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Medical image analysis is the science of analysing or solving medical problems using different image analysis techniques for a active and e cient extraction of information. It has emerged as one of the top research area in the eld of engineering and medicine. Recent years have witnessed rapid use of machine learning algorithms in medical image analysis. ese machine learning techniques are used to extract compact information for improved performance of medical image analysis system, when compared to the traditional methods that use extraction of handcra ed features. Deep learning is a breakthrough in machine learning techniques that has overwhelmed the eld of pattern recognition and computer vision research by providing state-of-the-art results. Deep learning provides di erent machine learning algorithms that model high level data abstractions and do not rely on handcra ed features. Recently, deep learning methods utilizing deep convolutional neural networks have been applied to medical image analysis providing promising results. e application area covers the whole spectrum of medical image analysis including detection, segmentation, classi cation, and computer aided diagnosis. A brief introduction to the application of deep learning algorithms in medical image retrieval, segmentation, and detection will be presented.

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