

Model Development Phase Template

Date	12 June 2024
Team ID	SWTID1720112707
Project Title	Anemia Sense: Leveraging Machine Learning For Precise Anemia Recognitions
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
Age	Age of Patient	No	Not selected due to lesser impact compared to other features.
Gender	Gender of the patient (Male/Female)	Yes	Gender differences can affect hemoglobin levels and anemia risk.
Hemoglobin	Hemoglobin level in the blood	Yes	Hemoglobin levels are directly related to the diagnosis of anemia.
MCH	Mean Corpuscular Hemoglobin (average amount of hemoglobin)	Yes	MCH provides insights into the hemoglobin content in individual RBCs.

MCHC	Mean Corpuscular Hemoglobin Concentration	Yes	MCHC helps understand the concentration of hemoglobin in red blood cells.
MCV	Mean Corpuscular Volume (average volume of red blood cells)	Yes	MCV helps differentiate types of anemia based on cell size.
RBC Count	Red Blood Cell count	No	Not selected as it showed redundancy with other selected features.
Hematocrit	Proportion of blood volume occupied by red blood cells	No	Not selected due to correlation with Hemoglobin and MCV.