Project Development Phase
Model Performance Test

Date	14 June 2025
Team ID	LTVIP2025TMID47655
Project Name	A College Food Choices Case Study
Maximum Marks	4 Marks

🧪 Model Performance Testing (Customized for Your Project Topic)

Project Topic : *Comprehensive Analysis and Dietary Strategies with Tableau: A College Food Choices Case Study*

S.No.	Parameter	Screenshot / Values
1.	**Data Rendered**	The dataset used contains 1000+ entries related to college students' food choices and dietary patterns. Key fields include:• Meal_Type• Eating_Location• Weekly_Frequency• Calories_Intake• Diet_Preference (Veg/Non-Veg/Vegan)• BMI_Category• Gender
2.	**Data Preprocessing**	- Verified and standardized column types- Removed missing/null entries- Renamed ambiguous column headers for better Tableau readability (e.g., "MealFreq" → "Weekly_Frequency")
3.	**Utilization of Filters**	Global filters applied across all visualizations:• Meal Type (Breakfast/Lunch/Dinner/Snacks)• Gender• BMI Category• Diet Preference• Frequency (1-2x, 3-5x, Everyday, Never)
4.	**Calculation Fields Used**	- Avg Weekly Calories = `SUM([Calories_Intake]) / COUNTD([Week])` - BMI Range Label = IF BMI < 18.5 THEN 'Underweight' ELSEIF BMI < 24.9 THEN 'Normal' ELSE 'Overweight'- Health Score = Weighted index based on Calories, Diet Type, and Frequency
5.	**Dashboard Design**	Dashboard includes:• **Bar Chart** – Average Calorie Intake by Meal Type• **Pie Chart** – Diet Preferences Distribution• **Heat Map** – Weekly Frequency vs BMI• **Line Chart** – Trend of Eating Out vs Health Score• **Stacked Bar** – Gender-wise Meal Choices• **Highlight Table** – Diet Type vs BMI Category
6.	**Story Design**	Story includes:• Overview of Student Dietary Habits• Impact of Eating Frequency on Health• Nutritional Gaps in Popular Meal Types• Insights & Recommendations for Dietary Improvements