



Model Development Phase Template

Date	20 June 2024
Team ID	739813
Project Title	Optimizing Sleep Efficiency: Harnessing Machine Learning For Enhanced Restorative Rest
Maximum Marks	5 Marks

Feature Selection Report Template

In the forthcoming update, each feature will be accompanied by a brief description. Users will indicate whether it's selected or not, providing reasoning for their decision. This process will streamline decision-making and enhance transparency in feature selection.

Feature	Description	Selected (Yes/No)	Reasoning
ID	Unique identifier for each person	Yes	ID is using for serial wise data is stored
Age	Age of the participant	Yes	Any age is healthy
Gender	Identifier for male or female	Yes	To find out which gender is healthy





Bedtime	Each person on sleep time	No	Bedtime and Date is not convert to float
Wakeup time	How many people sleep wake time	No	Wakeup time and date is not convert to float
Sleep duration	Total hours of sleep	Yes	To find out which sleep duration is healthy
Sleep efficiency	The percentage of time spent asleep while in bed	Yes	How many hours should be in bed stay healthy
REM sleep percentage	Sleep is one of four stages the brain moves through while sleeping. REM sleep percentage is 20%-25%	Yes	Calculated for Sleep is one of four stages the brain moves through while sleeping
Light sleep percentage	On average, light sleep will take up about 50% to 60% or more your night.	Yes	Calculated for Light sleep percentage
Awakenings	Number of awakenings during the night	Yes	In the night How many awakenings





Caffeine consumption	Amount of caffeine consumption daily	Yes	Is Caffeine consumption good for health
Alcohol consumption	Amount of Alcohol consumption daily	Yes	Reducing alcohol consumption to stay healthy
Smoking status	Whether the participant smokes(yes/no)	Yes	Health purpose is checking for smoking is yes or no
Exercise frequency	Frequency of physical exercise	Yes	How many hours exercise is good health