## Project Development Phase Model Performance Test

Date	30 June 2025
Team ID	LTVIP2025TMID59682
Project Name	Comprehensive Analysis and Dietary Strategies with Tableau – A College Food Choices Case Study
Maximum Marks	

## Model Performance Testing:

S. No.	Parameter	Screenshot / Values
1	Data Rendered	Rendered from cleaned CSV files with college student food choice
		data including GPA, Gender, dietary habits, comfort food preference
		, nutritional intake, and lifestyle factors. ✓ Loaded <b>500+ student</b>
		records with 50+ variables covering demographics, academic
		performance, eating patterns, and food preferences.
2	Data Preprocessing	- Missing values handled using appropriate imputation methods –
		Categorical variables encoded (comfort_food_reasons_
		coded, diet_current_coded, fav_cuisine_coded) - Numerical
		variables standardized (GPA, calories_day, income) - Data type
		conversions applied for proper analysis - Outlier detection and
		treatment (GPA, caloric intake)
	Utilization of Filters	Tableau filters applied for: - Gender (Male/Female) - Grade Level
		(Undergraduate/Graduate) - Employment Status - Diet Type
3		(Current vs Ideal) - Cuisine Preferences (Greek, Indian, Italian,
		Persian, Thai) - GPA Ranges - Income Brackets - Exercise/Sports
		Participation ✓ Filter response time: 2–3 seconds
4	Calculation Fields	Created calculated fields for: - Average Daily Caloric Intake by
4	Calculation Fields	Demographics - GPA vs Dietary Habits Correlation - Comfort

S. No.	Parameter	Screenshot / Values
		Food Preference Percentage - Nutritional Balance Score - Exercise
		vs Eating Pattern Index - Cuisine Diversity Metric - Healthy Eating
		Score - Academic Stress vs Food Choice Indicator
		Total Dashboards: 5
		1. Student Demographics Overview (4 visualizations)
		2. Dietary Habits & Preferences Analysis (5 visualizations)
5	Dashboard Design	3. Academic Performance vs Food Choices (4 visualizations)
		4. Nutritional Intake & Health Metrics (6 visualizations)
		5. Lifestyle & Food Behavior Insights (4 visualizations)
		✓ Total Visualizations: 23
		Total Stories: 3
		1. "The College Student Food Journey" (5 story points) -
		Demographics introduction - Food preference evolution - Academic
		pressure impact - Nutritional awareness - Lifestyle influences
6	Story Design	2. "Dietary Strategies for Academic Success" (4 story points) - GPA
		correlation analysis - Optimal eating patterns - Comfort food
		insights – Recommendations
		3. "Campus Food Culture Analysis" (3 story points) - Cultural cuisin
		behaviors - Future dietary aspirations