

## 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
Timestamp	Captures the date and time when the survey response was recorded.	No	This column do not contribute to providing relevant information.
Age	Represents the age of the respondents.	Yes	Captures the age of respondents
Gender	Indicates the gender identity of the respondents.	Yes	Captures the gender identity of respondents.
Country	Records the country of residence of the	No	Countries are not evenly distributed, keeping this column will induce bias in our model.

	respondents.		
state	If you live in the United States, which state or territory do you live in?	No	Since we are deleting the country column we do not need state column as well.
self_employed	Are you self-employed?	Yes	Indicates if respondents are self-employed.
family_history	Do you have a family history of mental illness?	Yes	Indicates if respondents have a family history of mental illness.
treatment	Have you sought treatment for a mental health condition?	Yes	Indicates if respondents sought treatment for mental health conditions.
work_interfere	If you have a mental health condition, do you feel that it interferes with your work?	Yes	Captures if mental health conditions interfere with work.
no_employees	How many employees does your company or organization have?	Yes	Indicates company size by number of employees.
remote_work	Do you work remotely (outside of an office) at least 50% of the time?	Yes	Indicates if respondents work remotely.

tech_comp any	Is your employer primarily a tech company/organization?	Yes	Indicates if employer is a tech company.
benefits	Does your employer provide mental health benefits?	Yes	Indicates if employer provides mental health benefits.
care_options	Do you know the options for mental health care your employer provides?	Yes	Indicates awareness of mental health care options provided by employer.
wellness_program	Has your employer ever discussed mental health as part of an employee wellness program?	Yes	Indicates if mental health is part of employee wellness program.
seek_help	Does your employer provide resources to learn more about mental health issues and how to seek help?	Yes	Indicates if employer provides resources for seeking mental health help.
anonymity	Is your anonymity protected if you choose to take advantage of mental health or substance abuse treatment resources?	Yes	Indicates if anonymity is protected for seeking mental health treatment.
leave	How easy is it for you to take medical leave for a mental health condition?	Yes	Indicates ease of taking leave for mental health conditions.

mental_health_consequence	Do you think that discussing a mental health issue with your employer would have negative consequences?	Yes	Perception of discussing mental health with employer.
phys_health_consequence	Do you think that discussing a physical health issue with your employer would have negative consequences?	Yes	Perception of discussing physical health with employer.
coworkers	Would you be willing to discuss a mental health issue with your coworkers?	Yes	Willingness to discuss mental health with coworkers.
supervisor	Would you be willing to discuss a mental health issue with your direct supervisor(s)?	Yes	Willingness to discuss mental health with direct supervisors.
mental_health_interview	Would you bring up a mental health issue with a potential employer in an interview?	Yes	Willingness to bring up mental health in job interviews.
phys_health_interview	Would you bring up a physical health issue with a potential employer in an interview?	Yes	Willingness to bring up physical health in job interviews.
mental_vs_physical	Do you feel that your employer takes mental	Yes	Perception of employer's seriousness towards mental health.

	health as seriously as physical health?		
obs_consequence	Have you heard of or observed negative consequences for coworkers with mental health conditions in your workplace?	Yes	Awareness of negative consequences for mental health disclosure in workplace.
comments	Any additional notes or comments	No	This column do not contribute to providing relevant information.