

INTRODUCTION – Jaipur Living

- ♦ Founded in 1978 with 9 artisans
- Offers artisan rugs, pillows, poufs, & throws
- Currently employs 40000 artisans in 700 villages
- Customers: Stores, Sales Agents, Designers, e-commerce







BUSINESS REQUIREMENT

Business Requirement

To build a tool to predict a new product's success and target the customers accordingly



Problem breakdown

Understand how a new product compares to historical products

Customer Segmentation

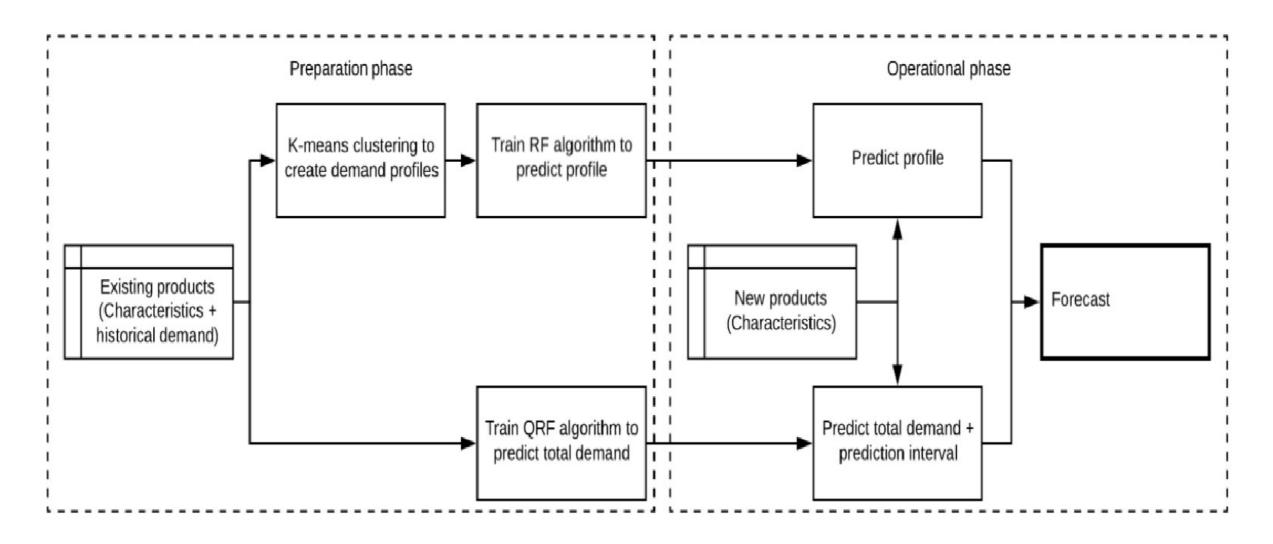
Understand how JL products would compare against trends found online

DATA SOURCING

- ❖ Product Dataset 2 Years
- Customer Dataset 1.1M rows
- Image Dataset Rugs



Proposed Solution - How a new product compares to historical products



Proposed Solution - Customer Segmentation

- The process of grouping customers into sections of individuals who share common characteristics
- Customer Segmentation using RFM analysis Calculate R, F and M parameters
- ✓ Recency (R): Who have purchased recently? Number of days since last purchase (least recency)
- ✓ Frequency (F): Who has purchased frequently? It means the total number of purchases. (high frequency)
- ✓ Monetary Value(M): Who have high purchase amount? It means the total money customer spent (high monetary value)
- Apply k-means clustering algorithm on these parameters to group similar customers.
- ❖ Apply classification algorithms such as Logistic Regression and Decision Trees to predict future customer behavior
- Finally apply recommendation algorithms such as collaborative or content based filtering and Association Rules (Optional)

Proposed Solution - Understand how new products would compare against trends found online

- Carpet color and Pattern Detection
- Color Detection K-means , Adaboost
- Pattern Detection CNN

