**Project: Manufacturing**

Part backorders is a common supply chain problem. Working to identify parts at risk of backorder before the event occurs so the business has time to react. Data file contains the historical data for the 8 weeks prior to the week we are trying to predict. The data was taken as weekly snapshots at the start of each week.

went\_on\_backorder - Product actually went on backorder or not. This is the target value.

We have given you two datasets , product\_train.csv and product\_test.csv . You need to use data product\_train to build predictive model for response variable ‘went\_on\_backorder’. product\_test data contains all other factors except ‘went\_on\_backorder’, you need to predict that using the model that you developed and submit your predicted values in a csv files.

You have to submit the response as hard classes (Yes or No)

Evaluation Criterion : KS score on test data.

Please read through the points given below before you begin :

1.Score will be calculated as score = 1 - (KS/0.0986) . For passing your score should be greater than 0.5

2. You are NOT required to submit R script. However in some cases , we might ask you to send your script separately in order to verify that your submissions is a result of models that you built .

3. Your predictions should not contain any NA values.

4. You are are free to use any predictive modelling technique

================== =========All the Best ==========================