**Predictive Package for small scale and medium scale Enterprises**

**Objective**:

A docker image for the small and medium scale industries to predict the sales on each day and predictive the item purchases and recommendations for the owner also for the customer.

**Map of the flow:**

Docker Image

Store Predictions

Data Visualization

**Pre-Requisites:**

Data from the client is the only prerequisite for the container.

**Flow of the Process:**

* The data gathering part is done outside the docker container irrespective to the process, all the data is gathered from either from single or multiple data sources and ELT process is done.
* The gathered data is sent into docker using the volumes.
* The configuration file specified compulsory fields and not important fields
* The configuration file specifies the Nan type (e.g. blank ,0, ..et cetera)
* All required fields are specified in the configuration file.
* The process runs every month at the client location.

Notes:

* The ELT process is done on the pyspark.
* Grid Search is used in ML model for better precision and accuracy.
* Predictive sales and purchases
* predictive item purchases and recommendations
* day of the week recommendation for the owner
* recommendation for the items for the customers