**EARLY PREDICTION OF DIABETES**

**ABSTRACT**

Nowadays, diabetes has become a common disease to the mankind from young to the old persons. According to International Diabetes Federation 382 million people are living with diabetes across the whole world. By 2035, this will be doubled as 592 million. Various traditional methods, based on physical and chemical tests, are available for diagnosing diabetes. However, early prediction of diabetes is quite challenging task for medical practitioners due to complex interdependence on various factors as diabetes affects human organs such as kidney, eye, heart, nerves, foot etc.Data science methods have the potential to benefit other scientific fields by shedding new light on common questions. One such task is to help make predictions on medical data. Machine learning is an emerging scientific field in data science dealing with the ways in which machines learn from experience.The aim of this project is to develop a system which can perform early prediction of diabetes for a patient with a higher accuracy using Logistic Regression Algorithm. It also suggests a diet to an individual based on the results.

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