## Overview

According to The World Bank, India is a global agricultural powerhouse. It is the world's largest producer of milk, pulses, and spices, and has the world's largest cattle herd (buffaloes), as well as the largest area under wheat, rice and cotton. It is the second largest producer of rice, wheat, cotton, sugarcane, farmed fish, sheep & goat meat, fruit, vegetables and tea.

While agriculture's share in India's economy has progressively declined to less than 15% due to the high growth rates of the industrial and services sectors, the sector's importance in India's economic and social fabric goes well beyond this indicator.

Descrive
Let us analyze the Indian
Agriculture crop production for
the data collected from 1997 to
2022. Let us ask interesting
questions on existing data, get
production and area statistics
and understand more on the
Indian Agriculture history for
crop production.

Source of Data
Data is open available
on Kaggle which is
made
available Ministry of
Agriculture and
Farmers Welfare of
India

Exploratory data analysis
Let us get into the details with
exploration of data to answer
various questions. Let us place
those general questions we
want to get an answer from the
data. Let us get some basic
details like crops which are their
in our records, states and
districts we have in our records,
etc.

Dealing with various units of production
We can observe a column named Production units which is a mesurement of crop production. We need to standardize the units to one specific unit to do proper measurement. Let us get the units we have in our dataset

India's Agricultural Crop Production Analysis(1997-2021)

Which crop is the most common choice for agriculture in India? In [11]:
agri\_df["Crop"].value\_counts().head()
Out[11]:
Rice 21175 Maize 20003
Moong(Green Gram) 14722 Urad
14241 Sesamum 12788 Name: Crop,
dtype: int64
Having found in more than 21 K
records, Rice seems to be the most
popular choice for farmers in India,
followed by Mazie and Moong.

This report delves into the captivating realm of India's agricultural cultivation, providing a comprehensive visual exploration of key aspects and trends in the agricultural sector.

The agricultural growth rate has fallen to **3 per cent** in 2021-22 from 3.3 per cent in 2020-21, according to the Economic Survey Report 2022-23 tabled in the Parliament on January 31, 2023.

India's foodgrains production touched a record **315.7 million tonnes** in 2021-22 despite climate change challenges says the Economic Survey 2022-23 tabled in the Parliament by the Union Minister of Finance and Corporate Affairs Smt.

Through the visual representations, readers can gain valuable insights into crop production, seasonal variations, regional distribution, and overall production trends.

These visualizations enable intuitive analysis, allowing stakeholders to uncover patterns, identify areas of growth or concern, and make data-driven decisions.