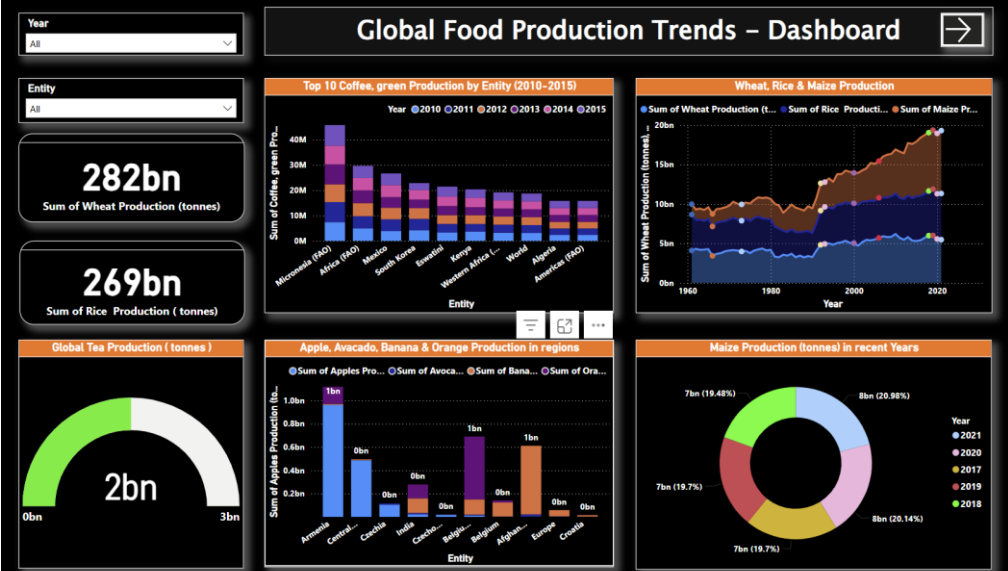


## Project Development Phase Model Performance Test

Date	10 February 2025
Team ID	PNT2025TMID04288
Project Name	<b>Global Food Production Trends and Analysis</b>
Maximum Marks	

### Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Screenshot / Values
1.	Data Rendered	Global Food Production Data specifications-2093 kb,11912 rows,24 columns
2.	Data Preprocessing	Cleaned out the null values in all the columns and also changed the data format for all the columns to whole number in the dataset.
3.	Utilization of Data Filters	Used data filter for years and entities in visualizations - <ul style="list-style-type: none"> <li>Used basic filtering on years in the maize production visual</li> <li>Used basic filtering entity and years in the fruits production visual</li> <li>Used basic filtering on entities in coffee production</li> </ul> Top N Filter in Coffee, green Production by Entity To see top 10
4.	DAX Queries Used	Used addition of values from columns having fruit production: - fruit production = 'world food production'[Apples Production (tonnes)] +'world food production'[Bananas Production (tonnes)] +'world food production'[Oranges Production (tonnes)] +'world food production'[Grapes Production (tonnes)] +'world food production'[Avocados Production (tonnes)]
5.	Dashboard design	 <p>The dashboard, titled 'Global Food Production Trends - Dashboard', provides a comprehensive overview of food production data. It includes several key visualizations:</p> <ul style="list-style-type: none"> <li><b>Global Wheat Production (tonnes):</b> A KPI card showing 282bn tonnes.</li> <li><b>Global Rice Production (tonnes):</b> A KPI card showing 269bn tonnes.</li> <li><b>Global Tea Production (tonnes):</b> A gauge chart showing 2bn tonnes.</li> <li><b>Top 10 Coffee, green Production by Entity (2010-2015):</b> A stacked bar chart showing production trends for various entities.</li> <li><b>Wheat, Rice &amp; Maize Production:</b> A line chart showing the sum of production for these three crops from 1960 to 2020.</li> <li><b>Apple, Avocado, Banana &amp; Orange Production in regions:</b> A bar chart showing production in different regions.</li> <li><b>Maize Production (tonnes) in recent Years:</b> A donut chart showing the distribution of production across different years (2019-2021).</li> </ul>



**Report**

Wheat production: 282bn ton.

Rice production: 269bn ton.

Tea production: 2bn ton.

The highest production occurred in a year marked as 5bn ton (21.3% of total).

Wheat, rice, and maize production has generally increased since 1960.

Armenia and Belgium are major producers of apples.

Other regions, like Croatia and some European countries, have minimal fruit production.

Micronesia, Madagascar, and Kenya also have significant coffee production.

Global food production is increasing, with maize, wheat, and rice showing long-term growth.

Fruit production is regionally distributed, with some areas specializing in specific crops.

Coffee production is concentrated in Africa and a few select countries.

Tea production is relatively lower compared to staple grains like wheat and rice