**Model Development Phase Template**

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| Date | 03 February 2025 |
| Team ID | xxxxxx |
| Project Title | Implementing AgriPrediction using Machine Learning |
| 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.

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| **Feature** | **Description** | **Selected (Yes/No)** | **Reasoning** |
| Temperature | Average temperature, affecting crop growth. | Yes | Crucial for yield and soil health predictions. |
| Rainfall | Total rainfall, influencing irrigation and yield. | Yes | Vital for predicting water requirements and yield. |
| Soil pH | Soil acidity or alkalinity, affecting nutrient availability. | Yes | Directly impacts crop growth and soil health. |
| Humidity | Air moisture level, impacting growth and pests. | Yes | Affects crop development and pest issues. |
| Soil Moisture | Water content in the soil, critical for irrigation needs. | Yes | Essential for predicting crop health and water usage. |
| Crop Type | Type of crop being grown (e.g., wheat, rice). | No | Adds complexity without improving predictions. |
| Pest Infestation | Presence of pests affecting crops. | Yes | Helps in early detection of crop health issues. |
| Wind Speed | Average wind speed, influencing crop damage. | No | Minimal impact on crop prediction compared to other factors. |