**Abstract :-**

**Introduction:-**

Nowadays, people face various diseases due to the environmental condition and their living habits and because of this disease prediction at an earlier stage has become very important. But the accurate prediction based on symptoms becomes too difficult for doctors. The correct prediction of disease is the most challenging task. To overcome this problem data mining plays a vital role in predicting diseases. Every year medical science provides a large amount of data increasing exponentially. The development and exploitation of several prominent Data mining techniques in numerous real-world application areas (e.g. Industry, Healthcare, and Bioscience) has led to the utilization of such techniques in machine learning environments, to extract useful pieces of information of the specified data in healthcare communities, biomedical fields, etc. The accurate analysis of medical database benefits in early disease prediction, patient care, and community services. The techniques of machine learning have been successfully employed in assorted applications including Disease prediction. With the help of disease data, data mining finds hidden pattern information in the huge amount of medical data. in this project, we proposed general disease prediction based on the symptoms of the patient. For the disease prediction, we use Logistic Regression, Support Vector Machine (Linear Classifier), Support Vector Machine (RBF Classifier), Naive Bayes, Decision Tree, Random Forest, K-Nearest Neighbour (KNN) prediction of disease. In this general disease prediction the living habits of a person and check-up information consider for the accurate prediction, the person fills in the check-up details over a user-friendly web interface which processes the details over various machine learning algorithms as mentioned above and then shows the result and also the accuracy for all the algorithms used for processing. Anyone who wants to check for breast cancer, diabetes, heart disease, kidney disease, lung cancer can easily know it just by filling in the details.

**Methodologies used:-**

* Machine learning
* Django

**Conclusion:-**

The project aims to immensely help to solve health-related issues by assisting physicians to predict and diagnose diseases at an early stage. This project presents a survey of various models based on such algorithms and techniques and analyze their performance. Models based on supervised learning algorithms such as Support Vector Machines (SVM), K-Nearest Neighbour (KNN), NaïveBayes, Decision Trees (DT), Random Forest (RF) and logistic regression are used here.

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