DATA 2010 Group Project

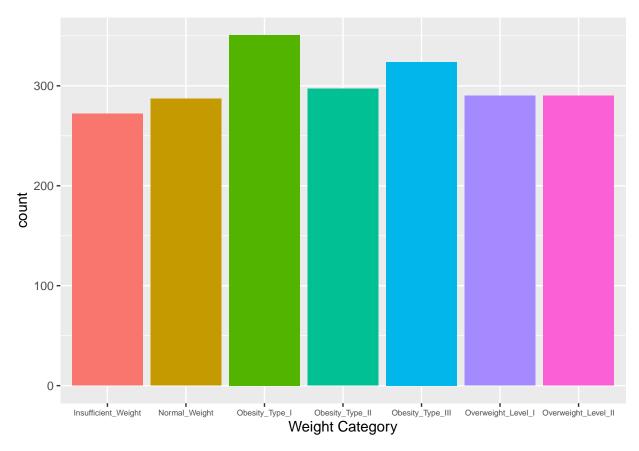
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This data comes from a study performed in Mexico, Peru and Colombia. It has 17 attributes and 2111 data points. It is the study of how people's eating habits and their physical condition have an effect on their level of obesity. It is important to note that up to 77% of this data has been synthetically generated because of greatly unbalanced number of samples between the different weight categories in the sample data. Therefore the data set is not completely real data. There are many response variables that are unclear from their shorthand names, so the following is a list for clarity. Frequent consumption of high caloric food (FAVC), Frequency of consumption of vegetables (FCVC), Number of main meals (NCP), Consumption of food between meals (CAEC), Consumption of water daily (CH20), and Consumption of alcohol (CALC). The attributes related with the physical condition are: Calories consumption monitoring (SCC), Physical activity frequency (FAF), Time using technology devices (TUE), Transportation used (MTRANS)

library(ggplot2)

Warning: package 'ggplot2' was built under R version 4.3.2



At this stage in our data analysis, we are observing how many people fall under each weight category and what the possible reasons are. The count of samples in each weight category is shown to be relatively even based on the plot shown above, so we know that there are many data points in each weight category that we can analyze to figure out possible reasons that people are overweight (or at least what factors correlate to being overweight). What we have been able to find out thus far (based on another plot that has not been included here) is that the amount of people that 'sometimes' drink alcohol are always the majority in every weight category, with the people that answered 'no' always being the second highest answer. Minimal people have answered 'frequently' and 'always', but we believe that this data may be skewed as a result of the data being collected voluntarily by members of the public who may not feel comfortable disclosing an alcohol problem which may be seen as a negative trait. We also noticed that in the 'Overweight_Level_I', 'Obesity_Type_II' and 'Obesity_Type_III' Category, the number of people that answer 'sometimes' for alcohol is significantly higher than the number of people that answer 'no', compared to the rest of the categories.

The direction that we want to go with this is... (we need to come to a conclusion here