

## Model Development Phase Template

Date	15 March 2024
Team ID	738214
Project Title	Predicting Mental Health Illness Of Working Professionals Using Machine Learning.
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
Work-life Balance Score	Self-reported score on a scale indicating satisfaction with work-life balance. This feature directly relates to the target variable (mental health) and provides valuable insight into potential work-related stressors.	Yes	This feature directly relates to mental health and provides a quantitative measure of work-life satisfaction, a potential stressor.

Industry	Industry sector of the participant's workplace (e.g., Tech, Finance, Healthcare). This feature might be indirectly related to mental health, with some industries potentially having higher stress levels.	Maybe	While industry might be relevant, the current data might not have enough granularity to capture meaningful differences. Further analysis is needed to assess its impact on mental health. Consider excluding it initially and revisiting if industry-specific trends emerge.
Number of Dependents	Number of people financially dependent on the participant (e.g., children, spouse). This feature could be relevant as dependents can add stress, but it might require further analysis to determine its significance compared to other factors like income.	Maybe	This feature has the potential to be a stress factor, but its impact might be mitigated by income. Explore correlations with income before making a final decision. Consider excluding it initially and revisiting if analysis suggests a significant relationship with mental health.
Age	Chronological age of the participant in years. This is a well-established demographic factor that can influence mental health experiences.	Yes	Age is a relevant demographic factor that can influence mental health experiences.