**Student Grade Analysis & Prediction**

Proposal of Project

**Data Set Information:**

This data approach student achievement in secondary education of two Indian schools. The data attributes include student grades, demographic, social and school-related features) and it was collected by using school reports and questionnaires. Two datasets are provided regarding the performance in two distinct subjects: Mathematics (mat) and Portuguese language (por). In [Cortez and Silva, 2008], the two data sets were modeled under binary/five-level classification and regression tasks. Important note: the target attribute G3 has a strong correlation with attributes G2 and G1.

This occurs because G3 is the final year grade (issued at the 3rd period), while G1 and G2 correspond to the 1st and 2nd period grades. It is more difficult to predict G3 without G2 and G1, but such prediction is much more useful (see paper source for more details).

**Problem Statement:**

The problem statement can be defined as follows ”Given a dataset containing attribute of 396 Portuguese students were using the features available from dataset and define classification algorithms to identify whether the student secures good in final grade exam, also to evaluate different machine learning models on the dataset.”

**Source:**

1. Cortez and A. Silva. Using Data Mining to Predict Secondary School Student Performance. In A. Brito and J. Teixeira Eds., Proceedings of 5th Future Business Technology Conference (FUBUTEC 2008) pp. 5-12, Porto, Portugal, April, 2008, EUROSIS, ISBN 978-9077381-39-7.