**Model Development Phase Template**

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| Date | 5 JULY 2024 |
| Team ID | 739661 |
| Project Title | Anemiasense: Leveraging Machine Learning For Precise Anemia Recognitions |
| Maximum Marks | 5 Marks |

**Feature Selection Report Template**

This template provides a structured framework for documenting the feature selection process in the "Anemiasense" project, ensuring clarity and transparency in the selection of features crucial for accurate predictive modeling of anemia.

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| **Feature** | | **Description** | | | **Selected (Yes/No)** | | **Reasoning** |
| Gender | | Gender of the patient. | | | Yes | | Potential differences in anemia prevalence between genders. |
| Hemoglobin | | Level of hemoglobin in the blood. | | | Yes | | Directly correlates with the severity of anemia and is essential for diagnosing and monitoring anemia. |
| MCH | | Average amount of hemoglobin in red blood cells. | | | Yes | | Provides crucial information about the amount of hemoglobin per red blood cell, aiding in anemia diagnosis. |
| MCHC | | | Concentration of hemoglobin in red blood cells. | | Yes | | Helps assess the concentration of hemoglobin within red blood cells, which is vital for diagnosing certain types of anemia. |
| MCV | Average volume of red blood cells. | | | Yes | | MCV helps distinguish between different types of anemia (e.g., microcytic, macrocytic). | |