iNeuron

Project Title	Agriculture Data Analysis - India
Technologies	Business Intelligence
Domain	Business Analytics
Project Difficulties level	Advanced

Problem Statement:

In 2018, fertilizer consumption for India was 175 kilograms per hectare. Fertilizer consumption of India increased from 12.4 kilograms per hectare in 1969 to 175 kilograms per hectare in 2018 growing at an average annual rate of 5.96%.

In 2019, agriculture value added per worker for India was 1,993 US dollars. Between 2000 and 2019, agriculture value added per worker of India grew substantially from 966 to 1,993 US dollars rising at an increasing annual rate that reached a maximum of 11.09% in 2011 and then decreased to 4.52% in 2019

In 2018, livestock production index for India was 116.8 index. Between 1969 and 2018, livestock production index of India grew substantially from 18.3 to 116.8 index rising at an increasing annual rate that reached a maximum of 6.27% in 2007 and then decreased to 5.51% in 2018.

Livestock production index includes meat and milk from all sources, dairy products such as cheese, and eggs, honey, raw silk, wool, and hides and skins. 2004-2006 = 100.

In 2018, food production index for India was 111.8 index. Between 1969 and 2018, food production index of India grew substantially from 26.4 to 111.8 index rising at an increasing annual rate that reached a maximum of 12.38% in 1983 and then decreased to 3.71% in 2018.

Food production index covers food crops that are considered edible and that contain nutrients. Coffee and tea are excluded because, although edible, they have no nutritive value. 2004-2006 = 100.

Make views and dashborads first.

Make a story out of it.

Dataset:

Datasets are available in the given links. You can download as per your convenient.

Fertilizer consumption per unit of arable land

India Fertilizer consumption, 1960-2020 - knoema.com

Agriculture value added per worker in constant prices of 2010

India Agriculture value added per worker, 1960-2020 - knoema.com

Fertilizer consumption per unit of arable land

India Livestock production index, 1960-2020 - knoema.com

Food production index

India Food production index, 1960-2020 - knoema.com

Approaches:

Tableau, Power BI or you can use any tools and techniques as per your convenience. We would appreciate your valid imagination in finding solutions

Project Evaluation metrics:

Code: As per the requirements

- You are supposed to write a code in a modular fashion
- Safe: It can be used without causing harm.
- Testable: It can be tested at the code level.
- Maintainable: It can be maintained, even as your codebase grows.
- Portable: It works the same in every environment (operating system)
- You have to maintain your code on GitHub.
- You have to keep your GitHub repo public so that anyone can check your code.
- Proper readme file you have to maintain for any project development.
- You should include basic workflow and execution of the entire project in the readme file on GitHub
- Follow the coding standards: https://www.python.org/dev/peps/pep-0008/

Database:

- You are supposed to use a given dataset for this project.

Agriculture (knoema.com)

Submission requirements:

High-level Document:

You have to create a high-level document design for your project. You can reference the HLD form below the link.

Sample link:

HLD Document Link

Low-level document:

You have to create a Low-level document design for your project; you can refer to the LLD from the below link.

Sample link

LLD Document Link

Architecture: You have to create an Architecture document design for your project; you can refer to the Architecture from the below link.

Sample link

Architecture sample link

Wireframe: You have to create a Wireframe document design for your project; refer to the Wireframe from the below link.

Demo link

Wireframe Document Link

Project work:

You will have to share the Tableau Public Link of your work

You have to submit your code GitHub repo in your dashboard when the final submission of your project.

Demo link

Project code sample link :

Click here to enter text.

Detail project report:

You have to create a detailed project report and submit that document as per the given sample.

Demo link

DPR sample link

Project demo video:

You have to record a project demo video for at least 5 Minutes and submit that link as per the given demo.

Demo link

Project sample link :

The project LinkedIn a post:

You have to post your project detail on LinkedIn and submit that post link in your dashboard in your respective field.

Demo link

Linkedin post sample link :