



## **Model Development Phase Template**

Date	15 July 2024
Team ID	740044
Project Title	One year life expectancy post on Thoracic Surgery 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
---------	-------------	-------------------	-----------

Diagnosis	Type of diagnosis	Yes	For predicting the life expectancy diagnosis is not required.
FVC		Yes	Relevant for lung function test
rvc	Patient lung test	ies	potential bias in patient life expectancy
Performance Ye of the Patient	Status	I	status can impact on life expectancy.
Pain	presence or absence of pai	Yes	Indicates patients respiratory and Lung capacity.
Haemoptysis	Coughing up blood	Yes	The presence or absence of coughing up blood.
Dyspnea	Difficulty in breathing	Yes	The presence or absence of difficulty in breathing.

Cough	Coughing	Yes		The presence or absence of coughing.
Weakness	Patient weakness	Yes		The presence or absence of weakness.
Tumor Size	Size of tumor	Yes		fferent patients individuals may have ferent sizes of tumor.
Diabetes  Mellitus	presence or absence of diabetes mellit	Yes The	Th	e presence or absence of diabetes mellitus.
MI_6mo	Myocardial Infarction	Yes		thin the past 6 months presence or absence a myocardial infarction
PAD	Peripheral Arterial disease	Yes		ripheral arterial disease presence or sence
Smoking	Smoking history	Yes I	Sm	ooking history of a patient

Asthma	 Asthma history	Yes	If there is asthma disease in medical history.
Age Yes	Age of the patient	I	

Different patients have different ages