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| **Project Overview** | **Project Name** | **Project Manager** |
|  | **An Analysis of Risk Factors of Obesity Using ML Models** | **Samyuktha Donthiboina** |

**Question:** Can you predict the possibility of occurrence of obesity in the early stages using previously recorded data? Is smoking really a factor that affects obesity?

**Dataset:**

**Link:**

<https://archive.ics.uci.edu/ml/datasets/Estimation+of+obesity+levels+based+on+eating+habits+and+physical+condition>+

In this data the Dietary, exercise and particular diurnal habits of individualities from Mexico, Peru and Columbia are recorded to make estimation of rotundity situations.  
rotundity position will be used as the target(y) variable, which consists of 7 classes- Insufficient Weight, Normal Weight, fat position I, fat position II, rotundity Type I, rotundity Type II and rotundity Type III.  
There are 17 attributes in total affiliated to individual habits that are likely to determine rotundity situations, similar as number of main reflections, time using technology bias, gender and transportation used.  
The values of some of the attributes from the original data set are numerical and does not describe the factual answers handed by individualities. To visualise the data, I haves assigned the corresponding answer to each numerical value and temporary converted the entire data set into a categorical data for conniving.  
**Objectives:**

Use models to predict the data with high accuracy output.

Use strength and weakness to analyze the dataset.

Proper research & planning on dataset to predict the features.

**Success Criteria:**

Project is completed successfully.

Discuss the significance or importance of the results.

Aim for accuracy from utilized models is high & accurate.

Project will be posted on my profile with accurate reports & results.

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| Prepared by | Date | Approved by and date. |
| Samyuktha Donthiboina | Feb 21st ,2023 |  |