**Model Development Phase Template**

**Model Selection Report**

In the forthcoming Model Selection Report, various models will be outlined, detailing their descriptions, hyperparameters, and performance metrics, including Accuracy or F1 Score. This comprehensive report will provide insights into the chosen models and their effectiveness.

| **Model Description** |  | **Performance Metric (e.g., Accuracy, F1 Score)** |
| --- | --- | --- |
| **Gemini Pro** Google's generative AI model is designed for content generation, natural language understanding, and image analysis. Utilized to analyze food images and generate detailed nutritional breakdowns. |  | **Accuracy:** High precision in nutritional analysis and calorie estimation.  **Response Time:** Average 2-3 seconds |
| **Input Prompt Engineering** Careful design of prompts to guide the model in generating accurate and contextually relevant responses. |  | **User Satisfaction:** Positive feedback from users on the relevance and usefulness of the recommendations. |
| **Image Quality** Ensuring high-quality image inputs for better visual analysis and more accurate output from the model. |  | **Scalability:** Can handle large datasets and multiple users concurrently without significant performance degradation. |