

## Model Development Phase Template

Date	10 July 2024
Team ID	SWTID1720080033
Project Title	<b>Anemia Sense: Leveraging Machine Learning For Precise Anemia Recognitions</b>
Maximum Marks	5 Marks

### Feature Selection Report

Feature	Description	Selected (Yes/No)	Reasoning
Hemoglobin	Hemoglobin is a protein in red blood cells that carries oxygen	Yes	Anemia is diagnosed when a blood test shows a hemoglobin value of less than 13.5 gm/dl in a man or less than 12.0 gm/dl in a woman
MCH (Mean corpuscular hemoglobin)	mean corpuscular hemoglobin, which is a measurement of the average amount of hemoglobin in red blood cells	Yes	High or low numbers may indicate a vitamin deficiency or certain types of anemia.
MCHC (Mean corpuscular hemoglobin concentration)	A blood test that measures the average amount of hemoglobin in red blood cells	Yes	The MCHC value is used to evaluate the severity and cause of anemia.

hemoglobin concentration)	red blood cells (RBCs) in relation to the cell's volume, (Concentration)		
MCV (Mean corpuscular volume)	blood test that measures the average size of red blood cells (RBCs) in a blood sample	Yes	MCV blood test can help your healthcare provider determine if you have anemia, liver disease or other conditions.
Gender	Sex of the Patient	Yes	Measurement standards to diagnose anemia are gender-dependent.