

## Analysis Objectives





- Improve overall Sales
- Build a robust loyalty program with a high retention rate
- Proactively address customers' concerns

# Objectives' Breakdown



#### **Loyalty Points**

- Age
- Education
- Gender
- Annual Income
- Spending trends



**Customer Segments** 





Reviews



Increase Sales

+

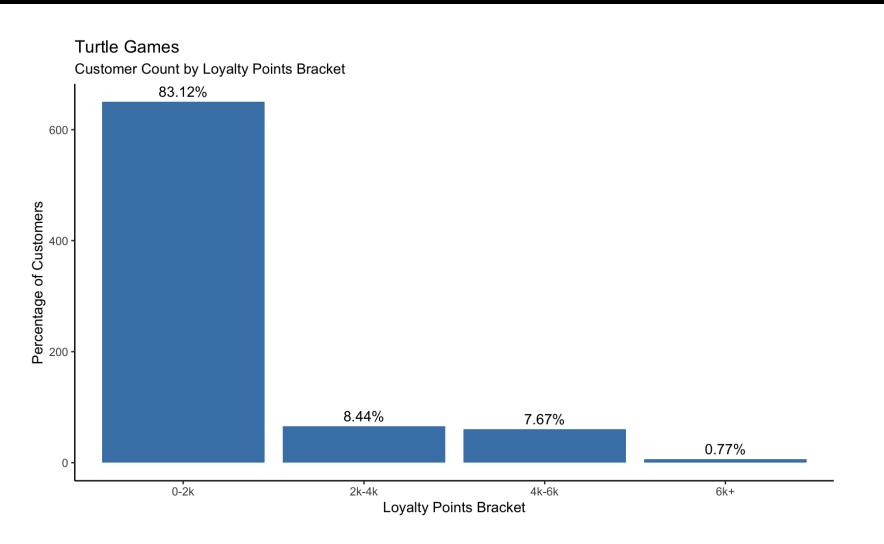
Robust Loyalty Program

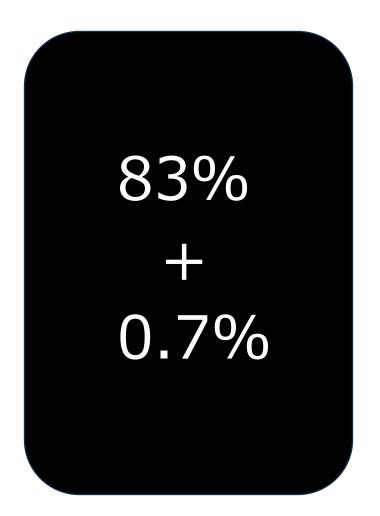
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Address Customer Concerns

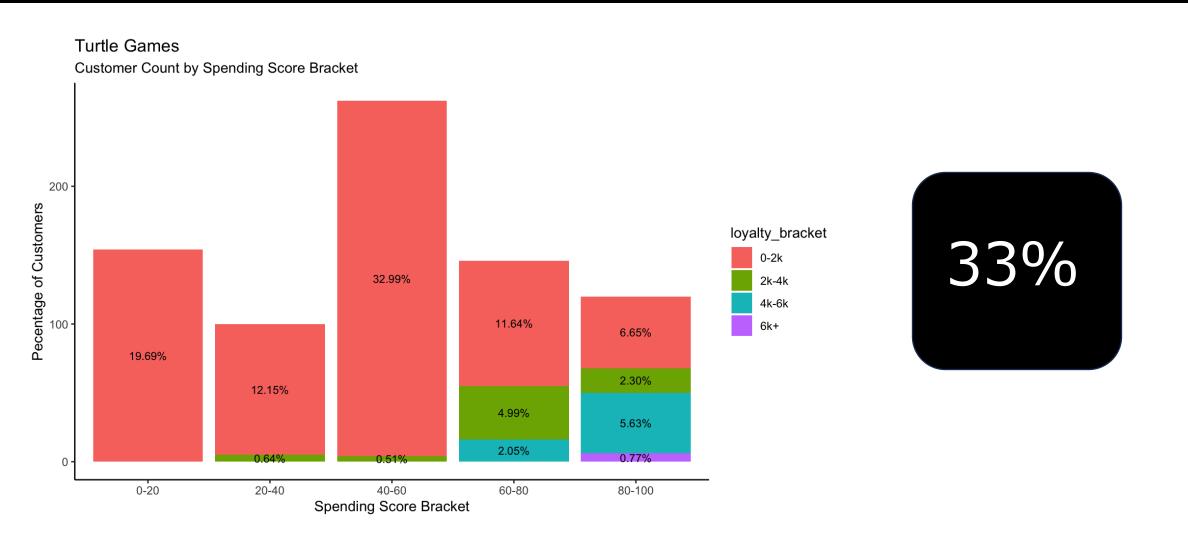


# Low Loyalty Program Engagement

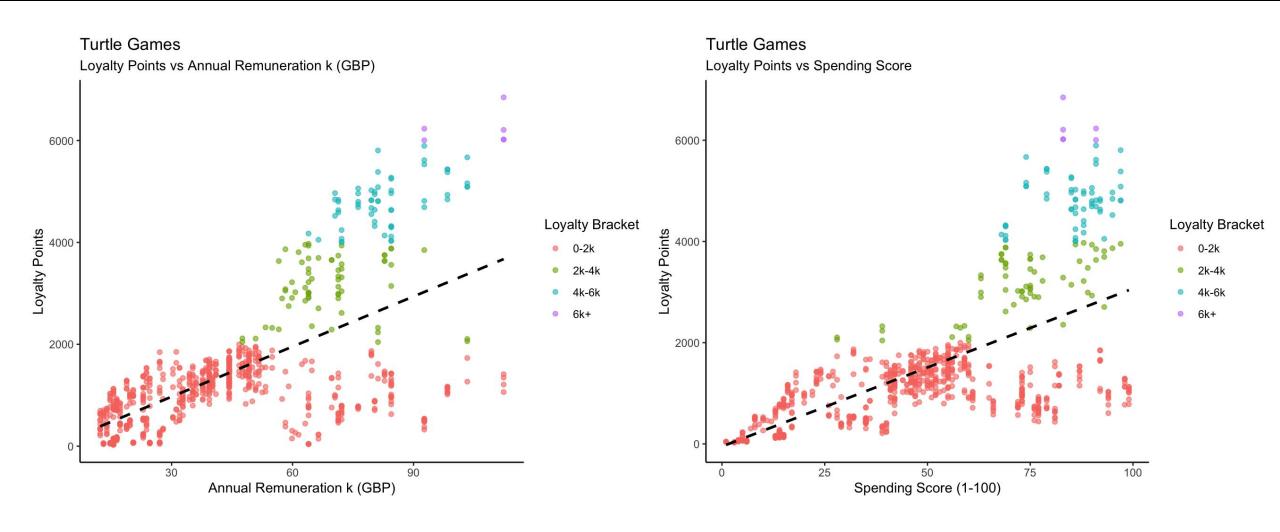




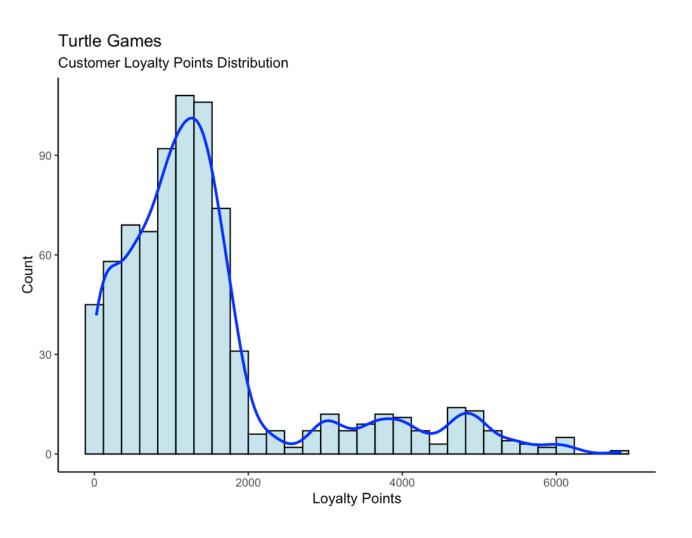
#### Majority of Customers Show Moderate Spending Patterns



#### **Positive Linear Relation Detected**

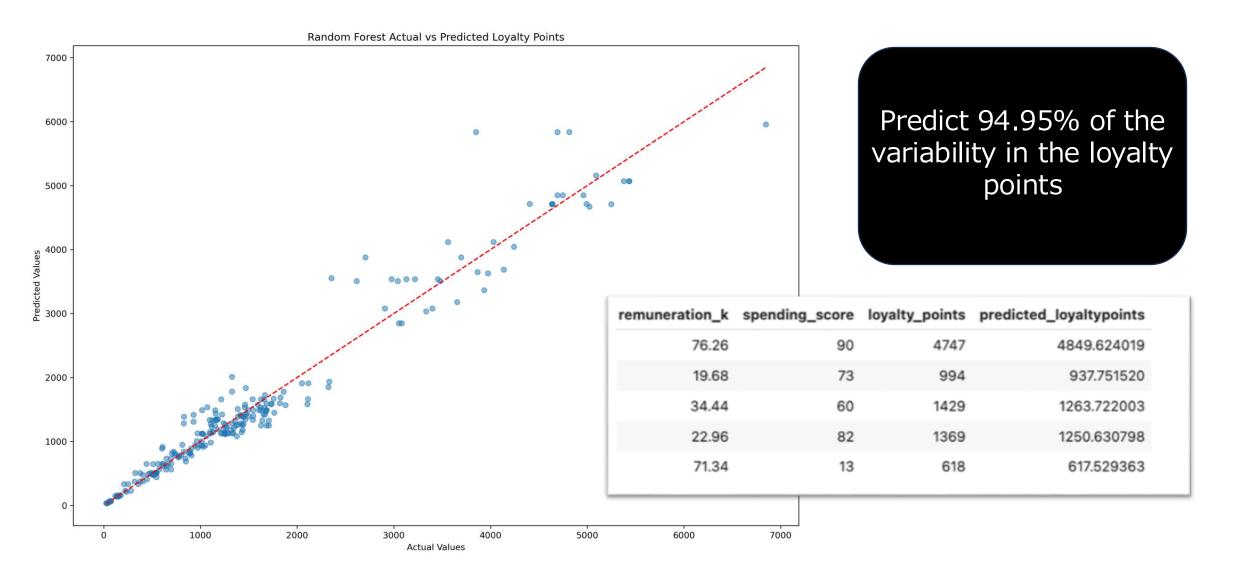


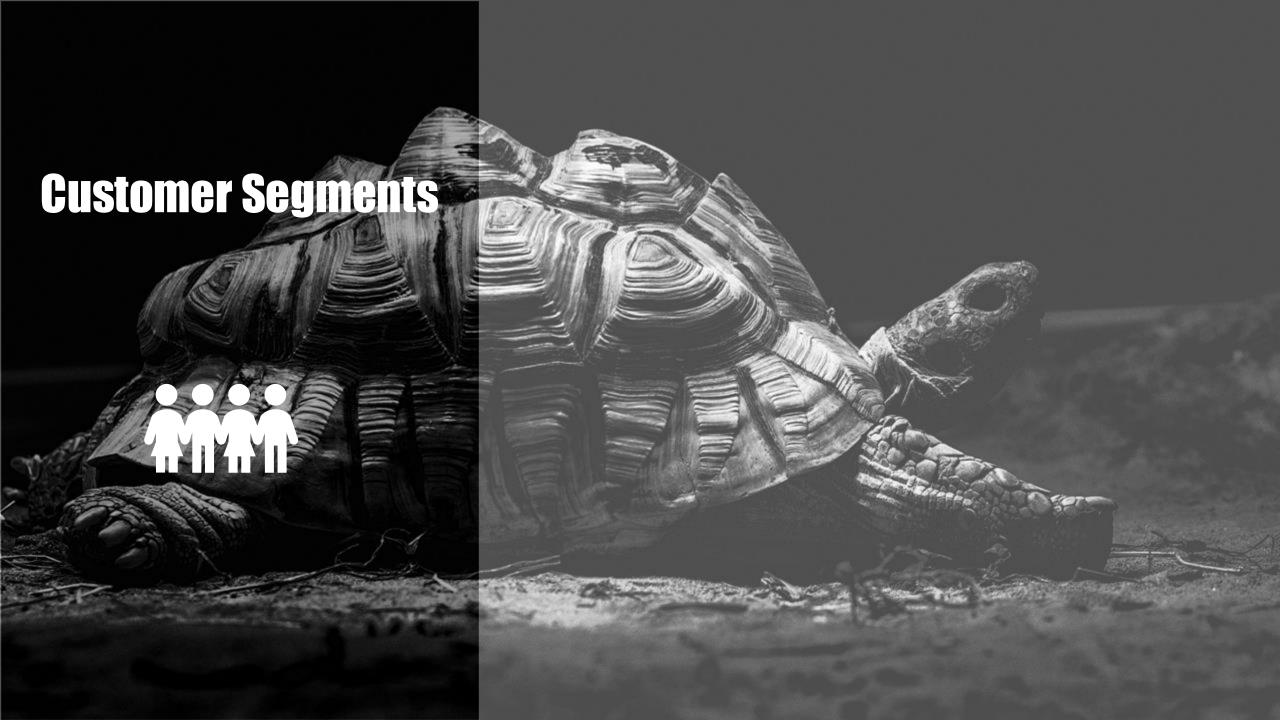
## **Loyalty Points Distribution**



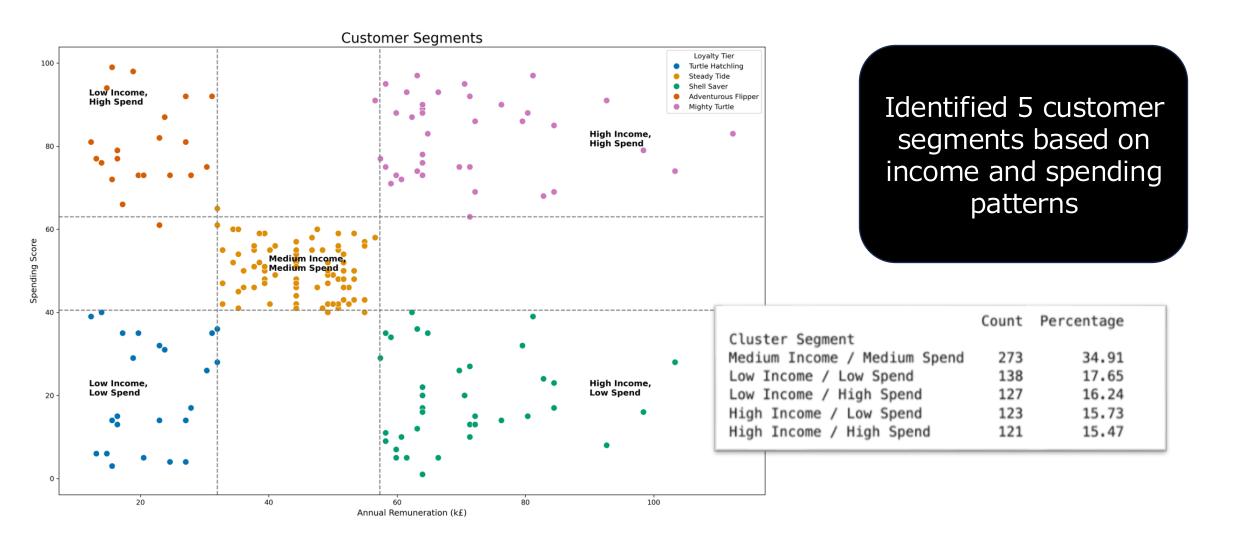
Loyalty points are not normally distributed with a right skew

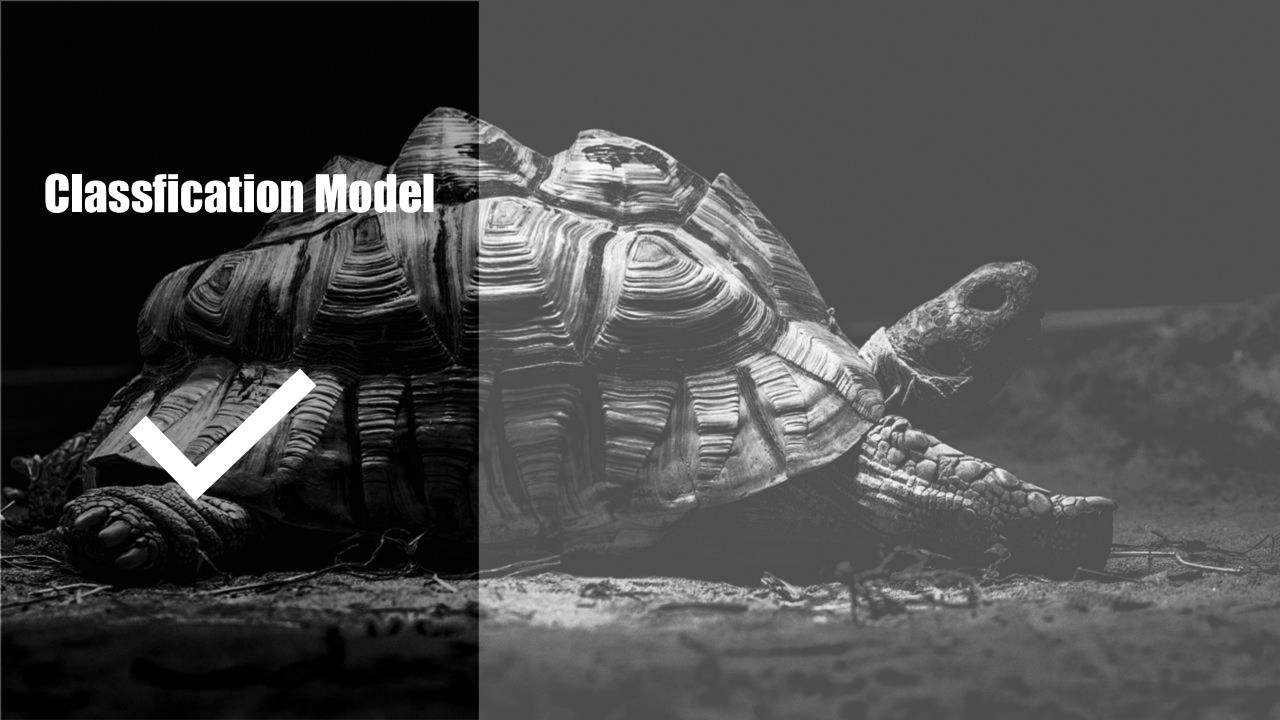
## **Predict Loyalty Points**





### **Identify Customer Segments**





#### Classify New Customers

Identify high-spend customers with a precision of > 87%



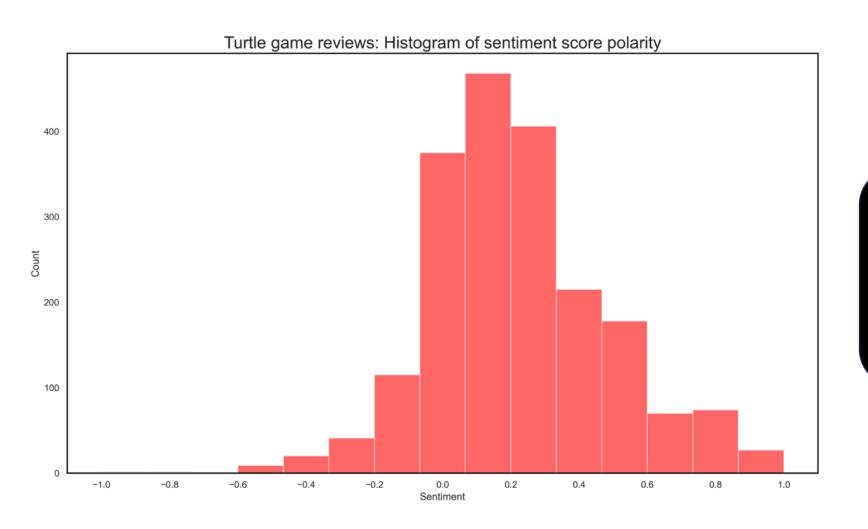


## Mix of Facts & Opinions



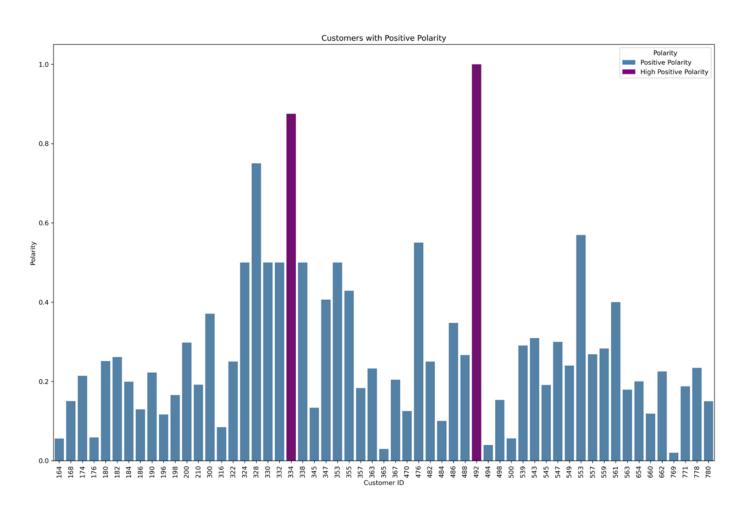
WordCloud confirms the noticed pattern, highlighting words like game, tile, play, card along with sentiment strong words like fun love great..etc

## Overall Moderately Positive Sentiment



Reviews don't show strong opinions or emotions
Mostly a mix of facts and opinions

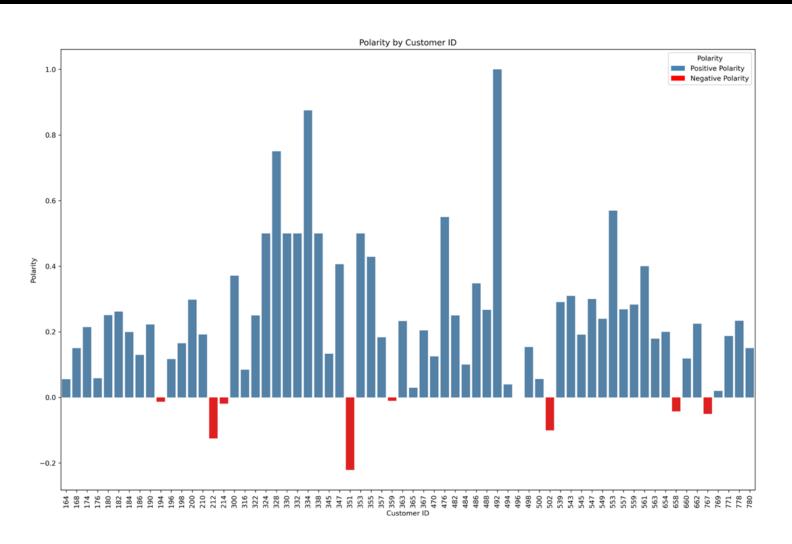
#### Leverage Customers as Brand Ambassadors



**High Loyalty Customers** 

>0.8 overall Sentiment Score

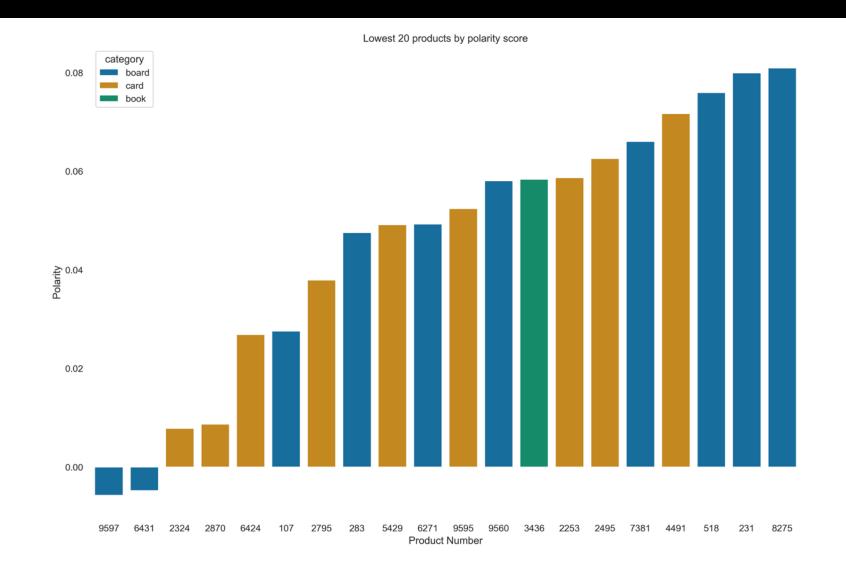
#### **Proactively Address Negative Sentiment**



8 High Loyalty Customers identified as potential churn risk

# **Assess Products with Negative Sentiment**

2 Products with moderate negative sentiment





#### Recommendations & Next Steps

- Build a tiered loyalty program that rewards high-return customers (1)
- Provide loyalty-based discounts for the medium income / medium spend (~34% of the customers) to encourage retention and higher sales (2)
- Proactively address customers with negative reviews to avoid losing them (3)
- Leverage High-Loyalty Customers as brand ambassadors.

#### **Future Steps**

- Check the sales and loyalty program performance quarterly
- Recheck the Customer Segments a year after the analysis to account for changes

#### **Works Cited**

- (1) helika.io. [Online] Helika. <a href="https://www.helika.io/top-3-best-customer-loyalty-programs-for-games/">https://www.helika.io/top-3-best-customer-loyalty-programs-for-games/</a>
- (2) Perkins, Carina. Emarketer. [Online] June 2023. https://www.emarketer.com/content/uk-loyalty-programs-2023.
- (3) Zinrelo. zinrelo.com. [Online] Zinrelo, July 2023. https://www.zinrelo.com/blog/customer-loyalty-program-metrics/.
- (4) Scikit Learn [Online] 2025. <a href="https://scikit-learn.org/stable/modules/generated/sklearn.model\_selection.StratifiedShuffleSplit.html">https://scikit-learn.org/stable/modules/generated/sklearn.model\_selection.StratifiedShuffleSplit.html</a>.

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#### Cover Image:

https://unsplash.com/photos/grayscale-photography-of-turtle-CQqZ2BWeoAU?utm\_content=creditShareLink&utm\_medium=referral&utm\_source=unsplash