

## Model Development Phase Template

Date	20 June 2024
Team ID	739903
Project Title	Mental health prediction
Maximum Marks	5 Marks

### Feature Selection Report Template:

The feature selection report for the mental health prediction model highlights key

Feature	Description	Selected (Yes/No)	Reasoning
Patient_ID	Unique identifier for each patient	No	For predicting mental health, a Patient ID is not required.
Gender	Gender of the patient	Yes	Gender can influence the prevalence and type of mental health issues.
Marital_Status	Marital status of the patient	Yes	Marital status can impact mental health through social support and life stressors.
Dependents	Number of dependents	Yes	Financial and emotional responsibilities can affect mental health.

predictors, including age, gender, lifestyle habits, medical history, and social factors, enhancing model accuracy and reliability in identifying mental health risks.

Employment_Status	Employment status (e.g., employed, self-employed, unemployed)	Yes	Employment status can influence stress levels and mental well-being.
Income	Income level of the patient	Yes	Income can affect access to mental health resources and overall well-being.
Physical_Health_Status	General physical health status	Yes	Physical health is closely linked to mental health.
Family_History	Family history of mental health issues	Yes	Genetic predisposition plays a role in mental health conditions.
Sleep_Patterns	Sleep patterns and quality	Yes	Sleep is crucial for mental health.
Mental_Health_Status	The target variable indicating the current mental health status (e.g., no issues, mild, moderate, severe)	Yes	The target variable for predictive modeling – essential for the project's goal.