



Model Development Phase Template

Date	15 June 2025
Team ID	SWTID1749621188
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	Patient's age in years	Yes	Age can influence hemoglobin levels and anemia risk.
Gender	Biological sex of the patient	Yes	Anemia prevalence differs between males and females.
Hemoglobin	Level of hemoglobin in blood	Yes	Primary indicator of anemia; highly relevant.
MCV	Mean Corpuscular Volume	Yes	Helps identify anemia type (microcytic/normocytic/macrocytic).
MCH	Mean Corpuscular Hemoglobin	Yes	Important for evaluating red blood cell hemoglobin content.
MCHC	Mean Corpuscular Hemoglobin Concentration	Yes	Supports deeper anemia classification.





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RBC Count	Red Blood Cell count	Yes	Low RBC count may indicate anemia; biologically relevant.
WBC Count	White Blood Cell count	No	Not directly related to anemia diagnosis; excluded to reduce noise.
Platelet Count	Platelet count in blood	No	Not strongly correlated with anemia; excluded to avoid irrelevant features.
Target (Label)	Indicates whether the patient is anemic or not (1 = anemic, 0 = non-anemic)	N/A	This is the prediction target, not an input feature.