Project Design Phase Problem – Solution Fit Template

| Date | 16 March 2025 |
|---------------|-----------------------------------------------|
| Team ID | PNT2025TMID07288 |
| Project Name | Global Food Production Trends and Analysis: A |
| | Comprehensive Study from 1961 to 2023 Using |
| | Power BI |
| Maximum Marks | 2 Marks |

Problem – Solution Fit Template:

The Problem-Solution Fit simply means that you have found a problem with your customer and that the solution you have realized for it actually solves the customer's problem. It helps entrepreneurs, marketers and corporate innovators identify behavioral patterns and recognize what would work and why



| Section | Details |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Problem Statement | Global food production trends fluctuate due to climate change, economic shifts, and technological advancements. There is a lack of accessible, data-driven insights for policymakers, researchers, and agricultural stakeholders to make informed decisions. |
| Who is affected? | - Agricultural policymakers and strategists - Data analysts and researchers in the food industry - Farmers and agribusiness professionals - Economists and supply chain managers |
| Current Challenges | - Data complexity and large datasets from multiple sources - Difficulty in identifying long-term production trends - Lack of real-time visualization and forecasting capabilities |
| Proposed Solution | A Power BI-based dashboard that integrates global food production data (1961-2023) to provide visual insights, trend analysis, and forecasting tools. The solution offers: - Data preprocessing & cleaning for accuracy - Interactive dashboards for visualization - Trend predictions using historical data - Custom reports for policymakers and stakeholders |
| How does the solution address the problem? | - Simplifies data analysis by aggregating multiple datasets in a single Power BI dashboard - Uses visual analytics and forecasting models to highlight trends in food production - Reduces complexity and improves decision-making for agricultural stakeholders |
| Key Benefits | - Enhanced decision-making for sustainable agriculture - Improved forecasting for food security and economic stability - Time efficiency by automating analysis and report generation - Scalability to accommodate future datasets and advanced analytics |