



Supervised Learning Methods for Predicting Diabetes: A Systematic Review of the Literature

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Abstract –Artificial intelligence (AI) and its benefits in the field of medicine have generated a great revolution. For this reason, we want to identify the supervised learning methods (a sub-area of artificial intelligence) and the factors used for the prediction of diabetes that have been more significant in terms of technique (of which highlight decision tree and its derivatives) and results. For the identification of these methods, a systematic review of the literature was carried out. Machine learning methods were extracted from all the articles found to consider them as antecedents. There are several supervised learning methods that can predict diabetes in which some are hybrids and others pure, one better than others depending on the case study. Finally, after a review of the selected articles, the pre-processing stage in the development of these models is highlighted to achieve a higher precision score.

Keywords – Artificial Intelligence, Supervised Learning, Diabetes Prediction.