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| **Title:** |
| **EXPLORATION TO THE MACHINE LEARNING TECHNIQUES FOR**  **DIABETES IDENTIFICATION** |
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| **Abstract:** (Your abstract must use **Normal style** and must fit in this box. Your abstract should be no longer than 300 words. You can include, figures, tables, charts and references if required) |
| Diabetes mellitus, known as diabetes, is a gathering of metabolic issue and has influenced a huge number of people. Diabetes is considered as one of the deadliest and incessant ailments which cause an expansion in glucose. Numerous complexities happen if diabetes stays untreated and unidentified. But the ascent in machine learning approaches illuminates this basic problem. Therefore three machine learning grouping calculations to be specific KNN (K Nearest Neighbor), SVM (Support vector Machine) and CNN ( Convolutional Neural Network) are utilized in this analysis to identify diabetes. The thought process of this examination is to plan a model which can anticipate of diabetes in patients with greatest precision. Investigations are performed on Pima Indians Diabetes Database (PIDD). The exhibitions of all the three calculations are assessed on different estimates like Precision, Accuracy. Results acquired show KNN (K Nearest Neighbor), beats with the most noteworthy exactness of 76.30% similarly other algorithms. First collect the Diabetes datasets from the PIDD (Pima Indians Diabetes Database). The initial step is preprocessing to recognize the blunder and disappointment in datasets and Modify it. Here we utilized PCA (Principle Component Analysis) Algorithm to address the datasets. The second step is order to locate the proficient calculation in KNN (K Nearest Neighbor), SVM (Support vector Machine), CNN(Convolutional Neural Network).The last advance is prediction of diabetes demonstrates that the individual have diabetes or not. |