**SYSTEM ANALYSIS**

**EXISTING SYSTEM:**

In The Existing system We study the graduate admission process in American universities from students' perspectives. Our goal is to build a decision support model that provides candidates with pertinent information as well as the ability to assess their choices during the application process. This model is driven by extensive machine learning based analysis of large amounts of historic data available on the web. Our analysis considers factors such as standardized test scores and GPA as well as world knowledge such as university reputation. The learning problem is modeled as a binary classification problem with latent variables that account for hidden information, such as multiple graduate programs within the same institution.

**DISADVANTAGES OF EXISTING SYSTEM:**

* In the existing process we have implemented only machine learning algorithms.
* In machine learning we implemented regression techniques only.
* For this concept we will get less accuracy and more complexity with regression techniques.

**Algorithm**: random forest, linear regression, knn.

**PROPOSED SYSTEM:**

In The Proposed system we have implemented both regression and classification algorithms in this method. Given a labeled dataset of 500 students who applied to a graduate program, we will find the machine learning algorithm which will very closely predict the chances of admission. And from these techniques, we will also extract some of the redundant and very important features. This paper also takes an approach to find the relation of the features for evaluating the chances of admission from a graduate school. We will also convert it into a classification problem and similarly evaluate a confusion matrix with the aid of classification algorithms and the dataset. Several Machine Learning techniques have been used here and comparative analysis on results of every approach has been done to formulate a novel approach to predict the probability of admission. Also, many powerful techniques such as Decision tree and naviebyes have also been used to predict the same.

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**ADVANTAGES OF PROPOSED SYSTEM:**

* We have implemented both regression and classification algorithms in this method to perform better accuracy.
* naviebyes gives good accuracy, power of flexibility from kernels.
* Decision tree are slow to converge and hard to set parameters but if done with care it works well.
* Bayesian classifiers are easy to understand.

**Algorithm**: Decision tree, naviebyes.