**INDIVIDUAL PAPER REVIEW**

**Title :** Empirical Study on Applications of Data Mining Techniques in Healthcare

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1. **What is the main problem discussed in this paper?**

The healthcare environment is generally perceived as being ‘information rich’ yet ‘knowledge poor’. There is a wealth of data available within the healthcare systems. However, there is a lack of effective analysis tools to discover hidden relationships and trends in data.

1. **What is the main related studies that worked on this problem?**

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1. **What are the dataset(s) used in this study?**

The dataset used in this study is created by George John and appears on the UCL ML Data Repository at http//kddics.uci.edu. It contains 8 continuous attributes and 768 instance and two classes (one decision attribute) that determine either a person is or not having diabetes mellitus [26] . These attributes can filter out into Table 7 which is illustrated below. The Excerpt of Patient data with the results of Physical, Chemical and Laboratory examination is shown in Table 5. Final attributes and their values are presented in Table 7. Out of nine condition attributes, six attributes describe the result of physical examination, rest of the attributes of Chemical examinations. There are nine condition attributes in the laboratory examination report and one decision attribute i.e. micro-albuminuria [24].

1. **What are the approach/model proposed in the paper?**

The approach used in this paper is an approach of classification to reduce risk factor.

1. **How the authors evaluated the performance of the methods used in this paper?**

The author evaluated the performance of the methods is Given patient records with corresponding diagnosis, data mining methods are able to diagnose new cases. For instance, in the domain of early diagnosis of diabetic nephropathy disease, the patient record of laboratory examination comprises of condition attribute (including decision attributes).

1. **Reflection: What have I learnt?**

Data mining techniques can be so helpful in healthcare the potential use of classification based data mining techniques such as Rule based, decision tree and Artificial Neural Network to massive volume of healthcare data give a positive results and it can be supportive.