Finding Nemo - Active Work

1. Business Case: Attribute Normalization for flavor, scent, and color

Normalization means identifying a limited list of attributes that we want to use for matching each department.

Normalized - condensed into specific groups of attributes that are most prevalent across the category.

1. Challenges:

The attribute value and attribute code from PIM table would be used to determine the predicted attribute 'for GTIN_NO. Below are challenges:

- The GTIN_NO might contain multiple predicted attribute values
- There is similarity among attributes.
- The predicted attribute values do not show the relevance.

1. Assumptions:

- Used predicted attribute values/completeness to determine the relevance of attribute values which would be used as normalized attribute.
- The attribute normalization is product categories related.
- The assumed target areas within customer facing taxonomy for Flavor are Beverage, Pantry and Candy
- o The assumed target areas within customer facing taxonomy for Scent are Beauty, Personal Care and Cleaning & Household.
- The assumed target areas within customer facing taxonomy for Color are Beauty, Kitchen & Dining and Home Décor

1. Methodology:

Match process

Utilized ML algorithm rapidfuzz.process.extract to match the attribute value and attribute code from PIM table 'CURIDQ.PIMMART. DIM_ATB_INF_LKP' with the DPT_DSC from PIM table 'CURIDQ.PIMMART.ITEM_VIEW' to create the predicted attribute 'attrib_field'.

Normalization

- Created 'PERCENT_CUMULATIVE_COUNT' by cumulating percent prevalence of single attributes from 'attrib_field' and
 ranked from top. (Excluded attribute value = 'OTHER').
- Picked up top n from the 'PERCENT_CUMULATIVE_COUNT' to create "normalized_list".
- Consulted with SME to adjust the "normalized_list" and add 'OTHER', 'MULTI xxxx'].
- Utilized "normalized_list" to against value in 'attrib_field ' to get the 'NORMALIZED_xxxx' .
- If value in 'attrib_field ' was also in "normalized_list", assigned the value in the "normalized_list" to create 'NORMALIZED_xxxx'.
- The xxxx might be flavor, or scent, or color.