

Machine Learning Procedures and Its Assistance In Health Care: A Study

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ABSTRACT

Around the world due to active habits and the surrounding milieus each and every person face countless health issues in their life time span. Some issue falls human life in chronic situation if symptoms are not forecasted at the beginning phase. However, with progression of medical research and the integrated aid of various machine learning based tools the experts of medical field have much updated info in contrast of past time to cure life of patients, but each time it's hard for medical experts to correctly recognize issues on time. Lot of printed efforts denoted that the procedures based on machine learning practices can play a serious part for estimating of various health issues on time. This paper properly deliberates assistance and the challenges of handy machine learning schemes to aid naïve researchers to gain an appropriate understanding about the applications of machine learning in health care sector and to draw the research scope for future investigation.

Keywords: Machine Learning, Prediction, Decision Tree, Naïve Bayes, Artificial Intelligence

1. INTRODUCTION

Recently, Innumerable strategic tools and the techniques of machine learning are being integrated under various working fields, especially in health care unit. Typically, the scheme of machine learning is a branch of AI that robotically train model from past experiences or can say practice efficiently extracts knowledge from an accessibility of enormous data with low-slung computation cost. In recent pandemic scenario the research community of medical field regularly utilize machine learning practices into novel ways to enhance the quality of an accessible medical decision support system and to aid medical expert for making quick and effective decisions to increase people survival rate by correctly envisaging the disease symptoms at early stage [1]. Inside an industry of healthcare, the machine learning is a swiftly rising trend. The practices of machine learning categories under following terms, signified through figure 1

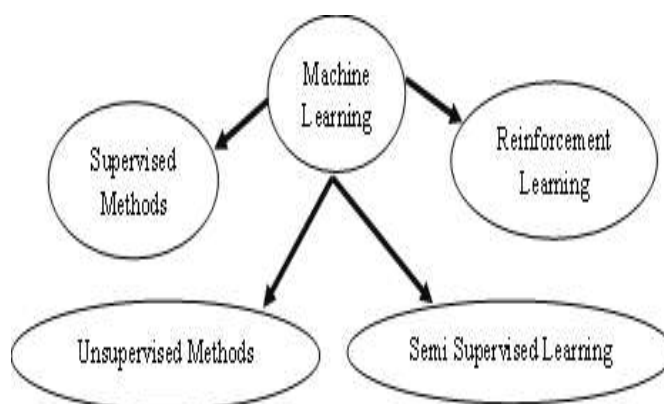


Fig. 1. Cataloguing the Methods of Machine Learning

Above figure (Figure 1) signifies the broad categorization of machine learning practice. Generally, the Supervised learning scheme utilize a bench of data to train build model and after such training process the designed approach made an endeavor to determine unseen instances [2]. The process observes training data and constructs an indirect job, called classifier if the yield is discrete or regression job if yield is continuous [3].