**Project: Identifying items with the highest chances of shortage prior its occurrence for better inventory management**

**Phase 1: Literature Survey and Data Sources:**

Description: This is a project wherein you would predict the most likely items to have a shortage prior to it’s occurrence for a better inventory management system.

Datasets:-

The dataset for the competition can be found at:-

[backorder\_prediction/dataset.rar at master · rodrigosantis1/backorder\_prediction · GitHub](https://github.com/rodrigosantis1/backorder_prediction/blob/master/dataset.rar)

Reading Materials:-

1. [(PDF) Predicting Material Backorders in Inventory Management using Machine Learning (researchgate.net)](https://www.researchgate.net/publication/319553365_Predicting_Material_Backorders_in_Inventory_Management_using_Machine_Learning)
2. <https://www.bigcommerce.com/blog/inventory-management/#common-inventory-management-questions>
3. <https://towardsdatascience.com/what-metrics-should-we-use-on-imbalanced-data-set-precision-recall-roc-e2e79252aeba>
4. <https://machinelearningmastery.com/undersampling-algorithms-for-imbalanced-classification/>
5. Google Search Keywords – “Inventory Planning”,” Backorder Prediction”

**Student Questions Phase-1:**

*Please post your questions to be discussed in the video call by the mentor. For other questions, please email us with the project title in the subject so that we can forward it to the appropriate mentor.*