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TensorFlow (simply referred as TensorFlow for rest of the paper) and Message Passing Interface (MPI) [10, 11]. 2.1 TensorFlow Google's TensorFlow, released in November 2015, is a platform for building and developing models in machine learning, particularly neural networks. It is capable of han- arXiv:1603.02339v2 [cs.DC] 18 Aug 2017

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Deep Learning (DL) algorithms have become the de facto choice for data analysis. Several DL implementations - primarily limited to a single compute node - such as Caffe, TensorFlow, Theano and Torch have become readily available. Distributed DL implementations capable of execution on large scale systems are becoming important to address the computational needs of large data produced by ...

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