**Project: Milk Production Forecasting**

**Project description:**

Milk is one of the most important and widely consumed agricultural products in the world. It is not only a significant source of nutrition but also plays a crucial role in the global economy. Accurate forecasting of milk production is therefore essential for dairy farmers, milk processing companies, and policymakers to make informed decisions.

By using advanced statistical and machine learning techniques, forecasting milk production can help to optimize production processes, reduce wastage, and ensure a stable supply of milk in the market.

In this project, you must explore the different methods used for forecasting milk production and the importance of accurate forecasting in the dairy industry.

DATASET

<https://docs.google.com/spreadsheets/d/1mt3v0U2SotxlXEZPKOSGt1ksWsg3GOay0tkwIKMxyWI/edit?usp=sharing>

**Evaluation Scheme:**

**Total marks:** **100**

**Deliverables [Total marks - 95]:**

1. Load the data into python 🡪 30 marks.
2. EDA on the timeseries data 🡪 20 marks.
3. Check for stationarity and apply suitable methods if it’s not stationary🡪 20 marks.
4. Build forecasting timeseries models 🡪 20 marks.
5. Predict the milk production in pounds for a specific period with the model trained 🡪 5 marks.

**Project Submission [Total marks - 5]:**

1. Once the project has been created, upload all the files on GitHub & commit (save) all the changes, make sure you add a readme file containing detailed description of your thoughts during the project creation. **[3 marks]**
2. Once done, kindly copy the GitHub link of your project & submit the same using your dashboard. **[2 mark]**