**Guess the product**

A manufacturing company is facing challenge to classify raw materials(products) received from vendors. To help them in classifying the raw materials, build a machine learning model that could predict the category based on certain input features.

Below is a description of variables in the dataset.

|  |  |
| --- | --- |
| **Inv\_id** | I**nvoice ID,** a number generated after every successful checkout by a buyer |
| **Vendor\_Code** | **Vendor code** is the Vendor name that is used during the creation of the Product Order |
| **GL\_Code** | **General ledger** (**GL**) **code** is a number used to record business transactions in the general ledger |
| **Inv\_Amt** | **Invoice amount** is the billed amount. The amount stated in the bill is also called the invoice amount |
| **Item\_Description** | Brief description of the item. |
| **Product\_Category** | Class to which the product belongs. |

**Submission Requirements**

1. The submission.csv should be of exact format as of sample\_submission.csv.
2. You have to submit the corresponding Python/R notebook which should contain the following:
   1. Exploratory Data Analysis of variables
   2. ML model
   3. Model Evaluation
   4. Code to generate submission.csv
3. Your analysis in notebook should be presentable to senior stakeholders.