**Project Development Phase**

**Model Performance Test**

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| Date | 25 June 2025 |
| Team ID | LTVIP2025TMID48490 |
| Project Name | **Comprehensive Analysis and Dietary Strategies with Tableau** |
| Maximum Marks |  |

**Model Performance Testing:**

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| **S.No.** | **Parameter** | **Screenshot / Values** |
|  | Data Rendered | User dietary logs (meals, quantities, nutrients), user profiles, goal settings, external nutrition API feeds |
|  | Data Preprocessing | Null handling on missing entries - Data type conversions - Nutrient standardization using lookup tables - Daily aggregation of intake per user |
| 3. | Utilization of Filters | Date Range Selector - Nutrient Type (e.g., Carbs, Protein, Fiber) - Meal Type (Breakfast, Lunch, Snack) - User Goal (e.g., Weight Loss, Maintenance) |
| 4. | Calculation fields Used | Daily Caloric Total - Macro % Distribution - Nutrient Deficiency Score - BMI–Calorie Correlation Index |
| 5. | Dashboard design | No of Visualizations / Graphs -*6* Includes Pie Chart (macro split), Line Graph (weekly trend), Heatmap (meal log frequency), Bar Chart (nutrient intake), KPI tiles (goals), and Scatter Plot (BMI vs intake) |
| 6 | Story Design | No of Visualizations / Graphs -*5* Structured into: 1) Overview, 2) Macro Tracker, 3) Trends & Gaps, 4) Personalized Suggestions, 5) Progress Over Time |