover a model in each category (3 model samples would provide enough starting momentum to showcase similarities/differences)
- ONNX will be able to show distributed training infrastructure by leveraging (Horovod, Deepspeed/ZERO, …) across clusters and the industry SOTA techniques of data/model/pipeline parallelisms (as applicable)
- Quantization aware training (QAT) can be better demonstrated with ONNX model samples (with original model converted from other FW's in FP32 and then quantization flows applied using ONNX)
  - Original FP32 model facilitates model accuracy comparison
- Mixed precisions usage for training the ONNX models can also be highlighted in future

Thank You !!