**Machine Learning Use Cases**

***Inventory management***

I found this link which describes many use cases which we can develop for Inventory management.

***Following are the current main problems with inventory management:***

1. Huge amount of data
2. Data from various sources like sales details, order details, product details, complaints …etc
3. Frequent/Daily updates are common in this datasets
4. Daily, weekly , monthly and yearly reports are required
5. The analysis might change according to the region/country
6. Database systems are inefficient of analyzing this big datasets.

***Following link describes many use cases which we can develop by using machine learning models:***

[**https://pluto7.com/use-cases/**](https://pluto7.com/use-cases/)

[**https://pluto7.com/use-cases/top-10-use-cases-for-machine-learning-in-supply-chain/**](https://pluto7.com/use-cases/top-10-use-cases-for-machine-learning-in-supply-chain/)

***Following are the steps required for developing the use case:***

1. Choose a use case from the above link. We can find more links also.
2. Defining the problem statement. (Classification or Regression)
3. Gather respective data. Data should be publically available.
4. Data Cleaning and Preprocessing
5. Data Visualization which will provide important data insights.
6. Depending on the problem statement apply the model and get the final result.

***I think the following use case fits our discussion which we had at PYC:***

**Machine Learning in Supply Forecasting - based on supplier commitments and lead time - Bills of material and PO data can be structured and accurate predictions can be made in supply forecast.**