# Data Mining Assignment 1 [Date: 25 Jan21] Marks-15

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## Transform crop production dataset into following format

| State Name | District_ Name | Crop_Year1 | | | | Crop_Year2 | | | | …. |
|---|---|---|---|---|---|---|---|---|---|---|
| S | A | | Crop | Area | Production | | Crop | Area | Production | |
| | | Kahrif | | | | Kahrif | | | | |
| | | Rabbi | | | | Rabbi | | | | |
| | | Wholyear | | | | Wholye ar | | | | |

- Slice the transform dataset in two different dataframe
    - Df1= data[:50%]
    - Df2=data[51%:]
- Find the count of NaN values attribute(feature) wise in both dataframes
- Use 'ffill' to replace NaN values in Df1
- Use 'bfill' to replace NaN values in Df2
- Find the mean value of every attribute and replace with NaN in df1

- **Find the median value of every attribute and replace with NaN in df2**
- **Find correlation in df1, df2 and visualize it**
- **Convert df1 into Min Max normalized format.**
- **Convert df2 into standardization format.**