

Supplemental Explanation

Supplemental Explanation 1 BERT Bidirectional Encoder Representations from Transformers

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BERT is a pre-trained model. As shown in Fig. 1, finely tuning the BERT model that has been trained with large amounts of general-purpose data in advance improved its recognition accuracy, so that it may be used for a target field with small amounts of data.

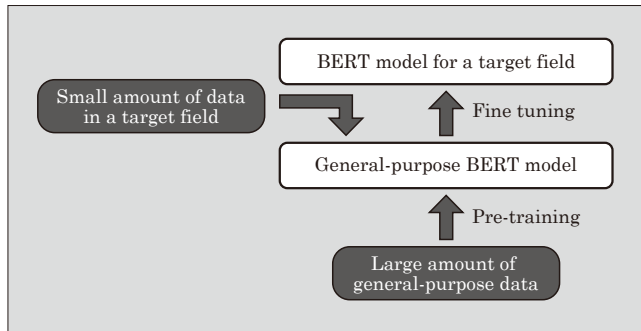


Fig.1 Fine tuning of BERT model

Supplemental Explanation 2 Semi-supervised learning

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“Semi-supervised learning” is a method that combines “supervised learning,” in which learning is performed with training data (labels), with “unsupervised learning,” in which learning is performed without training data (labels). In general, semi-supervised learning is recognized to be more accurate than regular supervised learning, even when only small amounts of training data is available.

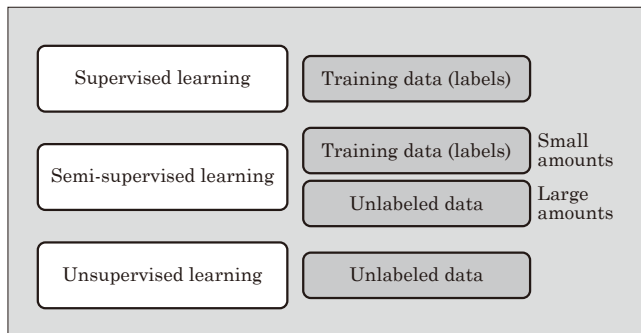


Fig.2 Semi-supervised learning





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