

Data Appendix

Original Dataset

The unit of observation in this dataset is Amazon reviewers. Each row represents information about the reviewer as well as information about their review of a product.

Reviewer Name

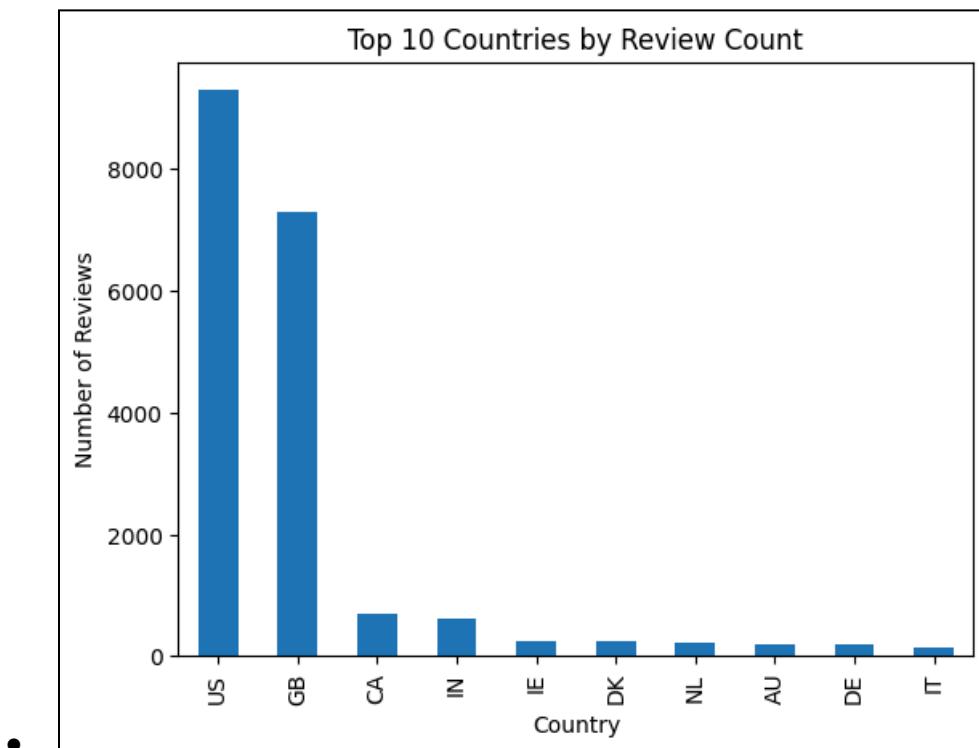
- The name or pseudonym of the reviewer
- No other variables were used to construct this variable
- 13914(0)

Profile Link

- A text link to the reviewer's Amazon profile for additional insights
- No other variables were used to construct this variable
- 13914(51)

Country

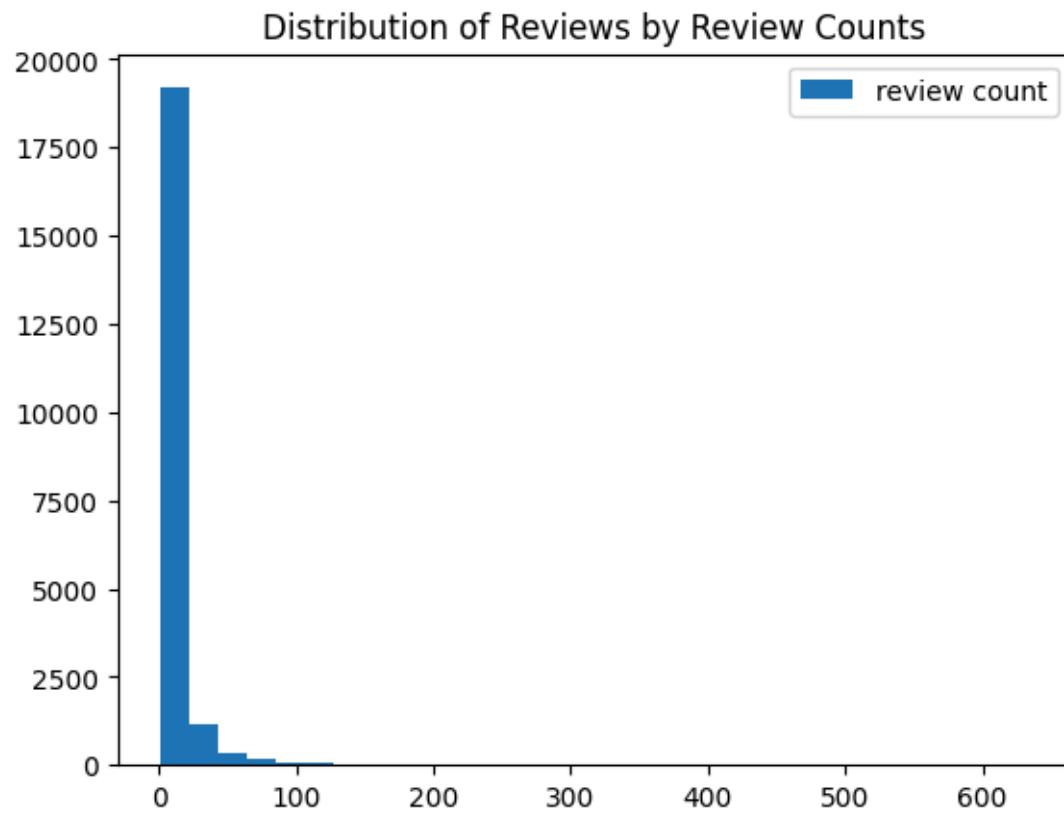
- The country of the reviewer's location
- No other variables were used to construct this variable
- 13914(160)



Review Count

Review Count

- Number of reviews by the same user, written as solely a number
- This variable was derived from the original “review count” variable in the dataset, with the text removed
- 13914(159)
- Summary statistics:
 - Mean: 9.33
 - Standard deviation: 19.44
 - Minimum: 1
 - 25 percentile: 1
 - 50 percentile: 3
 - 75 percentile: 9
 - Max: 633



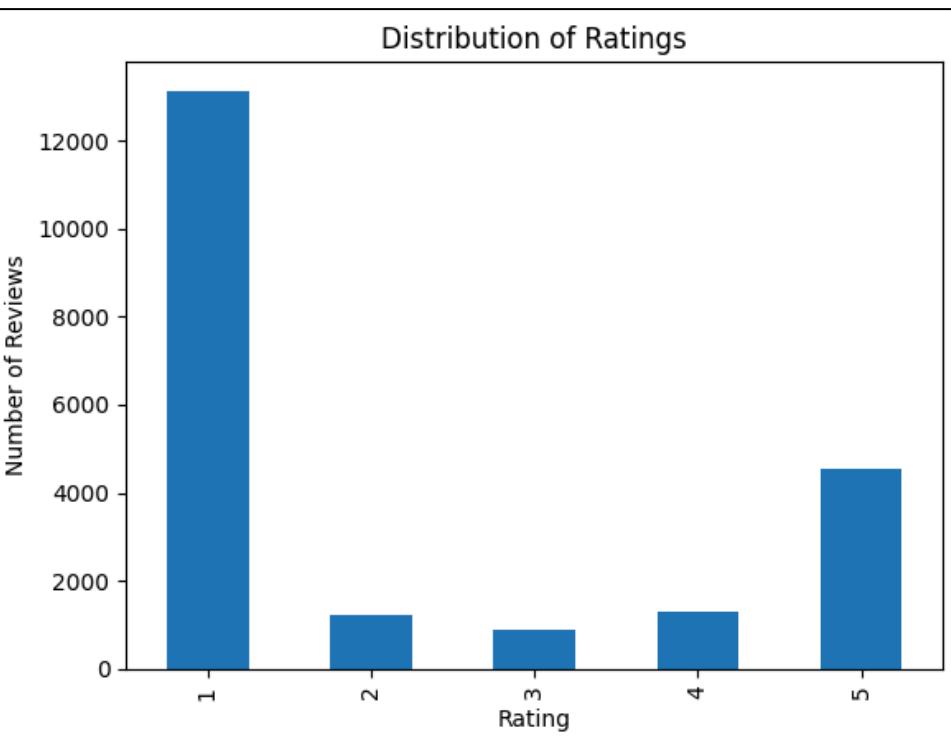
Review Date

- Date (year/month/day) and time of when the review was posted
- No other variables were used to construct this variable
- 13914(159)

Rating

- A numerical measure of satisfaction with the product or service, on a scale of 1 to 5
- No other variables were used to construct this variable

- 13914(159)
- Summary statistics:
 - Mean: 1.6
 - Standard deviation: 1.29
 - Minimum: 1
 - 25 percentile: 1
 - 50 percentile: 1
 - 75 percentile: 1
 - Max: 5



Review Title

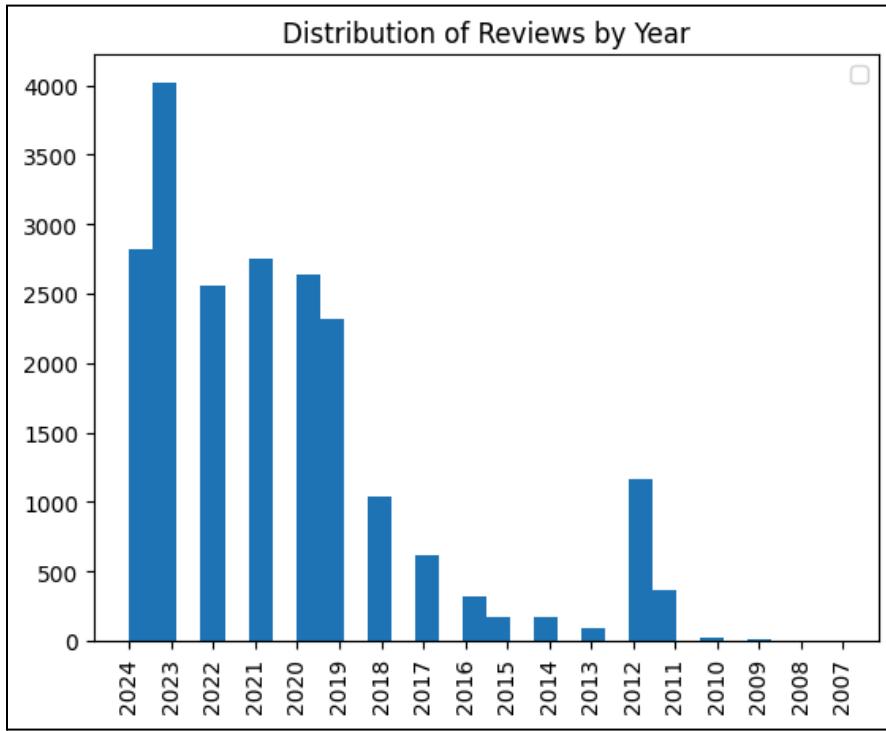
- Text that aims to summarize the review sentiment
- No other variables were used to construct this variable
- 13914(159)

Review Text

- Detailed customer feedback of the product or service
- No other variables were used to construct this variable
- 13914(159)

Date of Experience

- Date of when the product or service was experienced, as text (i.e. "September 14th, 2024")
- No other variables were used to construct this variable
- 13914(267)



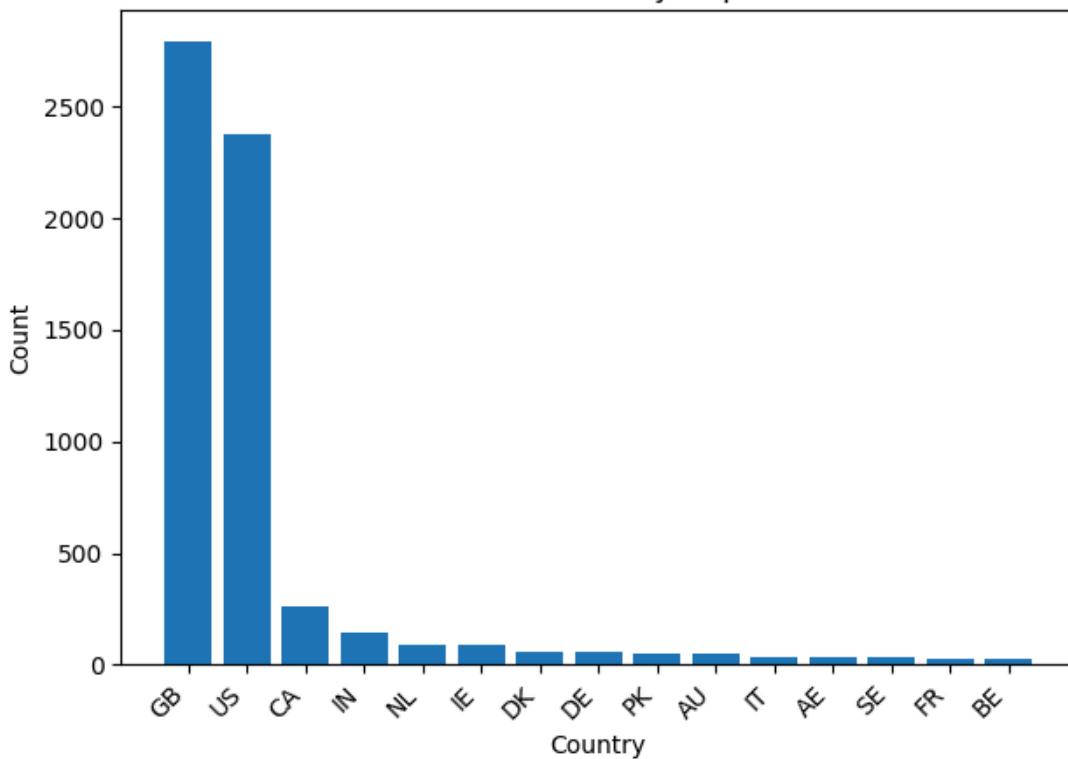
Cleaned Dataset

The unit of observation in this dataset is Amazon reviewers. Each row represents information about the reviewer as well as information about their review of a product.

Country

- The country of the reviewer's location
- No other variables were used in the creation of this variable, but this variable was filtered to only include countries in reviews from 2023 and 2024
- 6574(0)

Bar Chart: Country (Top 15)



Review Title

- Text that aims to summarize the review sentiment
- No other variables were used to construct this variable, but this variable was filtered to only include reviews from 2023 and 2024
- 6574(0)

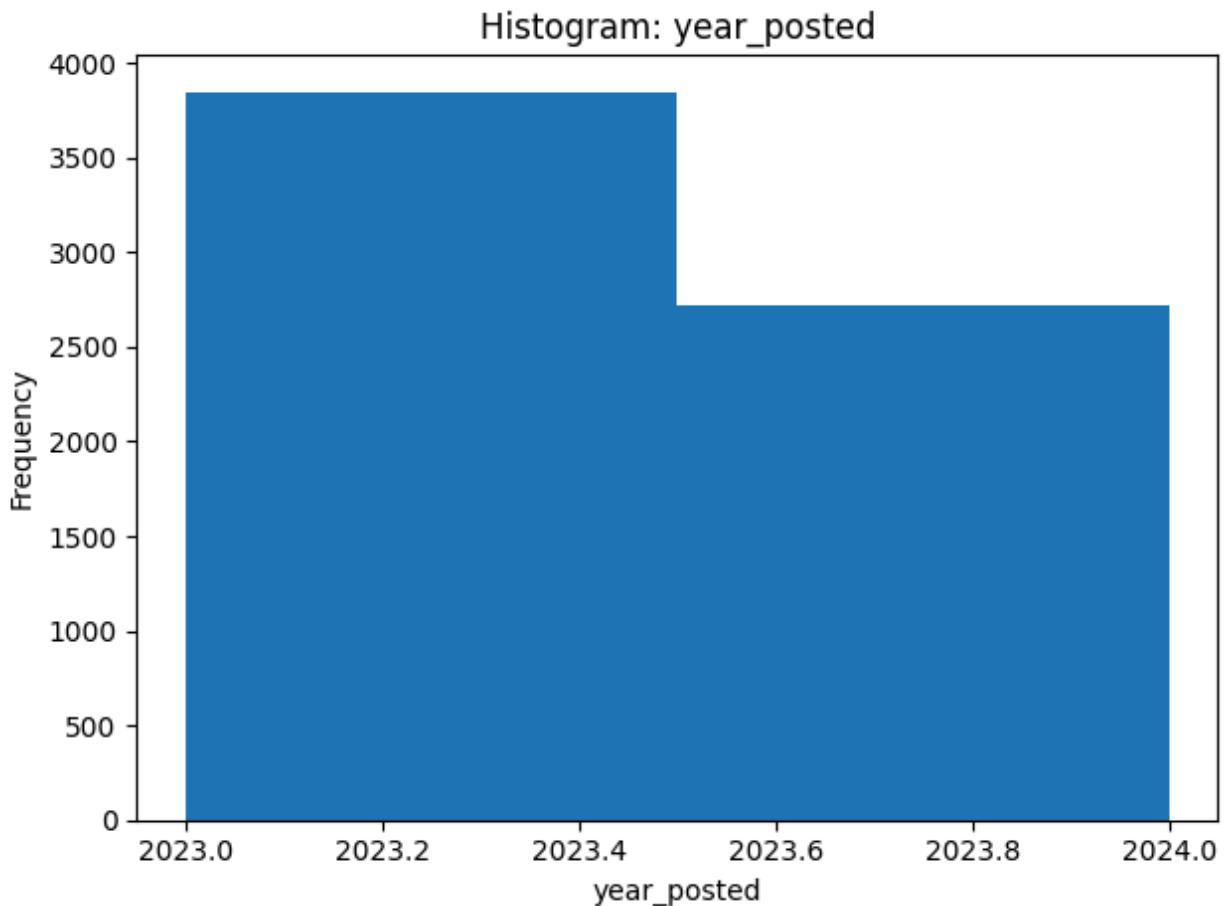
Review Text

- Detailed customer feedback of the product or service
- No other variables were used to construct this variable, but this variable was filtered to only include reviews from 2023 and 2024.
- 6574(0)

Year_posted

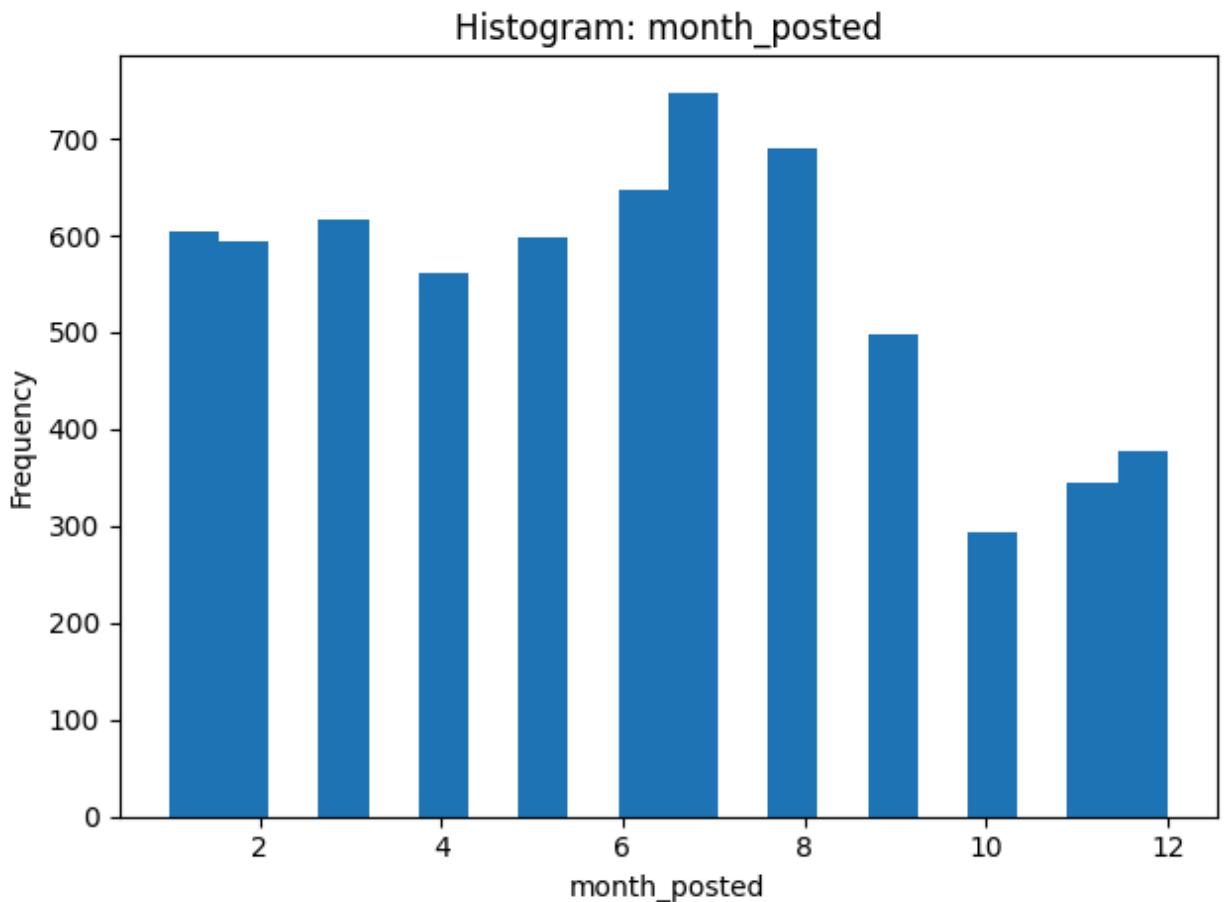
- The year that the review was posted on Amazon
- This variable was extracted from the “Review Date” variable, and filtered to only include 2023 and 2024
- 6574(0)
- Summary statistics:
 - Mean: 2023.41
 - Std: 0.49
 - Min: 2023
 - 25 percentile: 2023

- 50 percentile: 2023
- 75 percentile: 2024
- Max: 2024



Month_posted

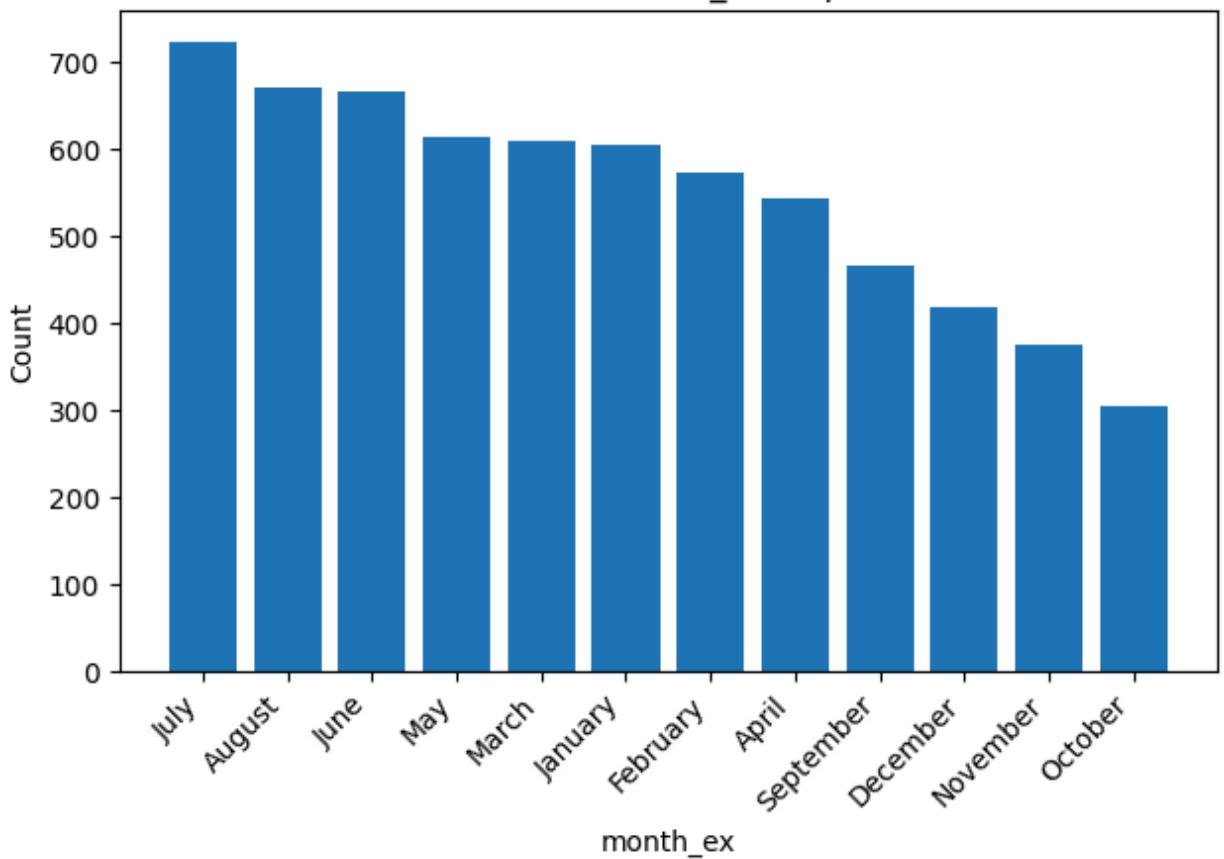
- The month that the review was posted on Amazon
- This variable was extracted from the “Review Date” variable, and filtered to only include 2023 and 2024
- 6574(0)
- Summary statistics:
 - Mean: 5.97
 - Std: 3.21
 - Min: 1
 - 25 percentile: 3
 - 50 percentile: 6
 - 75 percentile: 8
 - Max: 12



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Month_ex

- Month that the product or service was experienced, as text
- Derived from the “Date of Experience” variable and filtered to only include months from reviews posted in 2023 and 2024
- 6574(0)
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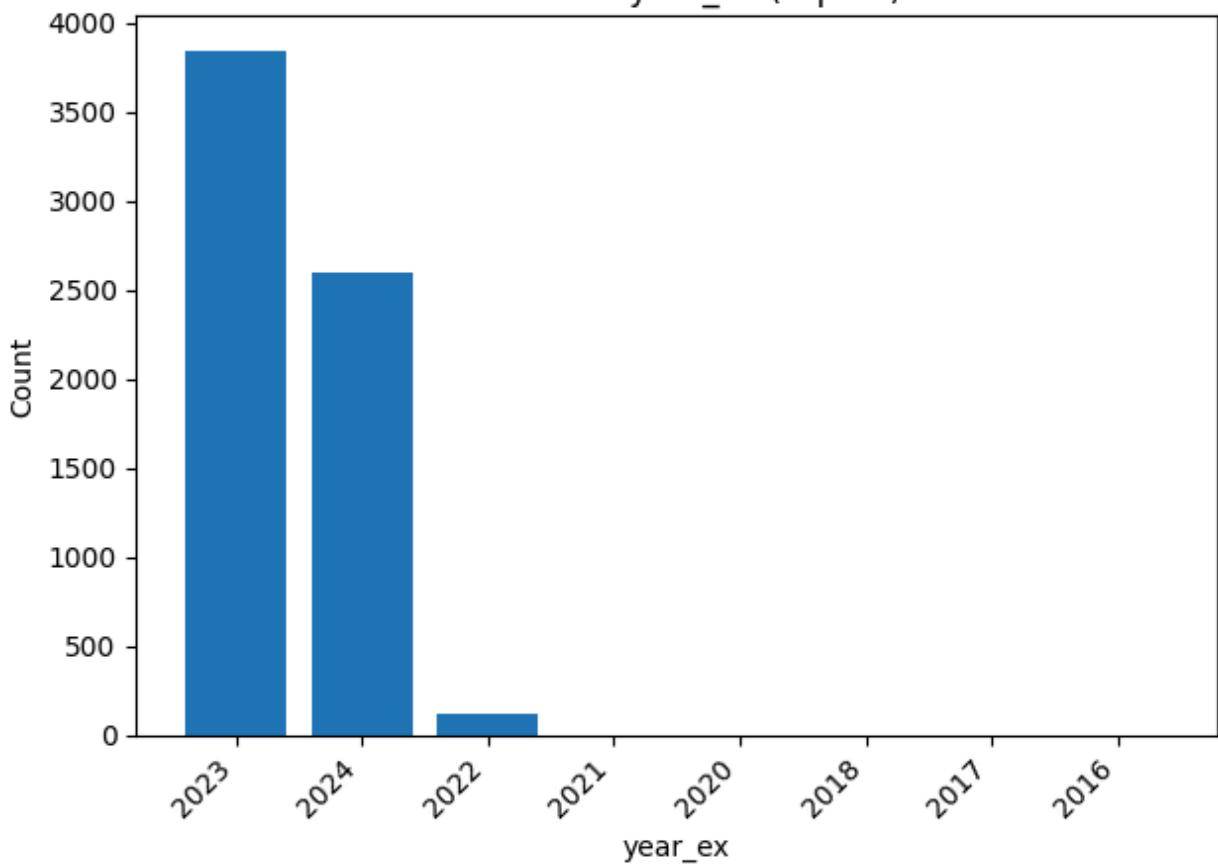
Bar Chart: month_ex (Top 15)



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Year_ex

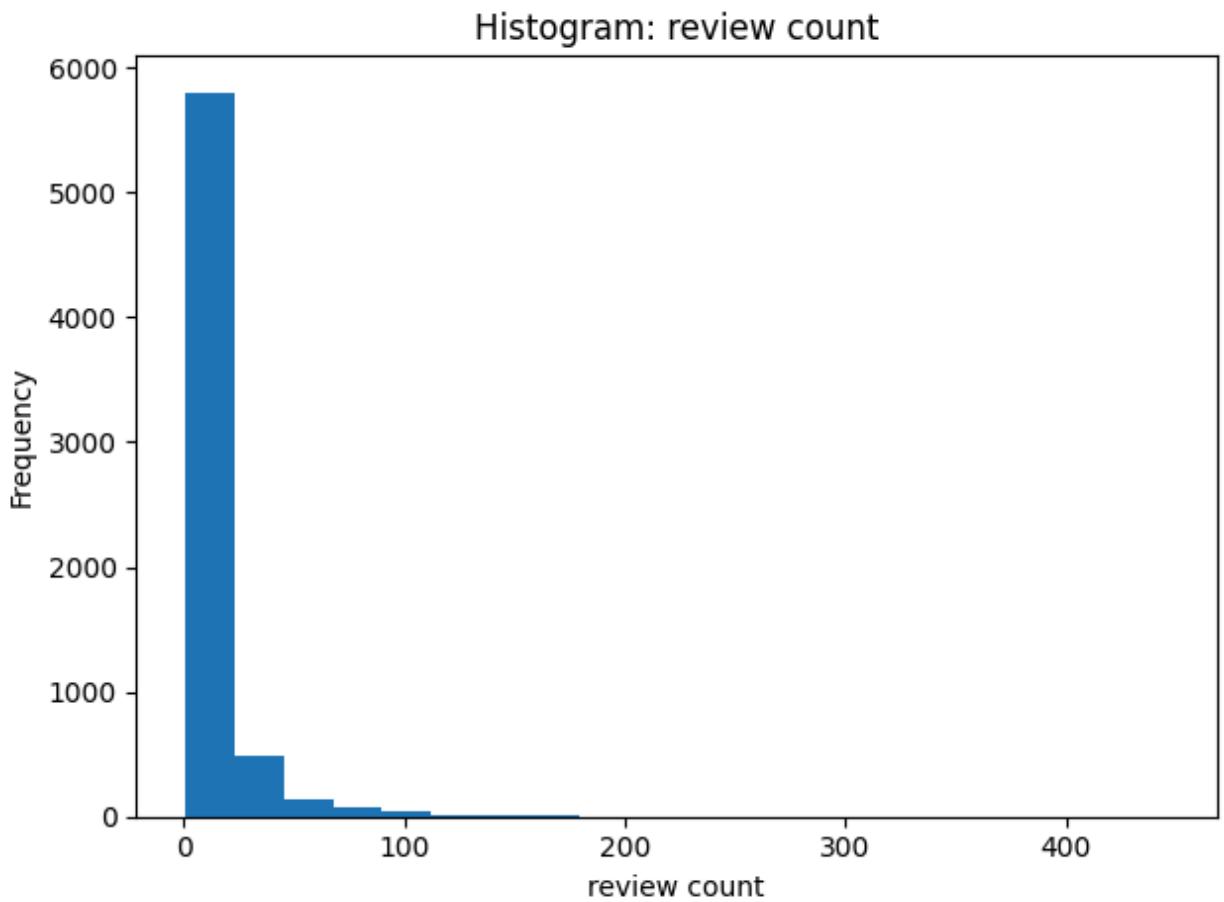
- Year that the product or service was experienced
- Derived from the “Date of Experience” variable and filtered to only include years from reviews posted in 2023 and 2024
- 6574(0)

Bar Chart: year_ex (Top 15)



• *Review count*

- Number of reviews by the same user, written as solely a number
- This variable was derived from the original “review count” variable in the dataset, with the text removed. Filtered to only include reviews posted in 2023 and 2024
- 6574(0)
- Summary statistics:
 - Mean: 10.6
 - Standard deviation: 20.9
 - Min: 1
 - 25 percentile: 2
 - 50 percentile: 4
 - 75 percentile: 11
 - Max: 446

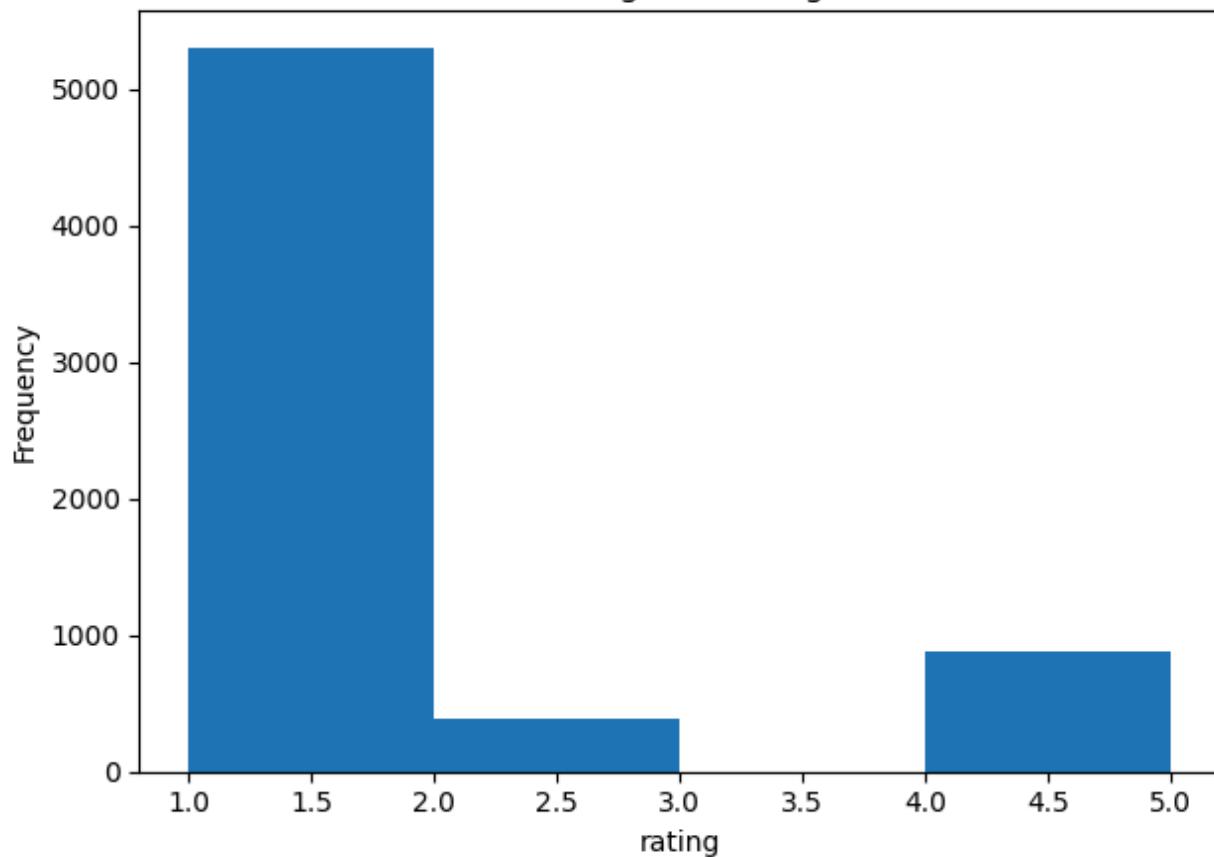


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Rating

- A numerical measure of satisfaction with the product or service, on a scale of 1 to 5
- No other variables were used to construct this variable. However, ratings of “3” were removed (for the binary classifier)
- 6574(0)
- Summary statistics:
 - Mean: 1.56
 - Standard deviation: 1.28
 - Min: 1
 - 25 percentile: 1
 - 50 percentile: 1
 - 75 percentile: 1
 - Max: 5

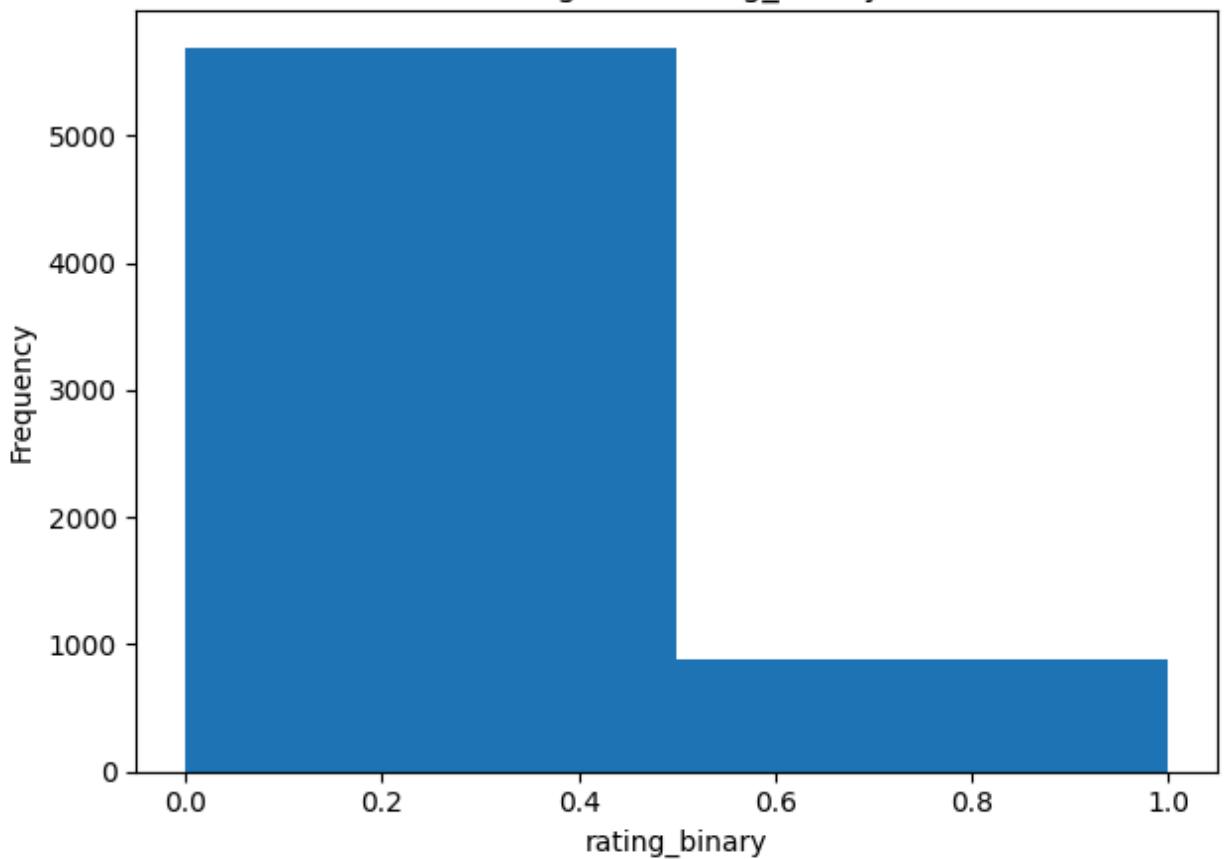
Histogram: rating



Rating_binary

- A binary classification of rating as “low” (1-2) or “high” (4-5)
- Derived from the “rating” variable. Ratings of “3” were removed
- 6574(0)

Histogram: rating_binary



• *Country_grouped*

- A classification of country as either the name of a country that has a top 5 most ratings in the dataset, or “other”
- This is derived from the country variable
- 6574(0)

Bar Chart: Country_grouped (Top 15)

