Model Development Phase Template

Date	28 July 2025
Team ID/ Skill Wallet ID	**SWUID20250195143**
Project Title	Anemia Sense: Leveraging Machine Learning For Precise Anemia Recognitions
Maximum Marks	5 Marks

Feature Selection Report Template

In this phase, each dataset feature is reviewed with a brief description, selection status, and reasoning. This ensures that only medically relevant attributes are retained, streamlining model development and enhancing transparency in the feature selection process.

Feature	Description	Selected (Yes/No)	Reasoning
Gender	Patient's gender male)	Yes	May help identify gender-based patterns in anemia prevalence.
Hemoglobin	Hemoglobin level in g/dL	Yes	Primary diagnostic indicator for anemia.
MCH	Mean Corpuscular Hemoglobin (pg)	Yes	Key red blood cell parameter useful for anemia classification
MCHC	Mean Corpuscular Hemoglobin Concentration (g/dL)	Yes	Important for detecting anemia type and severity.

MCV	Mean Corpuscular Volume (fL)	Yes	Helps differentiate between microcytic, normocytic, and macrocytic anemia.
Result	Anemia diagnosis label (0 = no anemia, 1 = anemia)	Yes	Target variable for prediction.