**RTM/OSS EDA Functions:**

**Output location: ‘Output/EDA’**

**Categorical variable distribution over time: (‘categorical\_dist’ function)**

* Gives period level plots (Monthly, weekly, or quarterly as per user input) of SKU/PPG item as output (PNG file).
* Summary of SKU/PPG items also given as output (CSV file) like new/extra items and/or missing items in the current period compared to previous period level.

**Chronic missing and total missing dates from the data: (‘chron’ function)**

* Outputs a dataframe with the number of instances of consecutive missing days for the given granularity.
* Also gives the total number of missing days for the given granularity.
* User inputs the list of required consecutive missing days e.g. 3,5,8 and functions returns instances for each item as well as total count of missing days.

**Missing values (-ve,zero) analysis: (‘missing\_analysis’ function)**

* To summarize missing values, negative, or zero values for the user input granularity, and a variable.
* For instance, this function can be used to get missing ‘Sales’ value percentage for all the Corporate Segments.
* The user can opt to enter year and month column to get monthly summary. If not, then by default the function will give top level summary of missing percentage values.
* Mars calendar must be used to input year and period column that has a uniform 4 weeks/28 days period.