

Using KNN and Naive Bayes machine learning models to predict diabetes

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Abstract: In the current context, the development of methods for predicting diabetes is increasingly valued due to its significant impact on public health. This study focuses on researching and applying two machine learning models, K-Nearest Neighbors (KNN) and Naive Bayes, to improve accuracy in predicting diabetes from biological features. Accordingly, the objective of this study is to provide an effective solution to support public healthcare. The research methodology includes analyzing experimental data, implementing, and comparing the performance of the two selected models. The expected results of this study not only contribute to the development of machine learning technology in the medical field but also help raise awareness of the importance of disease prediction through machine learning methods.

Keywords: machine learning model, KNN, Naive Bayes, diabetes, prediction