**Model Development Phase Template**

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| Date | 11 July, 2024 |
| Team ID | SWTID1720173354 |
| Project Title | Gemini Health Application |
| Maximum Marks | 5 Marks |

**Model Selection Report**

Using artificial intelligence for nutritional analysis, this research evaluates possible deep learning models for the Nutritionist AI smartphone application. Finding a model that strikes a compromise between computing demands, complexity, and effectiveness for real-time mobile application use is the main objective.

**Model Selection Report:**

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| **Model** | **Description** | | | |
| **Synopsis** | **Strengths** | **Weaknesses** | **Consideration for Nutritionist AI** |
| Model 1:  Gemini Pro Vision (Pre-Trained) | A pre-trained, large language model with computer vision capabilities from Google AI. It can analyze images and generate text descriptions. | - Proven performance in image recognition and text generation.  - Handles complex tasks like analyzing food items.  - Potentially avoids the need for extensive custom training. | - Black box nature  - Limited control over model internals.  - Requires Google Cloud Platform for deployment (consider cost and latency). | **Baseline Model:** Strong baseline due to its pre-trained capabilities and ability to handle food image analysis. |