SEPHORA PRICING PREDICTION USING REGRESSION

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1. Project Overview

Sephora is a leading international cosmetic company that features many brands and produces their own collection. You can have access to their products through their online or offline stores. When Launching a new collection, Sephora faces the question of pricing and whether the product will be positively perceived or not.

Questions:

- Can we predict the rating score of a product?
- How could we predict the price of a newly launched product? Is there a correlation between the rating score and the price?
- Given the ratings of products, which products should we launch next?

2. Data Description

We will be utilizing the Sephora.sa website to scrape relevant data to our analysis:

- 1. Item name
- 2. Item Brand
- 3. Item Category
- 4. Item Price
- 5. Item Value Price
- 6. Item Rating
- 7. Item Ingredients
- 8. Item number of reviews
- 9. Item Wish List
- 10. Item Weight

Using these features we will try to predict the target which is the price of a new product.

3. Tools

To achieve our goal, we will analyze and explore the data in Python by using Jupyter, and we will use different packages such as: BeautifulSoup, Selenium, Pandas, Matplotlib, Seaborn, Numpy, Sqlite3, Plotly, Scikit-learn, and Statsmodels

4. MVP Goal

To develop a tool for Sephora that would help in determining their pricing based on ratings of released products from the same category.