

# Diabetes Prediction using Machine Learning Algorithm

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**Abstract:** *Diabetes is caused when the sugar level increases or the solution which control sugar level i.e. insulin level go down. also it can be caused due to weight gain(i.e. excessive weight) it is long lasting health condition which effect the patient body turn the food to energy/fat .it affect all age people from child to adult everyone and the starting stage symptoms are very negligeous. Later on it may show the symptoms like headache, vision problem and many more and when due to diabetes there is increase in glucose level it affect work of red blood cells (RBC) and also the power of white blood cell is get lower which can make it happens for other disease also diabetes not get to be transmitted from one suffers to another (i.e. non-communication) ,and covid session is going on it more likely get serious for diabetic patient there are many two types of methods for treating diabetes allopathic and medical tasks. We aim to make an affective way for predict diabetes earlier.*

**Keywords:** machine learning, prediction, support vector machine, random forest, KNN

## REFERENCES

- [1]. "Diabetes prediction using machine learning", Bhavya Sanjay Hc<sup>2</sup>, Suraj SK<sup>2</sup>, Savant Aakash Shivshankar Rao<sup>4</sup>, Sanjay M<sup>5</sup>,IJARCCE-2020
- [2]. Aishwarya muJumdai, Dr – Vaidehi v<sup>b</sup>, "Diabetes prediction using machine learning algorithms", on procedia computer science 165(2019) 292-299. (IJARCCE).
- [3]. Sivaranjani S, Ananya S, Aaravinth J, Karthika K, "Diabetes prediction using machine learning algorithms with feature selection and diamensionality reduction",IEEE Access.
- [4]. Anjali c and Veena Vijayan v, Prediction and Diagnosis Diabetes Mellitus, " A machine learning Approach", 2015 IEEE Recent Advantages in intelligent computational system (RAICS)|10-12 December 2015|Trivandrum.
- [5]. Priyanka Sonar and Prof. K Jayamalini prediction several algorithm "Diabetes prediction using Different Machine Learning Approaches", IEEE – 2019
- [6]. MD KAMRUL Hasan, MD ASHRAFUL Alam .Dola Das,Eklas Hossain ,MAHMUDUL Hasan, "Diabetes Prediction Using Ensembling of Different Machine Learning Classifier" IEEE Access – 2020/DOI 10119