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AN OVERVIEW OF DEEP LEARNING

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ABSTRACT

Deep learning technologies has been a significant study area in the field of machine learning with the advent of big data, and it has been extensively used in image processing, natural language processing, voice recognition, and online advertising, among other applications. This paper covers various aspects of deep learning techniques, such as common deep learning models and optimization methods, commonly used open source frameworks, existing problems, and future research directions. To begin, we'll go through some of the applications of deep learning; Second, we go through several popular deep learning models and optimization techniques. Finally, we go through several popular deep learning frameworks and platforms. Finally, we emphasize deep learning's future development by introducing the most recent deep learning acceleration technology.

KEYWORDS: *Deep Learning ,Data Corporation, Image Processing , Natural Language Processing Recognition Of Speech*

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