



ISBN: 978-981-16-8763-1

Cognitive Informatics and Soft Computing pp 783–790

Machine Learning Application in Primitive Diabetes Prediction—A Case of Ensemble Learning

[Narayan Patra](#), [Jitendra Pramanik](#), [Abhaya Kumar Samal](#) & [Subhendu Kumar Pani](#)

Conference paper | [First Online: 31 May 2022](#)

67 Accesses

Part of the [Lecture Notes in Networks and Systems](#) book series (LNNS, volume 375)

Abstract

The presence of high level of sugar molecules in blood for a long period of time gives rise to chronic illness which is termed as diabetes. It severely affects the functioning of other organs in the body. A precise early predicting system can be very helpful in reducing the risk and severity associated with diabetes with significant influence on having a healthy lifestyle. This paper presents an introductory application of ensemble learning for an early diabetes prediction which employs AdaBoost algorithm with Support Vector Classifier (SVC) and Decision tree (DT)