

Ideation Phase

Define the Problem Statements

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| Date | 22 MARCH 2025 |
| Team ID | PNT2025TMID06994 |
| Project Name | Global Food Production Trends and Analysis: A Comprehensive Study from 1961 to 2023 Using Power BI |
| Maximum Marks | 2 Marks |

ABC Company undertook a comprehensive study of global food production trends from 1961 to 2023. The analysis encompassed key agricultural commodities, revealing that total rice production amounted to 269 billion tonnes, while wheat production reached 282 billion tonnes. The study highlighted that tea production stood at 2 billion tonnes, with Africa emerging as the leading producer of green coffee. Additionally, the research underscored a steady rise in wheat, maize, and rice production over the years, with wheat showing the most significant increase. the production volumes of apples, avocados, bananas, and oranges by different regions, identifying Europe and Asia as significant contributors. Maize production demonstrated consistent growth, particularly from the late 1980s onward. The study further indicated that grapes had the highest total production among fruits at 43 billion tonnes, followed by apples, bananas, and oranges.

| Problem Statement (PS) | I am (Customer) | I'm trying to | But | Because | Which makes me feel |
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| PS-1 Lack of real time data insights | Agriculture analyst | Gain accurate data | Data is insatiable it creates difficulty | I need proper visualization for decision making | Frustration due to difficulties in consolidating and interpreting data. |
| PS-2 Data Integration and Cleaning Challenges | Variability in data sources and reporting standards across regions | Identify key contributors to the production of major agricultural commodities and fruits | Difficulty in consolidating and analysing large datasets spanning multiple decades | Uneven distribution of resources and cultivation practices across different regions | Concern over the challenges of global food security and resource allocation. |
| PS-3 Regional and Commodity-Specific Analysis | Understanding And making polices | The data is to segmented and properly aligned | Data segmentations is not easy | Effective planning require for polices | Disappointment in the production disparities among regions, leading to unequal access to food |

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| PS-4 Time-Series Analysis and seasonal analysis | Understanding which is contributing more food from which state and item specific | strategic decision by providing actionable insights into crop growth commodity demands | Fluctuations in crop production due to environment and climate factors. | The lack of standardized methodologies for global data collection and reporting in the agricultural sector | A sense of urgency to address climate and sustainability issues affecting production |
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