

Research Trends in Education and Teaching Strategies



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Prediction Model for Students' Performance Using Code-Free Recent Technology

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Abstract:

In this digital era, the technological augmentation results in the innovation of various new applications and systems. One of the booming technology is Machine Learning, which reduces the human tasks and increases the innovations. The algorithms with extensive coding produces the effective outcome. The same degree of successful models can also be created without coding, in turn. This is substantiated through this paper by the creation of machine learning model to predict the performance of students'. The simple and elegant method is provided by the user-friendly interface of the prediction laboratory, one of the platforms to construct machine learning models in Microsoft Excel. The non-code method of prototyping is also effective at giving the accuracy of prediction.

Keywords: Machine Learning, Prediction Laboratory, accuracy, non-code method, user- friendly.

Introduction:

Artificial intelligence (AI) in the form of machine learning (ML) enables computer programs to predict outcomes more accurately without having been expressly programmed to do so. There are numerous efficient varieties of machine learning algorithms. Each algorithm have its own functionality. They are broadly classified as Supervised Learning, Unsupervised Learning and Reinforcement Learning. Some of the algorithms are Linear Regression Algorithm, Logistic Regression Algorithm, Decision Tree, SVM, Naïve Bayes, KNN, K-Means Clustering, Random ForestApriori, etc.

KNN Algorithm:

The K-Nearest Neighbours algorithm, also referred to as KNN or K-NN, is a non-parametric, supervised learning classifier that relies on closeness to make classifications or forecasts about the grouping of a single data point. Although the K-NN algorithm is most frequently used for problem solving in classification, it can also be used for regression. It is also known as a lazy learner algorithm because it stores the training dataset rather than learning from it instantly. Instead, it uses the dataset to perform an action when classifying data. The KNN algorithm simply stores the dataset during the training phase, and when it receives new data, it categorizes it into a category that is very similar to the new data.

The algorithm comprises the following steps:

Step-1: Select the number K of the neighbours

Step-2: Calculate the Euclidean distance of K number of neighbours

Step-3: Take the K nearest neighbours as per the calculated Euclidean distance.

Step-4: Among these k neighbours, count the number of the data points in each category.

Step-5: Assign the new data points to that category for which the number of the neighbour is maximum.

Step-6: Model is ready.

Prediction Laboratory-MS Excel:

Prediction Laboratory is one of the Add-Ins in MS Excel. It is used to execute the machine learning algorithms. Without writing a code, the processes for the implementation of algorithms takes place. In the proposed work, the KNN algorithm is used for model creation and the implementation steps of KNN

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