

Diabetes Prediction System Using Gaussian Algorithm

Sarvesh Wadekar¹, Nihar Yelve², Kuldip Yadav³, Prof. Urjashree Patil⁴

UG Students, Department of Computer Engineering^{1,2,3}

Professor, Department of Computer Engineering⁴

Shivajirao S. Jondhale College of Engineering, Dombivli, Thane, Maharashtra, India

Abstract: Diabetes is among critical diseases and lots of people are suffering from this disease. Age, obesity, lack of exercise, hereditary diabetes, living style, bad diet, high blood pressure, etc. can cause Diabetes. To deal with this problem we have created a system which can predict Diabetes at early stages. We have made it in the form of a mobile app so everyone can use anywhere with just a touch on their mobile. The system is capable of predicting Diabetes by using users data such as age, BMI, insulin, blood pressure, glucose, pregnancy and with the help of our trained model which is using Gaussian algorithm we are predicting if the user has Diabetes or not with high accuracy. This system helps people to save their money and time from the tests that they have to undergo.

Keywords: Gaussian NB, Diabetes Prediction, App, Machine Learning

REFERENCES

- [1]. Jingyu Xue , Research on Diabetes Prediction Method Based on Machine Learning. To cite this article: 2020 *J. Phys.: Conf. Ser.* **1684** 012062
- [2]. Mitushi Soni , Dr. Sunita Varma ,Diabetes Prediction using Machine Learning Techniques Dept of Computer Science and Engineering , International Journal of Engineering Research & Technology (IJERT) ,Vol. 9 Issue 09, September-2020 ,ISSN: 2278-0181 ,IJERTV9IS090496
- [3]. S. R. Priyanka Shetty , Sujata Joshi , A Tool for Diabetes Prediction and Monitoring Using Data Mining Technique ,I.J. Information Technology and Computer Science, 2016, 11, 26-32
- [4]. Huaping Zhou, Raushan Myrzashova* and Rui Zheng Zhou Diabetes prediction model based on an enhanced deep neural network, EURASIP Journal on Wireless Communications and Networking, (2020) 2020:148
- [5]. N. Sneha and Tarun Gangil ,Analysis of diabetes mellitus for early prediction using optimal features selection, <https://doi.org/10.1186/s40537-019-0175-6>, Sneha and Gangil *J Big Data* (2019) 6:13
- [6]. Dost Muhammad Khan¹, Nawaz Mohamudally², “An Integration of K-means and Decision Tree (ID3) towards a more Efficient Data Mining Algorithm ”, Journal Of Computing, Volume 3, Issue 12, December 2011.
- [7]. K. Rajesh and V. Sangeetha, “Application of Data Mining Methods and Techniques for Diabetes Diagnosis”, International Journal of Engineering and Innovative Technology (IJEIT) Volume 2, Issue 3, September 2012.
- [8]. Humar Kahramanli and Novruz Allahverdi, “Design of a Hybrid System for the Diabetes and Heart Disease”, Expert Systems with Applications: An International Journal, Volume 35 Issue 1-2, July, 2000.