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**DIABETIC MELLITUS PREDICTION WITH VITAL SIGNS**

**ABSTRACT:** Diabetes mellitus is a chronic condition that effects millions of people worldwide and is characterized by elevated blood sugar levels. Early detection and management of diabetes can help prevent the development of serious complications. The normal process of identifying people with diabetes requires more time and money. This application is to predict the likelihood of a person developing diabetes mellitus based on various vital signs. The application will use logistic regression to analyse this data and generate a prediction, which can be used by healthcare providers to take proactive measures to prevent or manage diabetes by taking proactive measures. With the increasing prevalence of diabetes, this application could play a crucial role in reducing the impact of this condition on individuals.

**KEYWORDS:** Logistic Regression, Machine Learning, Diabetes Mellitus Prediction