

# NEXT GEN EMPLOYABILITY PROGRAM

## CREATING A FUTURE-READY WORKFORCE

**Student Name :** Devika C R

**Student ID :** STU656aae9325efe1701490323

**Mobile No:** 7892827342

**Mail ID:** Devikacr6662@gmail.com

**College Name :**  
XYZ



## CAPSTONE PROJECT SHOWCASE

Project Title

**Power BI Driven Exhaustive Analysis of the  
Indian Agriculture Sector**

Abstract | Problem Statement | Project Overview | Proposed Solution |  
Technology Used | Modelling & Results | Conclusion | Q&A

## Abstract

1

Identify areas of strength and weakness within the Indian agricultural sector.

2

Formulate data-driven recommendations for policymakers and stakeholders to address critical challenges.

3

Gain a deeper understanding of the factors influencing agricultural productivity and profitability.

4

Focus on Sustainability

## Problem Statement:

The Indian agricultural sector, despite its significant contribution to the nation's economy and employment, faces numerous challenges that hinder its growth and productivity. These challenges include:

- Limited visibility into critical data.
- Inefficiencies in resource utilization.
- Volatility in market prices.



## Project Overview

**Power BI as the Analytical Engine:** At the core of this project lies Microsoft Power BI, a powerful business intelligence tool.

**Interactive Dashboards for Clear Communication:** The insights gleaned from Power BI analysis will be translated into clear and concise visualizations through the creation of interactive dashboards.



## Proposed Solution:

**Challenge:** The Indian agricultural sector suffers from limited visibility into critical data, hindering informed decision-making and hindering its full potential.

**Solution:** This project proposes a comprehensive analysis of the Indian agricultural sector using Microsoft Power BI. Power BI is a powerful business intelligence tool that offers exceptional data consolidation, transformation, and visualization capabilities.

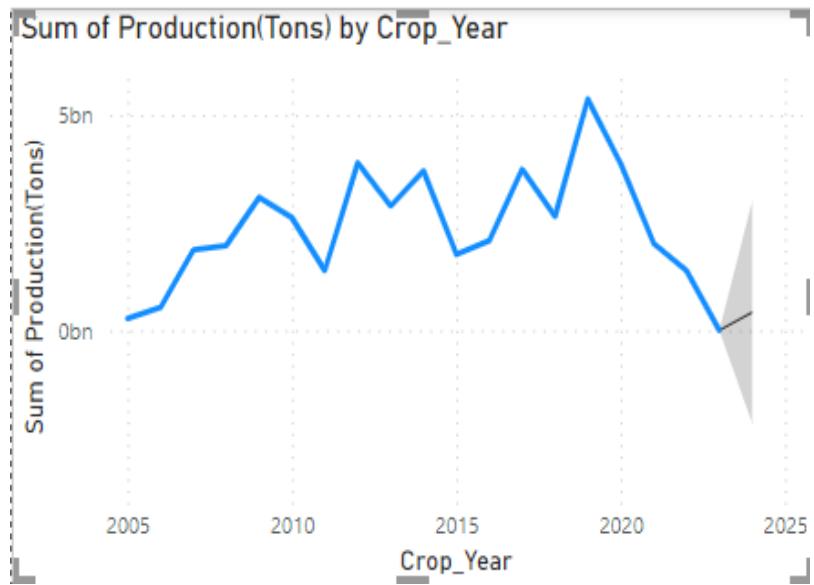
### Key Steps:

- Data Consolidation and Cleaning.
- Advanced Data Analysis.
- Interactive Dashboards.

## **Technology used:**

- Power BI

## Modelling & Result:



## Modelling & Result:

Total Production  
**45bn**

Current Year Avg.  
Production  
**611.81K**

## Modelling & Result:

Total Production	Avg..Production	State#	District#	Season#	Crops#	Years#
45bn	612K	33	646	6	122	19

**Sum of Production(Tons) by Crop**

Crop	Sum of Production(Tons)
Coconut	41798495594.08
Sugarcane	1659317669.2499995
Rice	485763941.46
Wheat	385556643.4600004
Potato	134722722.5899999
0bn	50bn

**Sum of Production(Tons) by State\_Name**

State_Name	Sum of Production(Tons)
Kerala	33.14bn
Tamil Nadu	4.05bn
Andhra Pradesh	3.60bn

**Sum of Production(Tons) by District\_Name**

District_Name	Sum of Production(Tons)
KOZHIKODE	6.01bn (42.74%)
THRISSUR	3.68bn (26.17%)
MALAPPURAM	4.38bn (31.1%)

**Sum of Production(Tons) by Crop\_Year**

**Sum of Production(Tons) by Season**

Season	Sum of Production(Tons)
Kharif	1.2bn (59.44%)
Rabi	0.6... (30...)
Winter	0.13bn (6.57%)
Summer	0.0... (0.00%)
Autumn	0.0... (0.00%)

**Sum of Production(Tons) by Crop\_Year**

Crop_Year	Sum of Production(Tons)
2019	5,37,58,24,846
2012	3,89,61,84,848
2020	3,08,67,05,447
2017	5,37,91,78,468
2014	3,70,98,13,072
2009	2,02,36,88...
2008	1,96,45,93...
2010	2,65,4...
2016	2,61,6...
2021	20...
2013	1.7...
2007	1,39...
2022	1...

**State\_Name**

- All

**Crop\_Year**

- All

**Crop**

- All

**Current Year Avg. Production**

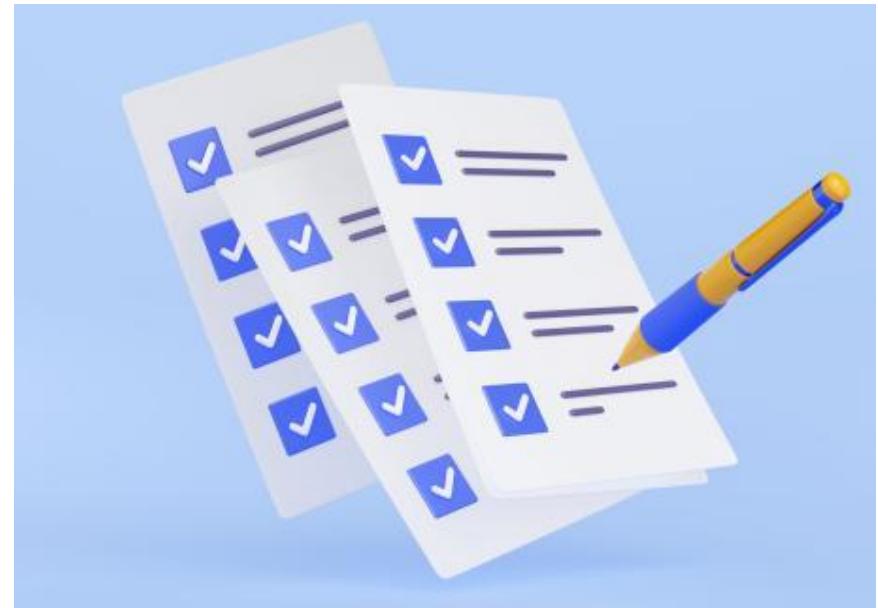
**611.81K**

**Avg. Production last Three Years**

**(Blank)**

## Conclusion:

This Power BI driven analysis provided a comprehensive view of Indian agriculture. We identified strengths and weaknesses. Interactive dashboards with clear visualizations offer actionable insights for policymakers and stakeholders. By understanding factors influencing productivity and profitability, we can work towards a more sustainable and prosperous agricultural future for India.





Thank you!

edunet  
foundation