SUMMERY

**Define the problem**: The Agriculture business domain, as a vital part of the overall supply chain, is expected to highly evolve in the upcoming years via the developments, which are taking place on the side of the Future Internet.

This paper presents a novel Business-to-Business collaboration platform from the agri-food sector perspective, which aims to facilitate the collaboration of numerous stakeholders belonging to associated business domains, in an effective and flexible manner.

This dataset provides a huge amount of information on crop production in India ranging from several years. Based on the Information the ultimate goal would be to predict crop production and find important insights highlighting key indicators and metrics that

influence the crop production. Make views and dashboards first.

**Gather and clean the data**: Collected dataset in the.csv format. Next, cleaned the dataset

Where filled null values and removed noise from it.

**Analysed the data using Python**: Used Python libraries such as Pandas, NumPy, and Matplotlib to analyse the data and create visualizations that helped me to identify patterns and trends. This was involved calculating summary statistics, creating histograms and scatter plots, and using regression analysis to identified correlations.

**Export the data to Power BI**: Exported the cleaned and analysed data to Power BI, which is a powerful visualization tool that allows you to create interactive dashboards and reports. Used Power BI to create visualizations such as charts, graphs, and maps that helped me tell a story with the data.

**Refining the visualizations**: Used the Power BI visualization tools to refine visualizations and made them more engaging and informative. This was involved with adding interactive features such as filters, slicers, and drill-downs, and customizing the appearance of the visualizations to make them more visually appealing.

**Presenting my findings**: Used Power BI dashboard to present findings to stakeholders. This was involved of creating a PowerPoint presentation summarizes my analysis and presented some my recommendations.

**Iterate and refine**: Iterated on the analysis and visualizations based on feedback from stakeholders, and refined the approach as needed to ensure that the insights were as clear and impactful as possible.