**Project 1: Data Analytics**

Provided is data for 1400 students with information about the kids' age, gender,

Class, height/weight, BMI and other parameters collected during the healthscreening.

**Goal** - Come up with data analytical model to run on a dataset that can co-relate

Various parameters. It will be interesting to analyse the various abnormalities and

Pull-up insights into the same.

**Demo goal** -

A) Show parameter pairs, tuples with high co-relation

B) Graphical output of the co-relation

C) Ability to take a new dataset, run the program and show the relevant

output in numbers, graphs and summary.

**Project 2: Data Mining**

Provided the data for 1400 students, need the following kind of summary reports

**Goal** -

A) Full summary report for the entire data set according to the school summary template provided.

B) Per school summary report

C) Reports for sub-normal, normal and abnormal distribution of data for any given

dataset or data-subset. The data subset can be derived by providing one or more

input paramter - such as gender, age etc.

**Demo Goal**

A) Take input parameter and show reports

B) Complete school summary report - in pdf format

C) Graphical output of distribution based on the normal range algorithm.

**Project 3: Web based Data mining**

**Goal** - All actions for Project 2 in web interface format.

**Demo goal**

A) Provide login interface for a school and for that school, details should be shown.

B) Drill down of parameters for the DB query to be provided - all kids in Class 8, all girls,

all obese kids etc

C) Graphical representation of data in form of pie chart, scatter plots, histogram etc