Sentiment Analysis of Reviews for "Kari" by Amruta Patil

Abstract

This report details the process and findings of a sentiment analysis conducted on reviews for the book "Kari" by Amruta Patil. The study involved extracting reviews from multiple online platforms and performing sentiment analysis to understand the overall sentiment and subjectivity expressed in the reviews.

Introduction

- Objective:

  The primary aim is to analyze the sentiment of reviews for the book "Kari" by Amruta Patil.

- Sources:

  Reviews were collected from Amazon, Flipkart, Goodreads, and The StoryGraph.

Methodology

Data Extraction

1. **Tools and Libraries**:
   - **Selenium**: A tool used for automating web browsers to extract data.
   - **WebDriver Manager**: Manages browser drivers needed for Selenium to operate.
2. **Process**:
   - Reviews were extracted from Amazon.com and Flipkart using web scraping techniques. Selenium was used to navigate the websites and extract review data.
   - The extracted reviews were stored in a list for further processing.
   - Reviews from Amazon.in, Goodreads and The StoryGraph are extracted manually.

Sentiment Analysis

1. **Tools and Libraries**:
   - **Pandas**: A data manipulation library in Python used for handling and analyzing data.
   - **TextBlob**: A library for processing textual data, used for performing sentiment analysis.
   - **Openpyxl**: A library used to read and write Excel files in Python.
2. **Process**:
   - Reviews were read from an Excel file.
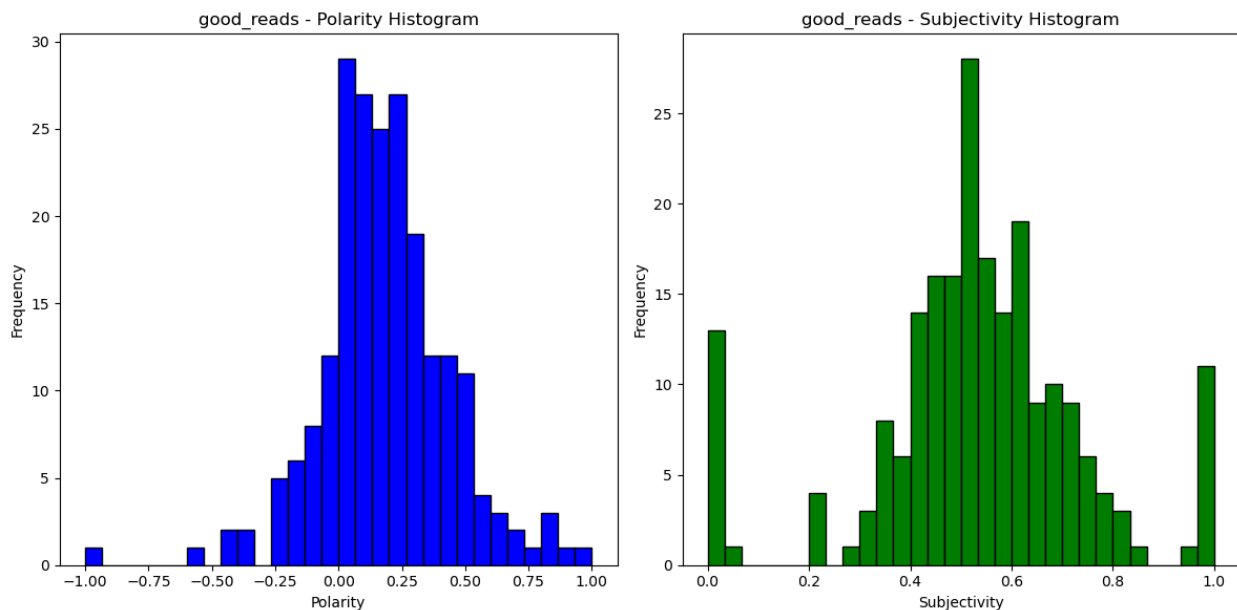
Sentiment Analysis of Reviews for "Kari" by Amruta Patil

- ○ **Sentiment Analysis**: Using TextBlob, each review was analyzed to calculate two key metrics:
  - ■ **Polarity**: Indicates the sentiment of the review, ranging from -1 (very negative) to 1 (very positive).
  - ■ **Subjectivity**: Indicates how subjective or objective the review is, ranging from 0 (very objective) to 1 (very subjective).
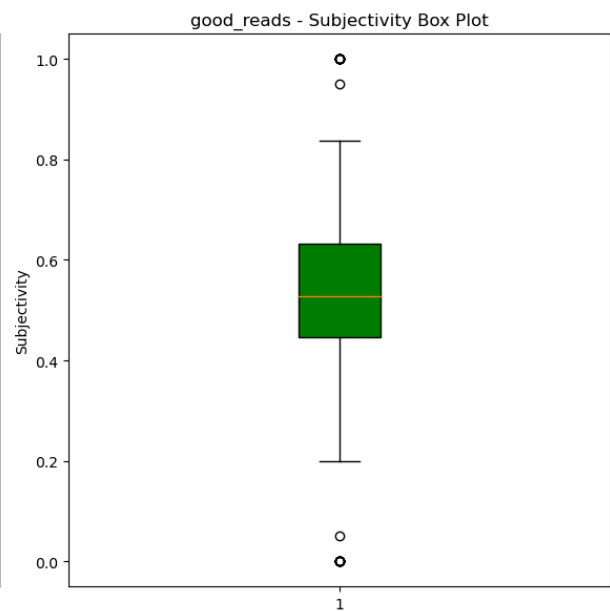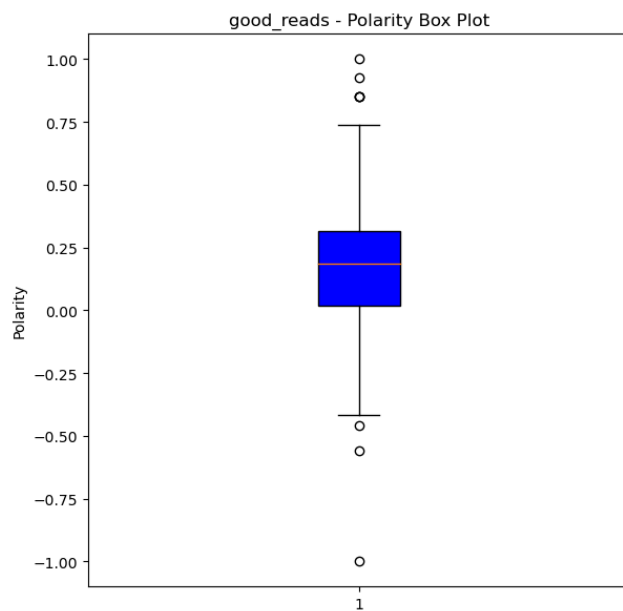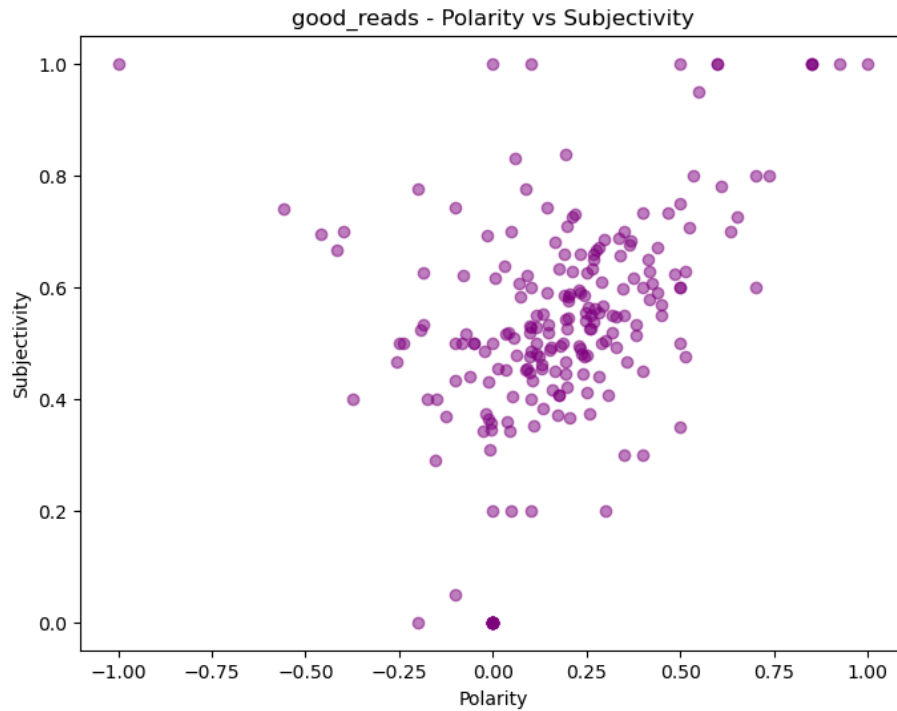- ○ The results of the sentiment analysis were saved to a new Excel file.

Results

- ● The analysis provided insights into the polarity and subjectivity of the reviews.
- ● **Polarity**: Most reviews fell within a certain range, indicating the overall sentiment of the reviewers.
- ● **Subjectivity**: This metric helped identify how personal or impersonal the reviews were.

Plots for sheet: good_reads

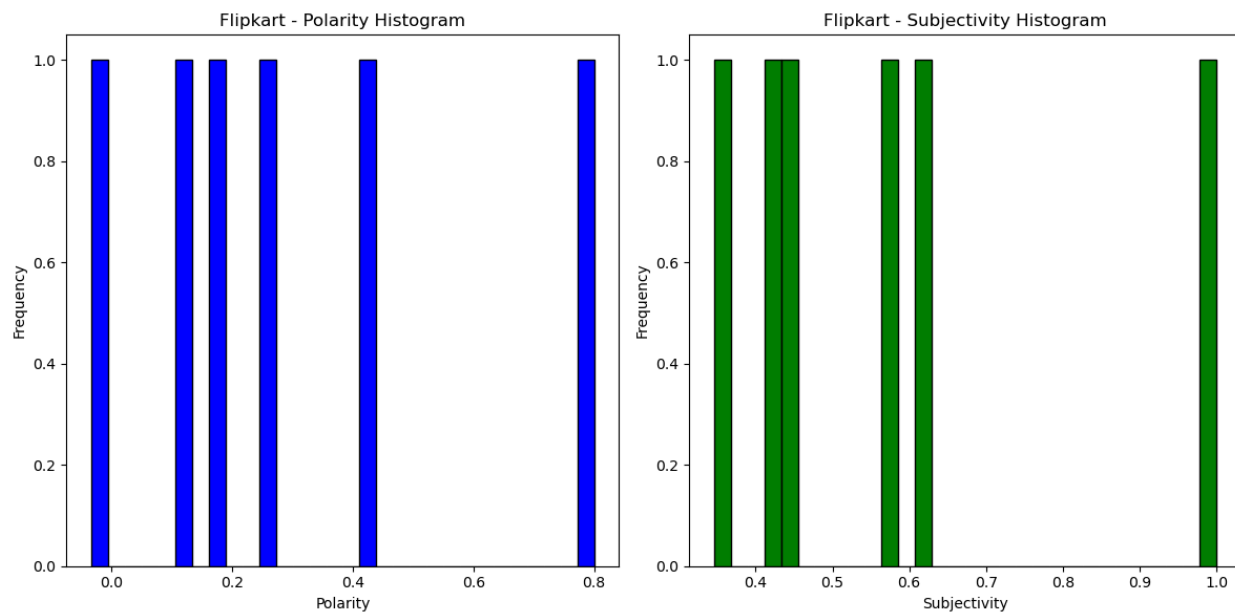# Sentiment Analysis of Reviews for "Kari" by Amruta Patil

good_reads - Polarity vs Subjectivity

good_reads - Polarity Box Plot

good_reads - Subjectivity Box Plot

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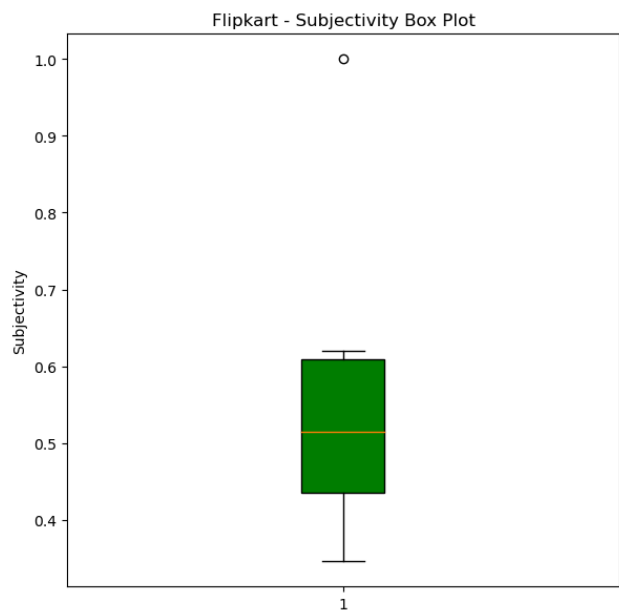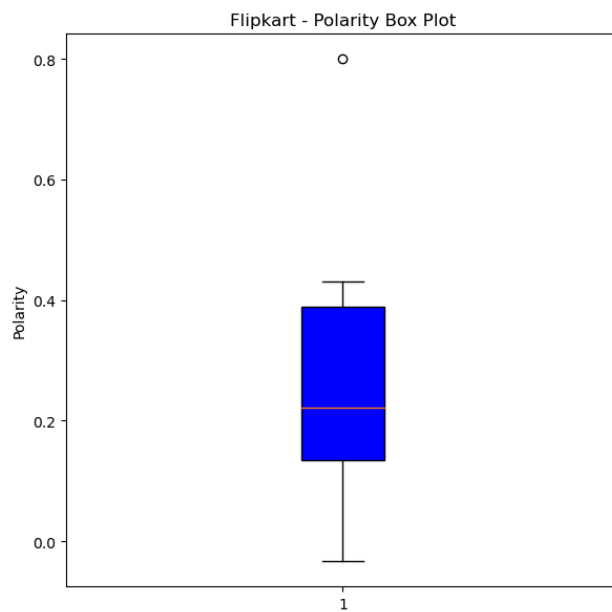
Word Cloud of Book Reviews from good_reads

Plots for sheet: Flipkart

Sentiment Analysis of Reviews for "Kari" by Amruta Patil

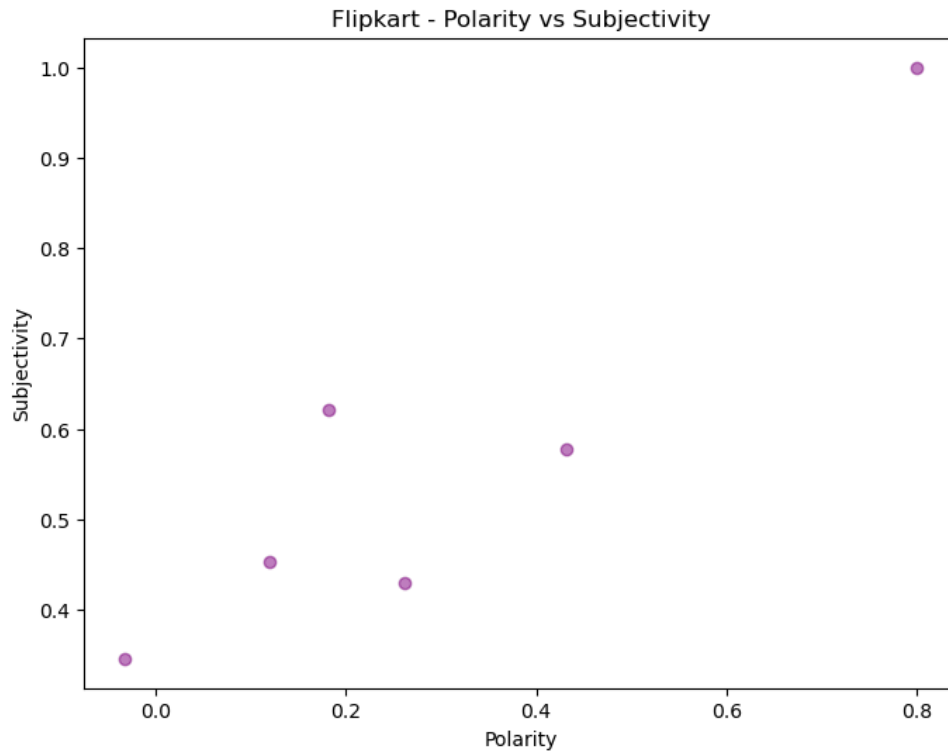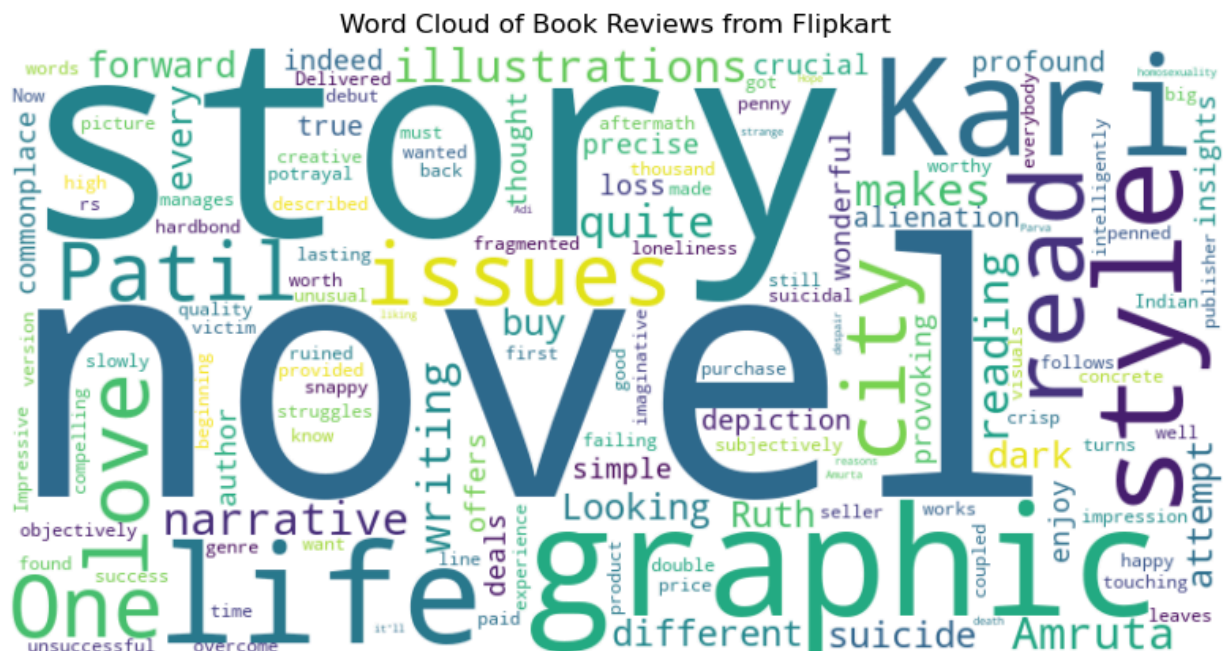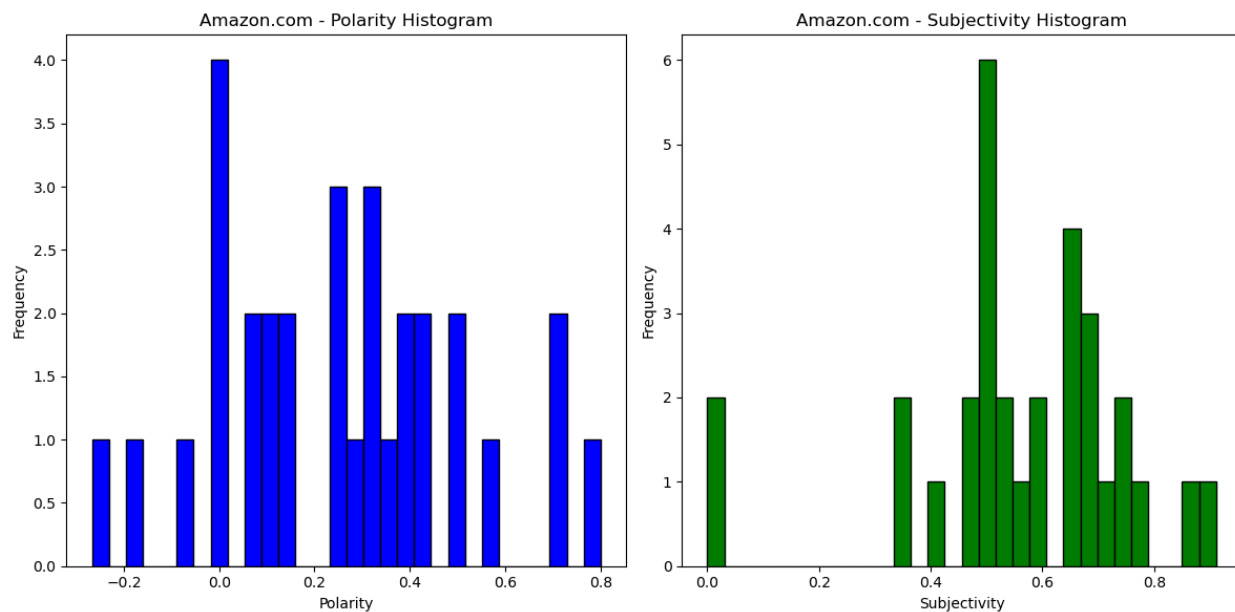# Sentiment Analysis of Reviews for "Kari" by Amruta Patil

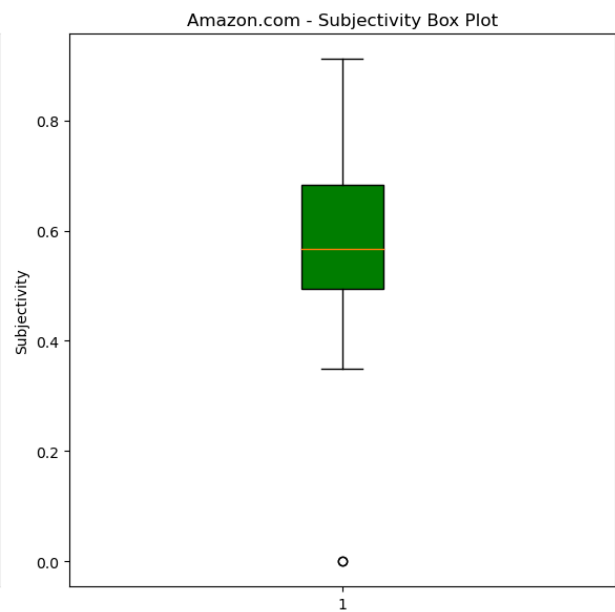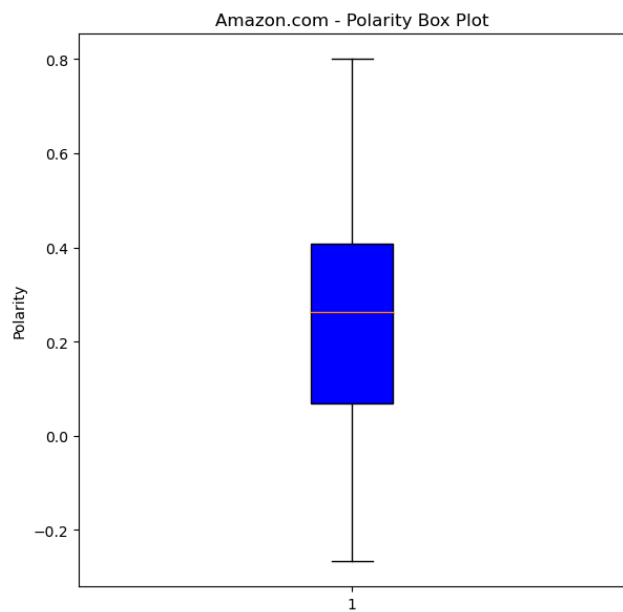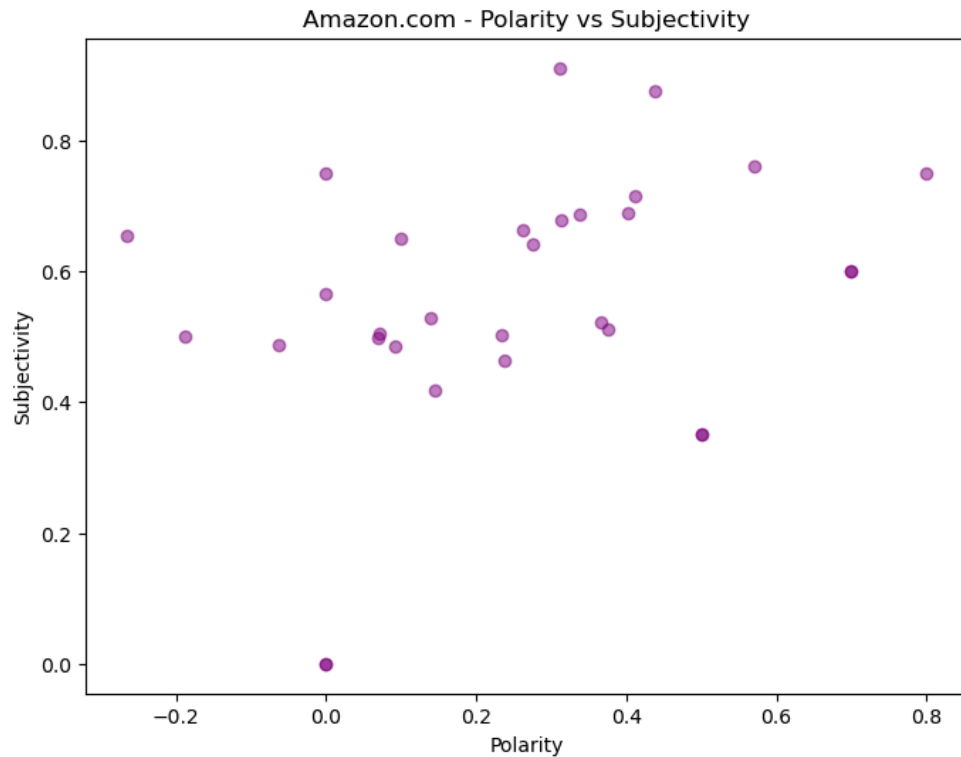Word Cloud of Book Reviews from Flipkart

Plots for sheet: Amazon.com

Sentiment Analysis of Reviews for "Kari" by Amruta Patil

Amazon.com - Polarity vs Subjectivity

Amazon.com - Polarity Box Plot

Amazon.com - Subjectivity Box Plot

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Word Cloud of Book Reviews from Amazon.com

Plots for sheet: Amazon.in

Amazon.in - Polarity Histogram

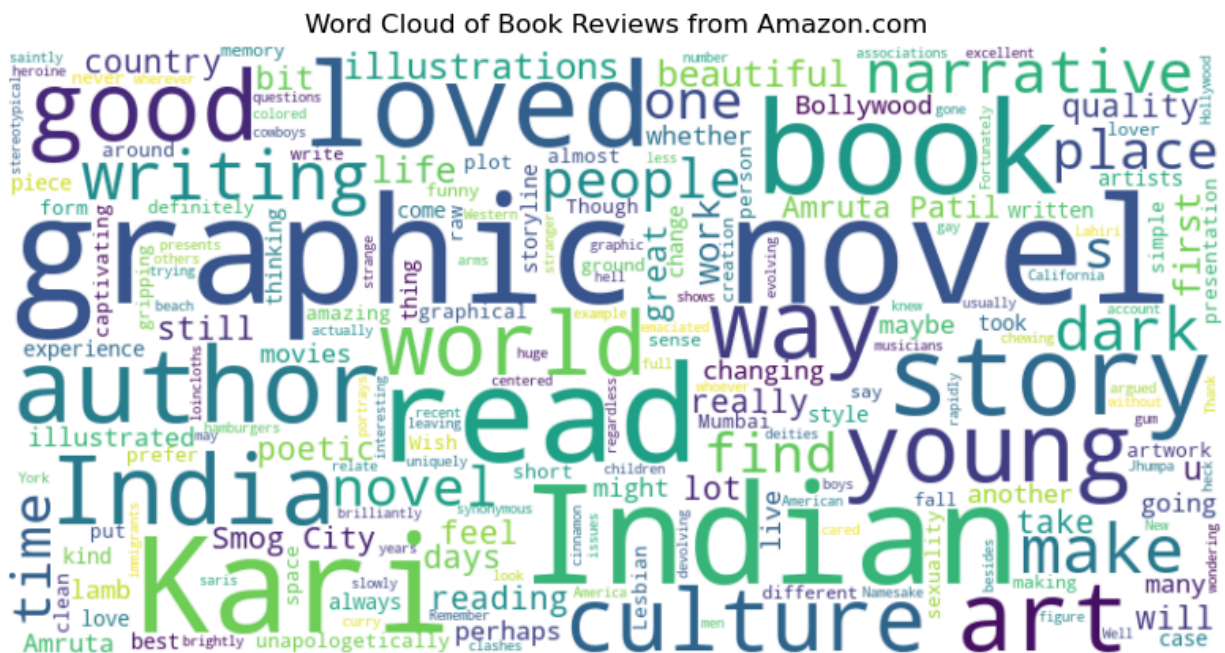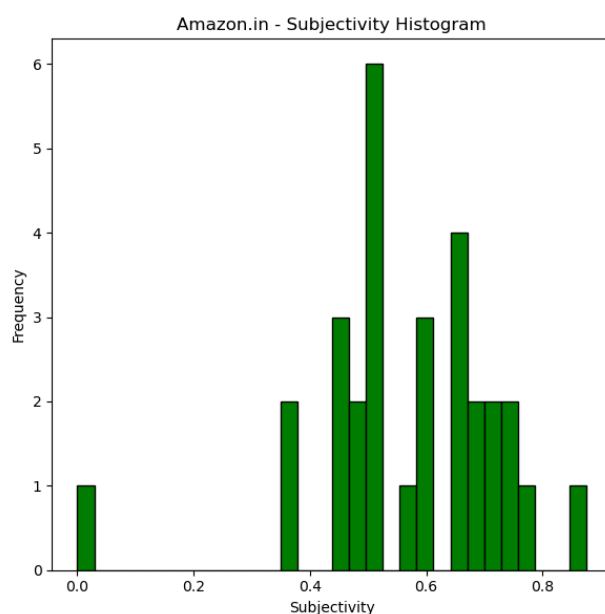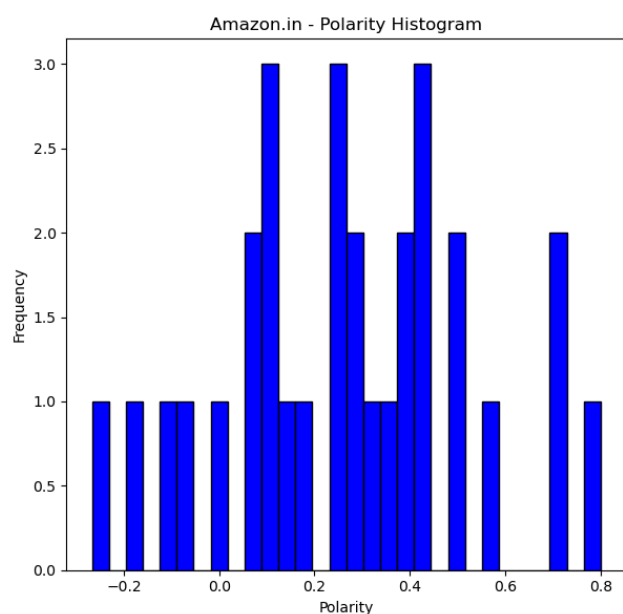Amazon.in - Subjectivity Histogram

Navyaka Kandula

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Word Cloud of Book Reviews from Amazon.in

Plots for sheet: the_story_graph
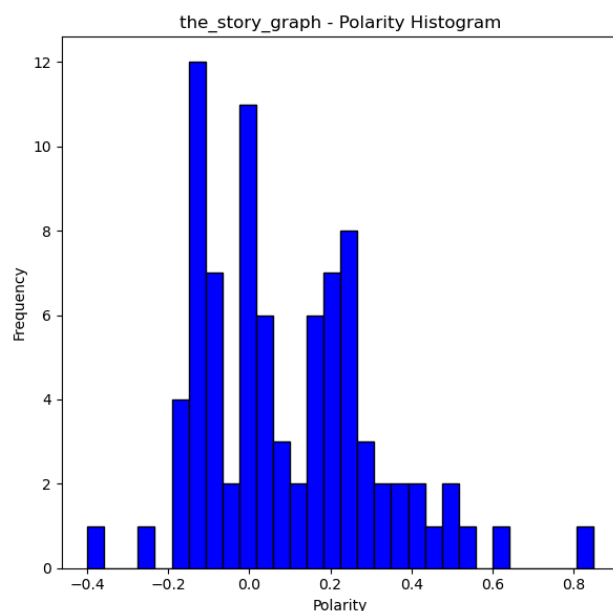
the_story_graph - Polarity Histogram

the_story_graph - Subjectivity Histogram

Sentiment Analysis of Reviews for "Kari" by Amruta Patil
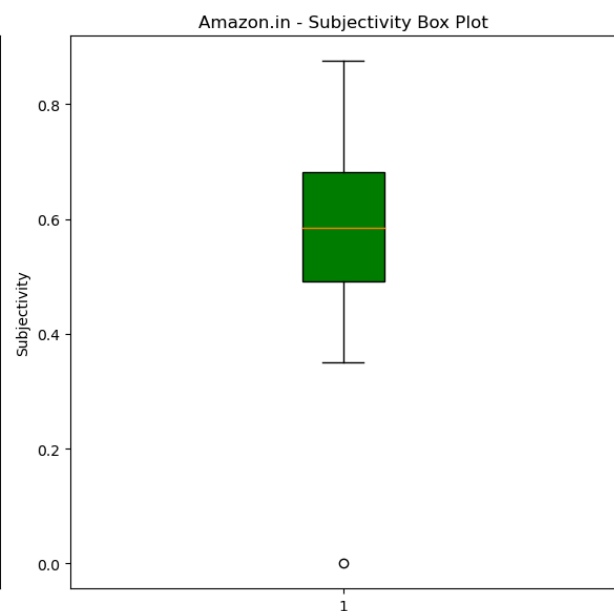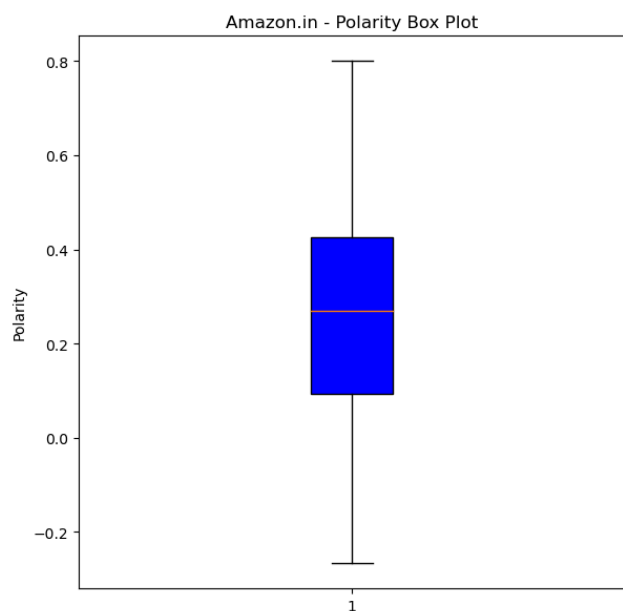
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Word Cloud of Book Reviews from the_story_graph
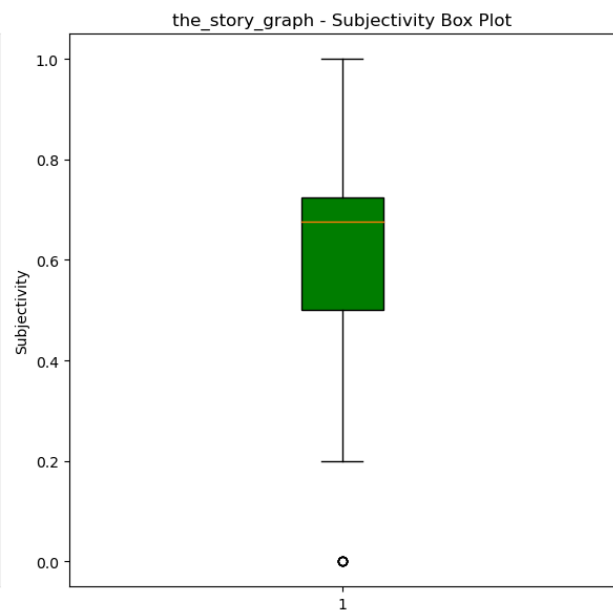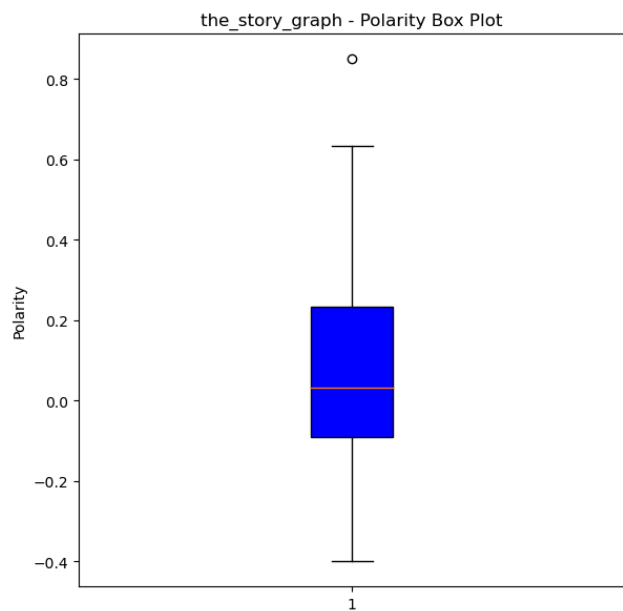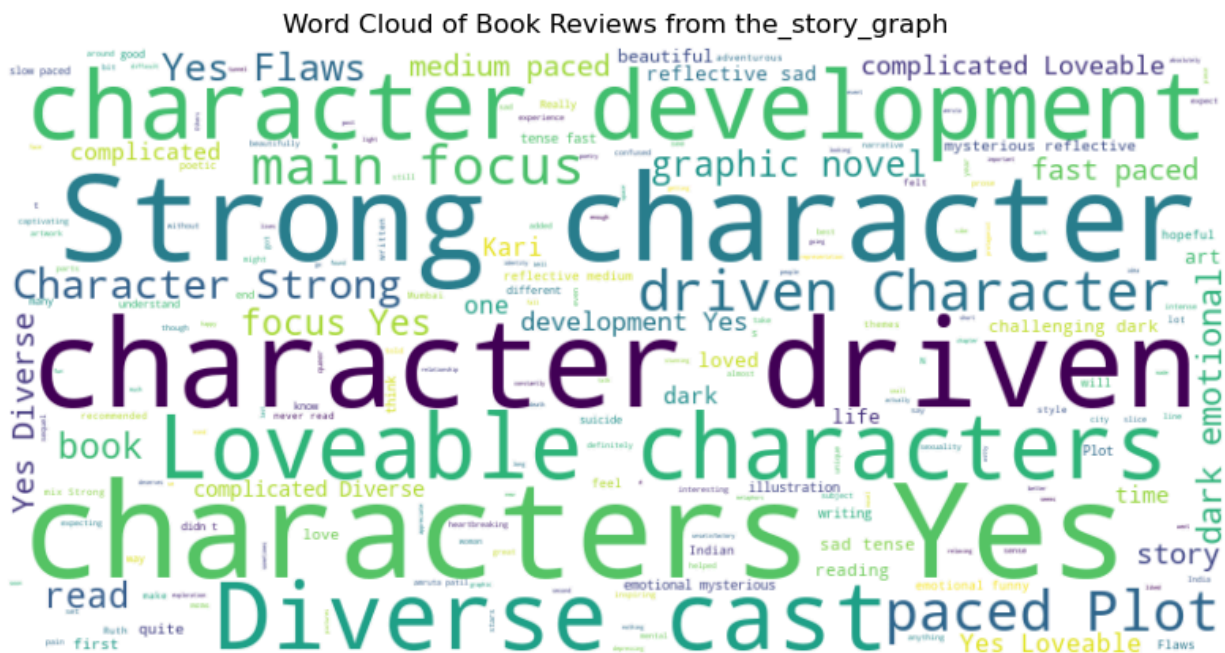
Bar Plots for average polarity and subjectivity across sources of reviews
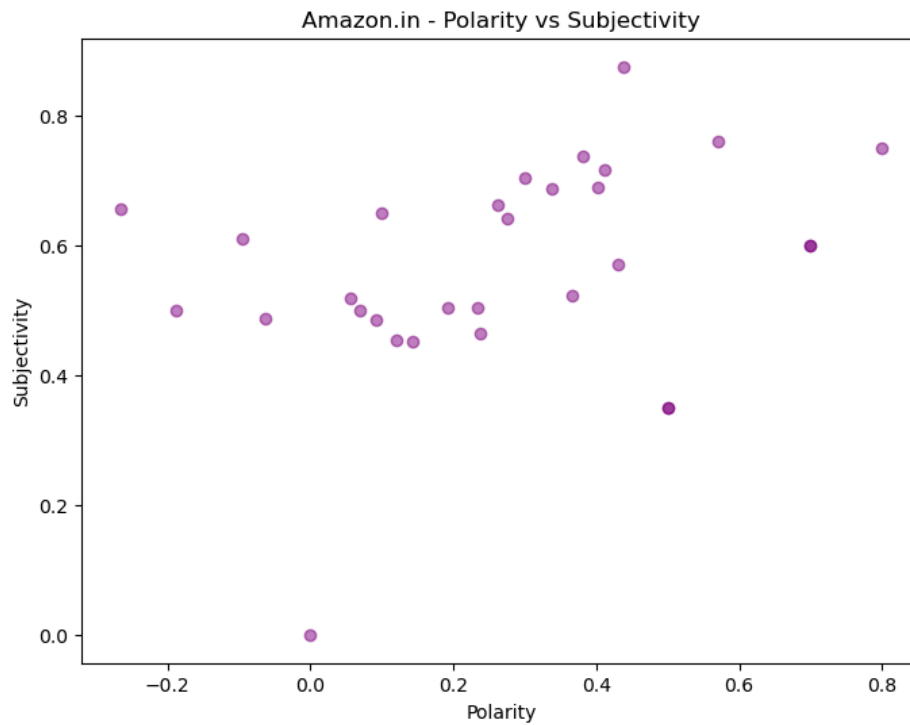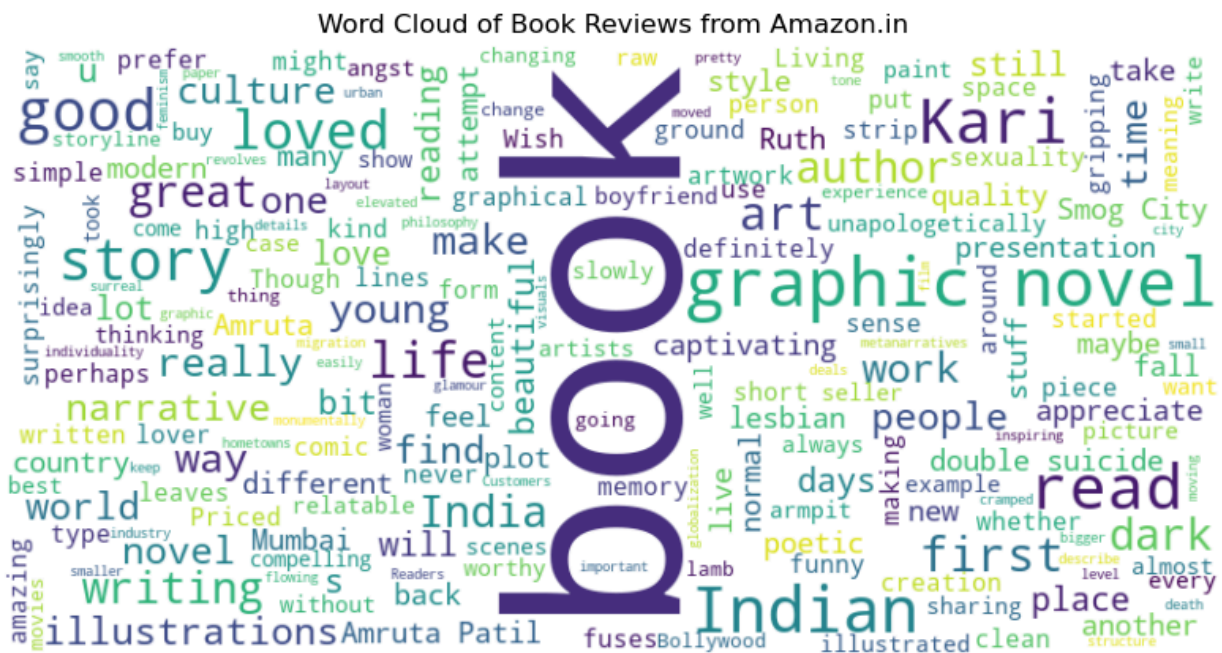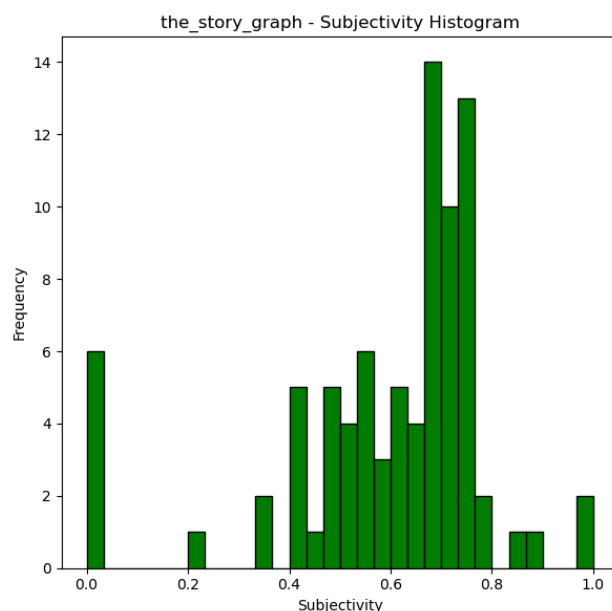
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Heatmap of Average Sentiment Scores by Source

Heatmap of Average Sentiment Scores by Source

Word Cloud of High Subjective Book Reviews

Word Cloud of High Subjective Book Reviews
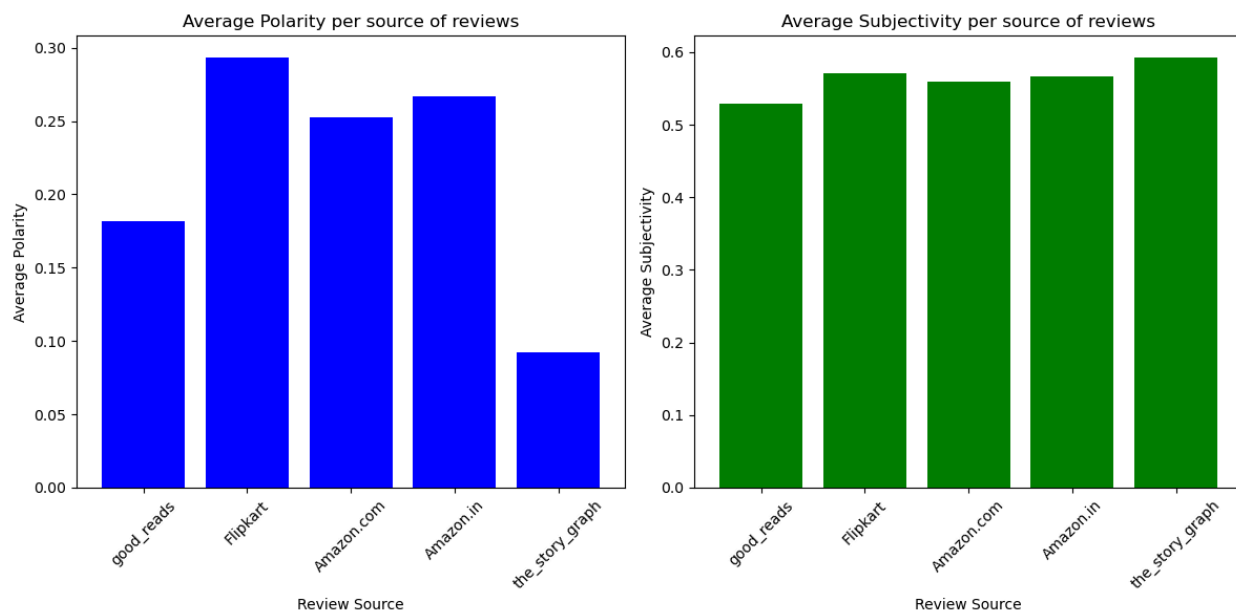
Sentiment Analysis of Reviews for "Kari" by Amruta Patil

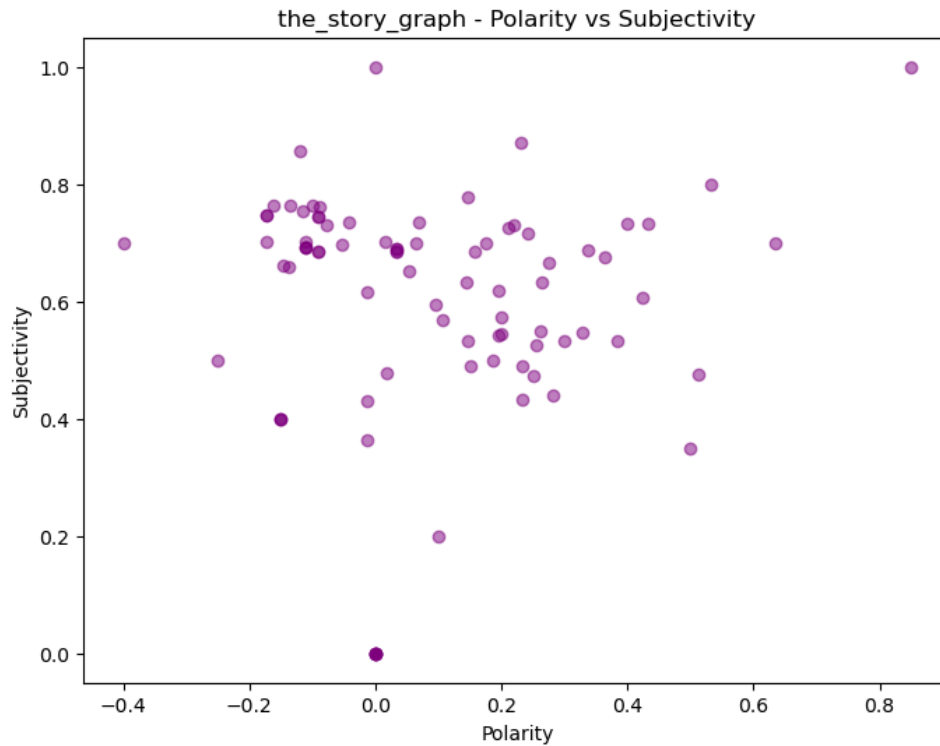Distribution of Polarity in High Subjective Reviews
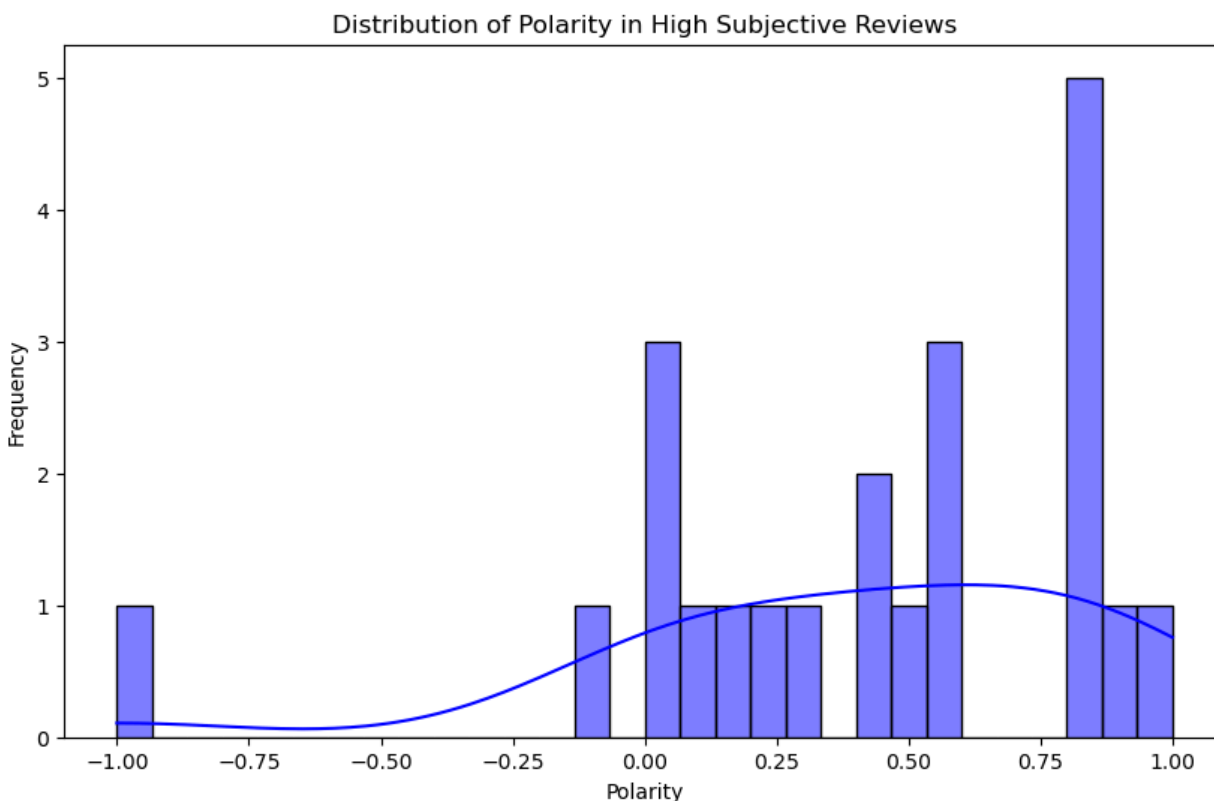
Discussion

- The overall sentiment of the reviews was analyzed and compared across different platforms.
- Differences in sentiment and subjectivity between platforms were noted and discussed.

Conclusion

- The sentiment analysis and plots provided a clear understanding of how readers feel about "Kari" by Amruta Patil.
- Recommendations for improving the analysis in the future include expanding the number of reviews and sources and refining the sentiment analysis methods.

References

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[1]https://www.amazon.com/Kari-Amruta-Patil/dp/8172237103/ref=pd_ci_mcx_mh_mcx_views_0?pd_rd_w=cbvKw&content-id=amzn1.sym.8b590b55-908d-4829-9f90-4c8752768e8b%3Aamzn1.symc.40e6a10e-cbc4-4fa5-81e3-4435ff64d03b&pf_rd_p=8b590b55-908d-4829-9f90-4c8752768e8b&pf_rd_r=BGDPT4PYH8W97BB6NZZN&pd_rd_wg=TI6WW&pd_rd_r=58d34287-7be3-44bc-b62b-5b708e2c2432&pd_rd_i=8172237103

[2]https://www.amazon.in/Kari-Amruta-Patil/dp/8172237103/ref=sr_1_1?crid=3TPZ6HAQKJQ25&dib=eyJ2IjoiMSJ9.KCEaCBDXDzK4Ym735tvMNqzbk11Uf7ftL2Mz1dVFPSp8-jYtclzYwKBlvAuRIZTkFuNxIvGhINqH79HYO4s9wTzpLiTcqGACYpmeHhtdqMB_oIhbqTkmSV4_sHleeVKwAd_om04K07eAg2G1h5Im6kfNew3ojNacSAkNuu3u-Z6YlM1LHrYC-KKJf3USkpyGt7iQbYaZeeWA5GgSsuan9Tn6wZe41AnAoxymBpht0RJKivMfg2ylFeVaZeBBfRL7dVuAJuC3UnTX_Z2dZDVIw8xcmthE_pTeP6wyeJmoGPc.POLkZTLVmXlgTsBkHfdSoDneBgzRixTqYeuvK9HndaU&dib_tag=se&keywords=kari+by+Amruta+Patil&qid=1718824615&sprefix=kari+by+amruta+patil%2Caps%2C137&sr=8-1

[3]https://www.flipkart.com/kari/p/itmf3p95h2pfh4jr?pid=9788172237103&lid=LSTBOK9788172237103RRBLMX&marketplace=FLIPKART&q=kari+by+amruta+patil&store=search.flipkart.com&srno=s_1_1&otracker=search&otracker1=search&fm=Search&iid=3b1dddf4-1625-40e7-80e3-5e86b07be9c8.9788172237103.SEARCH&ppt=sp&ppn=sp&ssid=mhsmm2ez400000001718824765670&qH=71a5d01925073a10

[4]https://www.goodreads.com/en/book/show/3174768-kari

[5]https://app.thestorygraph.com/book_reviews/d79fa5dc-8bf5-4278-937b-383aee492065?page=5