Model Development Phase Template

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:

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.