**Sreenidhi Institute of Science and Technology**

Project abstract for the academic year 2020-21

**Class**: III B.Tech **Branch** – Section:IT-C **Semester**: II

Title of the lab project:

**WINE QUALITY PREDICTION**

**Abstract:**

In recent years, most of the industries promoting their products based on the quality certification they received on the products. The traditional way of assessing the product quality is time consuming, however with the invent of machine learning techniques the processes has become more efficient and consumed less time than before. Our project explores the usage of machine learning techniques such as linear regression, neural network and support vector machine for product quality in two ways. Firstly, determine the dependency of target variable on independent variables and secondly, predicting the value of target variable. On the basis of computed dependency, important variables are selected those make significant impact on dependent variable. Further, neural network and support vector machine are used to predict the values of dependent variable. All the experiments are performed on Red Wine and White Wine datasets.

***Group Members:***

**J.SHIVA CHARAN** (18311A12D9)

**B.NITHIN KUMAR** (18311A12D2)

**CH.SAI CHARAN** (18311A12D3)