

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	Numberof dependents	Yes	Financialandemotional responsibilitiescanaffectmental health.
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ModelDevelopmentPhaseTemplate

Date	20June2024
TeamID	740007
ProjectTitle	Mentalhealthprediction
MaximumMarks	5Marks

FeatureSelectionReportTemplate:

Thefeatureselectionreportforthementalhealthpredictionmodelhighlightskey

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

Employment_Status	Employmentstatus(e.g., employed,self-employed, unemployed)	Yes	Employmentstatus caninfluence stresslevelsand mentalwell-being.
Income	Incomelevelofthepatient	Yes	Incomecanaffect accesstomental healthresources andoverallwellbeing.
Physical_Health_Status	Generalphysicalhealth status	Yes	Physicalhealthis closelylinkedto mentalhealth.
Family_History	Familyhistoryofmentalhea issues	Yes	Genetic predisposition playsarolein mentalhealth 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.