Amazon Product Review Extractor & Sentiment Analysis Tool
(Python + Streamlit + BeautifulSoup + VADERSentiment)

📁 **Project Links**
- Live WebApp (Deployed on Cloud): https://amazon-review-extractor-and-sentiment-analyser.streamlit.app/
- GitHub Repository: https://github.com/Ashish-Bonde/Amazon-Product-Review-Sentiment-Analysis-webscrap-extractor-/tree/main

🔍 **Overview**

The Amazon Product Review Extractor and Sentiment Analysis Tool is a web-based application designed to help users extract, analyze, and visualize product reviews from Amazon. This tool allows businesses, marketers, and researchers to understand customer feedback by extracting reviews and performing sentiment analysis using the VADER model .

This project provides the following core functionalities:
1. Product Review Extraction
   - Extract customer names, review dates, star ratings, short and long reviews.
2. Data Aggregation
   - Store extracted data in a structured format (Pandas DataFrame).
3. Sentiment Analysis
   - Analyze short or long reviews for sentiment: Positive, Neutral, or Negative.
4. Visualization
   - Visualize sentiment results using interactive charts (Pie Chart, Histogram, Scatter Plot).

🧭 **Navigation Menu**

The app has a sidebar with the following options:
1. 🏠 Home – Introduction and how it works.
2. 📦 Amazon Product Review Extractor – Extract reviews from an Amazon product link.
3. 📊 Review Analysis – Perform sentiment analysis on extracted or uploaded data.
4. 📈 Result Visualization – View sentiment results in charts (Pie Chart, Histogram, Scatter Plot).

🛠 **How to Use Each Section**

1. 📦 Amazon Product Review Extractor
✅ **Steps:**
1. Go to the sidebar and select "📦 Amazon Product Review Extractor" .
2. Paste the Amazon product URL into the text box.
3. Click the "Extract" button.
   - Reviews will be fetched and displayed below.
   - You can also extract multiple pages by entering next page URLs.
4. Click "Download as CSV" to save the extracted data for later use.

⚠️ Note: Amazon frequently changes its website structure. If extraction fails, try again or check if the product page uses JavaScript rendering (not supported by this tool).

2. 📊 Review Analysis

You can analyze sentiment from:
- Extracted Amazon reviews
- Uploaded CSV file
- Google Sheets via public link

✅ **Steps:**
1. Select "📊 Review Analysis" from the sidebar.

2. Choose input method:
   - Extracted Amazon Reviews
   - Upload CSV File
   - Google Sheet Link
3. Upload/select your file or paste the link.
4. Choose the column containing the review text .
5. Click "Analyze" .
   - The system will classify each review as Positive , Negative , or Neutral using the VADER model .
6. Download the analyzed results as CSV .

3. 📈 Result Visualization

After performing sentiment analysis, you can visualize the results.

✅ **Steps:**

1. Select "📈 Result Visualization" from the sidebar.
2. Choose visualization type:
   - Pie Chart : Overall sentiment distribution.
   - Histogram : Sentiment across selected columns.
   - Scatter Plot : Sentiment vs other features.

💡 Advantages of This Tool

Feature	Description
🌐Cloud-Based	No installation needed; just open link in any browser.
📤File Upload Support	Analyze sentiment from local CSV files.
📑Google Sheets Integration	Paste a shareable Google Sheet link for live analysis.
🤖NLP-Powered Sentiment Analysis	Uses VADER for quick and accurate sentiment classification.
📊Interactive Visualizations	Understand customer opinions visually with Plotly charts.
📦Data Export	Save both raw and analyzed data as CSV for further use.

⚠️ Limitations

- Amazon Website Changes : Amazon frequently changes its HTML structure, which may affect scraping accuracy.
- No Login Required Detection : Some pages require login and are not accessible through this tool.
- Limited Sentiment Model : VADER is best suited for social media texts; may not capture nuanced product sentiment accurately.

🗂️ Example Use Cases

✅ **Business Use**

- Analyze customer feedback on new products.
- Track customer satisfaction over time.
- Identify common complaints or praises in reviews.

🎓 **Academic / Research Use**

- Study consumer behavior.
- Compare sentiment between different products.

- Build datasets for machine learning projects.

🛒 **Personal Use**
- Decide whether to buy a product based on aggregated sentiment.
- Compare products before making a purchase.

🛠 **Technology Stack**

Layer	Technology Used	Description
Frontend	Streamlit	For building an intuitive and responsive web interface
Backend	Python	Handles logic, scraping, and analysis
Web Scraping	BeautifulSoup + Requests	To parse HTML content and extract relevant review data
NLP Engine	VADERSentiment	For performing sentiment analysis on text
Data Visualization	Plotly Express	Interactive visualizations for sentiment breakdown
Data Handling	Pandas	Structured data manipulation and storage

Coding:

```python
import streamlit as st
import requests
from bs4 import BeautifulSoup
import pandas as pd
from vaderSentiment.vaderSentiment import SentimentIntensityAnalyzer
import plotly.express as px
import nltk
import ssl

st.set_page_config(
    page_title="Amazon Product Review Analysis Tool",
    page_icon="🛒",
    layout="wide",
    initial_sidebar_state="expanded"
)


if "global_df" not in st.session_state:
    st.session_state.global_df = pd.DataFrame(columns=["Name", "Date", "Star_Rating",
"Short_Review", "Long_Review"])


def extract_reviews(url):
    headers = {
        'User-Agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) '
                     'AppleWebKit/537.36 (KHTML, like Gecko) '
                     'Chrome/120.0.0.0 Safari/537.36',
        'Accept-Language': 'en-US,en;q=0.9',
        'Referer': 'https://www.amazon.com/',  # Helps mimic natural browsing behavior
```

```python
        'Accept-Encoding': 'gzip, deflate, br',  # Supports compressed responses for faster
data retrieval
        'Connection': 'keep-alive',  # Keeps the session open for multiple requests
        'Cache-Control': 'max-age=0',  # Prevents caching issues that may affect dynamic
content loading
        'Upgrade-Insecure-Requests': '1',  # Ensures secure browsing for better stability
    }


    web = requests.get(url, headers=headers)

    if web.status_code != 200:
        st.error("Failed to connect. Please check the link.")
        return pd.DataFrame()

    soup = BeautifulSoup(web.content, 'html.parser')


    names = [i.get_text(strip=True) if i else "N/A" for i in soup.find_all('span', {'class':
'a-profile-name'})]
    dates = [i.get_text(strip=True).replace("Reviewed in India on ", "") if i else "N/A" for i
in soup.find_all('span', {'class': 'review-date'})]
    star_ratings = [i.get_text(strip=True) if i and "out of 5 stars" in i.text else "N/A" for
i in soup.find_all('span', {'class': 'a-icon-alt'})]


    short_reviews = []
    for link in soup.find_all('a', {'class': 'review-title'}):
        review_text = link.get_text(strip=True)
        cleaned_text = review_text.split("out of 5 stars")[-1].strip()
        if cleaned_text:
            short_reviews.append(cleaned_text)


    long_reviews = []
    review_text_containers = soup.find_all('span', class_=lambda c: c and 'a-size-base' in c
and 'review-text' in c)

    for container in review_text_containers:
        review_body_span = container.find('span')
        review_text = review_body_span.get_text(strip=True) if review_body_span else
container.get_text(strip=True)

        read_more_link = container.find_next_sibling('div', class_=lambda c: c and 'a-
expander-header' in c)
        if read_more_link:
            text_parts = [c.strip() for c in container.contents if isinstance(c, str) or
c.name == "span"]
            review_text = " ".join(text_parts)

        if review_text:
            long_reviews.append(review_text)

    max_length = max(len(names), len(dates), len(star_ratings), len(short_reviews),
len(long_reviews))
    names += ["N/A"] * (max_length - len(names))
```

```python
        dates += ["N/A"] * (max_length - len(dates))
        star_ratings += ["N/A"] * (max_length - len(star_ratings))
        short_reviews += ["N/A"] * (max_length - len(short_reviews))
        long_reviews += ["N/A"] * (max_length - len(long_reviews))


    df = pd.DataFrame({
        "Name": names,
        "Date": dates,
        "Star_Rating": star_ratings,
        "Short_Review": short_reviews,
        "Long_Review": long_reviews,
    })


    df.replace("N/A", pd.NA, inplace=True)
    df.dropna(how='all', inplace=True)

    return df




st.markdown(
    """
    <style>
        body { background-color: #121212; color: #ffffff; }
        .reportview-container { background-color: #121212; }
        .sidebar .sidebar-content { background-color: #1f1f1f; }
        h1, h2, h3, h4, h5, h6 { color: #ffffff; }
    </style>
    """,
    unsafe_allow_html=True
)




choice = st.sidebar.selectbox(
    "🚀 Select an Option",
    ("🏠 Home", "📦🛒 Amazon Product Review Extractor", "📊 Review Analysis", "📈 Result
Visualization")
)

if choice == "🏠 Home":

    st.title("🌟 Amazon Product Review Analysis Tool 🌟")

    # **Stylized Welcome Message**
    st.markdown(
        """
        <div style="text-align: center; font-size:22px; font-weight: bold;
                    color: #FFA500; background-color: #1f1f1f; padding: 10px;
                    border-radius: 8px;">
```

```python
        Welcome to the cutting-edge sentiment analysis platform! 🚀
        </div>
        """,
        unsafe_allow_html=True,
    )


    # **Highlighted Feature Message**
    st.markdown(
        """
        <div style="text-align: center; font-size:20px; font-weight: bold;
                    color: #00FF00; background-color: #333333; padding: 10px;
                    border-radius: 8px;">
        Powered by VADER Sentiment Model, this tool decodes and understands Amazon product
reviews with precision.
        </div>
        """,
        unsafe_allow_html=True,
    )



    # **Visually Engaging Flow Section**
    st.subheader("🔍 How It Works:")
    st.success("1️⃣ **Extract Reviews** – Enter an Amazon product link to retrieve customer
feedback.")
    st.info("2️⃣ **Analyze Sentiment** – Process extracted reviews to determine sentiment
(Positive, Neutral, Negative).")
    st.warning("3️⃣ **Visualize Results** – View interactive charts and insights based on
analyzed sentiments.")

    # **Call-to-Action**
    st.markdown(
        "<h3 style='text-align: center;'>✨ Get started by selecting an option from the
sidebar! ✨</h3>",
        unsafe_allow_html=True,
    )


elif choice == "📦 🛒 Amazon Product Review Extractor":
    st.subheader("Amazon Product Review Extractor")
    st.write("Enter an Amazon product link to extract and analyze customer reviews
efficiently.")

    url = st.text_input("Enter Link and then press enter:")
    st.info("Amazon's website structure changes frequently, which may impact review
extraction. You may need to click 'Extract' button multiple times.")
    st.warning(' Before proceeding with Sentiment Analysis on the downloaded CSV file, ensure
the data is cleaned, properly formatted, and free of empty values for accurate results.')

    if url:
        st.write("Press 'Extract' to fetch reviews.")

        if st.button("Extract"):
            extracted_df = extract_reviews(url)

            if not extracted_df.empty:
```

```python
                separator_df = pd.DataFrame([["-", "-", "-", "-", "-"]], columns=["Name",
"Date", "Star_Rating", "Short_Review", "Long_Review"])
                st.session_state.global_df = pd.concat([st.session_state.global_df,
separator_df, extracted_df], ignore_index=True)

                st.success("Reviews extracted successfully!")
                st.write(st.session_state.global_df)


        next_url = st.text_input("Enter the next page URL and press Enter")
        if next_url and st.button("Add Extra Data"):
            next_df = extract_reviews(next_url)

            if not next_df.empty:

                separator_df = pd.DataFrame([["-", "-", "-", "-", "-"]], columns=["Name",
"Date", "Star_Rating", "Short_Review", "Long_Review"])
                st.session_state.global_df = pd.concat([st.session_state.global_df,
separator_df, next_df], ignore_index=True)

                st.success("Next page reviews added successfully!")
                st.write(st.session_state.global_df)


        if st.sidebar.button("Reset Data"):
            st.session_state.global_df = pd.DataFrame(columns=["Name", "Date", "Star_Rating",
"Short_Review", "Long_Review"])
            st.success("Data reset successfully!")

    if st.button("Download as CSV"):
        if st.session_state.global_df.empty:
            st.warning("No reviews extracted yet!")
        else:

            st.session_state.global_df.to_csv("Amazon_Extracted_Data.csv", index=False)
            st.success("Amazon extracted data saved as 'Amazon_Extracted_Data.csv'.")
            st.success("To proceed with sentiment analysis, please upload
'Amazon_Extracted_Data.csv' in the 'Analysis with CSV file' section.")


elif choice == "📊 Review Analysis":
    st.subheader("Amazon Product Review Analysis")
    st.write("Upload a CSV file, enter a Google Sheet link, or use extracted Amazon reviews
for analysis.")


    input_choice = st.selectbox("Select Input Method", ("Extracted Amazon Reviews", "Upload
CSV File", "Google Sheet Link"))

    df = None


    if input_choice == "Extracted Amazon Reviews":

        if "global_df" in st.session_state:
            df = st.session_state.global_df.copy()
```

```python
        else:
            st.warning("No reviews extracted yet! Please extract reviews first.")


    elif input_choice == "Upload CSV File":
        uploaded_file = st.file_uploader("Upload a CSV file", type=["csv"])
        if uploaded_file:
            encodings = ["utf-8", "ISO-8859-1", "latin1"]
            for encoding in encodings:
                try:
                    df = pd.read_csv(uploaded_file, encoding=encoding, on_bad_lines="skip")
                    st.write(f"CSV file successfully read with encoding: {encoding}")
                    break
                except Exception:
                    st.warning(f"Failed to read file with encoding {encoding}. Trying
next...")

            if df is None:
                st.error("Failed to read the CSV file.")

    elif input_choice == "Google Sheet Link":
        st.success('''Confirm the sheet link is proper and sharing settings allow public
access. 🚀 This helps prevent data parsing issues!''')

        google_sheet_link = st.text_input("Enter Google Sheet link and press Enter")


        if google_sheet_link:
            if "/edit?usp=sharing" in google_sheet_link:
                google_sheet_link = google_sheet_link.replace("/edit?usp=sharing",
"/export?format=csv")
                st.success("✅ Google Sheets link converted for CSV export!")


            df = None
            encodings = ["utf-8", "ISO-8859-1", "latin1"]

            for encoding in encodings:
                try:
                    ssl._create_default_https_context = ssl._create_unverified_context
                    df = pd.read_csv(google_sheet_link, encoding=encoding,
on_bad_lines="skip")
                    st.write(f"Google Sheet successfully read with encoding: {encoding}")

                    break
                except Exception:
                    st.warning(f"⚠️ Failed to read file with encoding {encoding}. Trying
next...")


    if df is not None and not df.empty:
        st.write("Successfully loaded data:")
        st.dataframe(df)

        if "global_df" not in st.session_state:
```

```python
            st.session_state.global_df = df.copy()


        c = st.selectbox("Choose Column", df.columns)
        if c:
            st.write(f"Column to analyze: {c}")

            if st.button("Analyze"):
                st.success("Performing sentiment analysis...")
                mymodel = SentimentIntensityAnalyzer()

                sentiments = []
                for i in range(len(df)):
                    text = df._get_value(i, c)

                    if pd.isna(text):
                        text = ""
                    else:
                        text = str(text)

                    pred = mymodel.polarity_scores(text)

                    if pred["compound"] > 0.5:
                        sentiments.append("Positive")
                    elif pred["compound"] < -0.5:
                        sentiments.append("Negative")
                    else:
                        sentiments.append("Neutral")

                df["Sentiment"] = sentiments

                st.session_state.processed_df = df.copy()

                st.write("Sentiment Analysis Results:")
                st.dataframe(st.session_state.processed_df)

                st.session_state.processed_df.to_csv("Sentiment_Analysis_Results.csv",
index=False)
                st.success("Sentiment analysis completed. Results saved to
'Sentiment_Analysis_Results.csv'.")
    else:
        st.warning("No data available. Please upload a valid file or provide a valid Google
Sheet link.")


elif choice == "📈 Result Visualization":
    st.subheader("Result Visualization")
    st.write("Visualize the sentiment analysis results.")
    df = pd.read_csv("Sentiment_Analysis_Results.csv")
    if df.empty:
        st.warning("No sentiment analysis results available. Please perform sentiment analysis
first.")
    else:
        st.write("Sentiment Analysis Results:")
        st.dataframe(df)
```

```python
    v_choice = st.selectbox("Select Visualization Type", ("None","Pie Chart", "Scatter Plot",
"Histogram"))
    if v_choice == "Pie Chart":
        pos_per = (len(df[df["Sentiment"] == "Positive"]) / len(df)) * 100
        neg_per = (len(df[df["Sentiment"] == "Negative"]) / len(df)) * 100
        neu_per = (len(df[df["Sentiment"] == "Neutral"]) / len(df)) * 100

        fig = px.pie(values=[pos_per, neg_per, neu_per], names=["Positive", "Negative",
"Neutral"], title="Sentiment Analysis")
        st.plotly_chart(fig)

    elif v_choice == "Histogram":
        k=st.selectbox("Choose Column", df.columns)
        if k:
            fig = px.histogram(x=df[k], color=df["Sentiment"], title="Sentiment Analysis")
            st.plotly_chart(fig)

    elif v_choice == "Scatter Plot":
        k=st.selectbox("Choose Column", df.columns)
        if k:
            fig = px.scatter(x=df[k], y=df["Sentiment"], title="Sentiment Analysis")
            st.plotly_chart(fig)

st.write("---")
st.markdown(f"""**👨‍💻 Developed by Ashish Bonde** <br>
💬 **Interested in the Amazon Review Extractor and Sentiment Analysis WebApp?** <br>
📇 Connect with me on :<br>[LinkedIn](https://www.linkedin.com/in/ashish-bonde/)<br>[GitHub
Profile](https://github.com/Ashish-Bonde)<br>
[WhatsApp](https://api.whatsapp.com/send?phone=918484864084&text=Hi%20Ashish!%20I%20came%20acr
oss%20your%20Amazon%20Review%20Extractor%20and%20Sentiment%20Analysis%20WebApp%20and%20would%2
0love%20to%20connect%20to%20learn%20more%20about%20it.%20Let's%20connect!)
""", unsafe_allow_html=True)
```

Screenshot:

🌟 Amazon Product Review Analysis Tool 🌟

Welcome to the cutting-edge sentiment analysis platform! 🚀

Powered by VADER Sentiment Model, this tool decodes and understands Amazon product reviews with precision.

🔍 How It Works:

1️⃣ **Extract Reviews** – Enter an Amazon product link to retrieve customer feedback.

2️⃣ **Analyze Sentiment** – Process extracted reviews to determine sentiment (Positive, Neutral, Negative).

3️⃣ **Visualize Results** – View interactive charts and insights based on analyzed sentiments.

✨ Get started by selecting an option from the sidebar! ✨

👨‍💼 **Developed by Ashish Bonde**
💬 **Interested in the Amazon Review Extractor and Sentiment Analysis WebApp?**
📇 Connect with me on :
LinkedIn
GitHub Profile
WhatsApp

Select an Option

🏠 Home

Select an Option

🛒🧾 Amazon Product Review E...

Amazon Product Review Extractor

Enter an Amazon product link to extract and analyze customer reviews efficiently.

Enter Link and then press enter:

Amazon's website structure changes frequently, which may impact review extraction. You may need to click 'Extract' button multiple times.

Before proceeding with Sentiment Analysis on the downloaded CSV file, ensure the data is cleaned, properly formatted, and free of empty values for accurate results.

Download as CSV

👨‍💼 **Developed by Ashish Bonde**
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📇 Connect with me on :
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WhatsApp

Enter an Amazon product link to extract and analyze customer reviews efficiently.

Enter Link and then press enter:

https://www.amazon.in/Philips-Battery-Powered-SkinProtect-Trimmer/dp/B0BXNVPRGS?ref_=Oct_d_obs_d_26953424031_1&pd_rd_w=mbf8n&content-id=amzn1.sym.a0183515-a5!

Amazon's website structure changes frequently, which may impact review extraction. You may need to click 'Extract' button multiple times.

Before proceeding with Sentiment Analysis on the downloaded CSV file, ensure the data is cleaned, properly formatted, and free of empty values for accurate results.

Press 'Extract' to fetch reviews.

Extract

Enter the next page URL and press Enter

Download as CSV

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🔌 Connect with me on :
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WhatsApp

Amazon Product Review Extractor

Enter an Amazon product link to extract and analyze customer reviews efficiently.

Enter Link and then press enter:

https://www.amazon.in/Lenovo-Smartchoice-Tab-M11-Octa-Core/dp/B0DY1NV6GV/ref=lp_4363894031_1_5?pf_rd_p=9e034799-55e2-4ab2-b0d0-eb42f95b2d05&pf_rd_r=DQZ1WRN4I

Amazon's website structure changes frequently, which may impact review extraction. You may need to click 'Extract' button multiple times.

Before proceeding with Sentiment Analysis on the downloaded CSV file, ensure the data is cleaned, properly formatted, and free of empty values for accurate results.

Press 'Extract' to fetch reviews.

Extract

Enter the next page URL and press Enter

Download as CSV

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💬 Interested in the Amazon Review Extractor and Sentiment Analysis WebApp?
🔌 Connect with me on :
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WhatsApp

🍪 🖥 Amazon Product Review E… ⌄

Reset Data

Amazon Product Review Extractor

Enter an Amazon product link to extract and analyze customer reviews efficiently.

Enter Link and then press enter:

https://www.amazon.in/Lenovo-Smartchoice-Tab-M11-Octa-Core/dp/B0DY1NV6GV/ref=lp_4363894031_1_5?pf_rd_p=9e034799-55e2-4ab2-b0d0-eb42f95b2d05&pf_rd_r=DQZ1WRN4H

Amazon's website structure changes frequently, which may impact review extraction. You may need to click 'Extract' button multiple times.

Before proceeding with Sentiment Analysis on the downloaded CSV file, ensure the data is cleaned, properly formatted, and free of empty values for accurate results.

Press 'Extract' to fetch reviews.

Extract

Reviews extracted successfully!

⬇ 🔍 ⛶

	Name	Date	Star_Rating	Short_Review	Long_Review
0	-	-	-	-	-
1	Lenovo Tab M11 |Wi-Fi	4 GB RAM, 64 GB ROM|11 Inch Screen| 90 Hz, 72% NTSC, FHD Display| Qu	None	4.1 out of 5 stars	None	None

Enter the next page URL and press Enter

Download as CSV

📊 Review Analysis ⌄

Amazon Product Review Analysis

Upload a CSV file, enter a Google Sheet link, or use extracted Amazon reviews for analysis.

Select Input Method

Extracted Amazon Reviews ⌄

Successfully loaded data:

	Name	Date	Star_Rating	Short_Review	Long_Review
0	-	-	-	-	-
1	Lenovo Tab M11 |Wi-Fi	4 GB RAM, 64 GB ROM|11 Inch Screen| 90 Hz, 72% NTSC, FHD Display| Qu	None	4.1 out of 5 stars	None	None

Choose Column

Name ⌄

Column to analyze: Name

Analyze

👨 **Developed by Ashish Bonde**
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GitHub Profile
WhatsApp

Amazon Product Review Analysis

Upload a CSV file, enter a Google Sheet link, or use extracted Amazon reviews for analysis.

Select Input Method

Google Sheet Link ▾

Confirm the sheet link is proper and sharing settings allow public access. 🚀 This helps prevent data parsing issues!

Enter Google Sheet link and press Enter

https://docs.google.com/spreadsheets/d/1JE8PvWbn-sLlmkWc93ZR8OA6vvzXjkbzY5IKuEdzc7k/edit?usp=sharing

✅ Google Sheets link converted for CSV export!

Google Sheet successfully read with encoding: utf-8

Successfully loaded data:

	Timestamp	Name	Age	Gender	Language	Opinion
0	2/19/2025 19:47:28	USER 1	30	Male	English	Good one
1	2/19/2025 19:47:55	User2	40	Female	Hindi	horrible

Choose Column

Timestamp ▾

Column to analyze: Timestamp

Analyze

Amazon Product Review Analysis

Upload a CSV file, enter a Google Sheet link, or use extracted Amazon reviews for analysis.

Select Input Method

Upload CSV File ▾

Upload a CSV file

Drag and drop file here
Limit 200MB per file • CSV   Browse files

📄 External_Amazon_Review.csv 49.0MB   ✕

CSV file successfully read with encoding: utf-8

Successfully loaded data:

	id	name	asins	brand	categories
0	AVqkIhwDv8e3D1O-lebb	All-New Fire HD 8 Tablet, 8 HD Display, Wi-Fi, 16 GB - Includes Special Offers, Magenta	B01AHB9CN2	Amazon	Electronics,iPad & Tablets,All Tablets,Fire Tablets,Tablets,Cc
1	AVqkIhwDv8e3D1O-lebb	All-New Fire HD 8 Tablet, 8 HD Display, Wi-Fi, 16 GB - Includes Special Offers, Magenta	B01AHB9CN2	Amazon	Electronics,iPad & Tablets,All Tablets,Fire Tablets,Tablets,Cc
2	AVqkIhwDv8e3D1O-lebb	All-New Fire HD 8 Tablet, 8 HD Display, Wi-Fi, 16 GB - Includes Special Offers, Magenta	B01AHB9CN2	Amazon	Electronics,iPad & Tablets,All Tablets,Fire Tablets,Tablets,Cc
3	AVqkIhwDv8e3D1O-lebb	All-New Fire HD 8 Tablet, 8 HD Display, Wi-Fi, 16 GB - Includes Special Offers, Magenta	B01AHB9CN2	Amazon	Electronics,iPad & Tablets,All Tablets,Fire Tablets,Tablets,Cc
4	AVqkIhwDv8e3D1O-lebb	All-New Fire HD 8 Tablet, 8 HD Display, Wi-Fi, 16 GB - Includes Special Offers, Magenta	B01AHB9CN2	Amazon	Electronics,iPad & Tablets,All Tablets,Fire Tablets,Tablets,Cc
5	AVqkIhwDv8e3D1O-lebb	All-New Fire HD 8 Tablet, 8 HD Display, Wi-Fi, 16 GB - Includes Special Offers, Magenta	B01AHB9CN2	Amazon	Electronics,iPad & Tablets,All Tablets,Fire Tablets,Tablets,Cc
6	AVqkIhwDv8e3D1O-lebb	All-New Fire HD 8 Tablet, 8 HD Display, Wi-Fi, 16 GB - Includes Special Offers, Magenta	B01AHB9CN2	Amazon	Electronics,iPad & Tablets,All Tablets,Fire Tablets,Tablets,Cc
7	AVqkIhwDv8e3D1O-lebb	All-New Fire HD 8 Tablet, 8 HD Display, Wi-Fi, 16 GB - Includes Special Offers, Magenta	B01AHB9CN2	Amazon	Electronics,iPad & Tablets,All Tablets,Fire Tablets,Tablets,Cc
8	AVqkIhwDv8e3D1O-lebb	All-New Fire HD 8 Tablet, 8 HD Display, Wi-Fi, 16 GB - Includes Special Offers, Magenta	B01AHB9CN2	Amazon	Electronics,iPad & Tablets,All Tablets,Fire Tablets,Tablets,Cc
9	AVqkIhwDv8e3D1O-lebb	All-New Fire HD 8 Tablet, 8 HD Display, Wi-Fi, 16 GB - Includes Special Offers, Magenta	B01AHB9CN2	Amazon	Electronics,iPad & Tablets,All Tablets,Fire Tablets,Tablets,Cc

Select an Option

📊 Review Analysis ▾

	ourceURLs	reviews.text	reviews.title
0	iews.bestbuy.com/3545/5620406/reviews.htm?format=embedded&page=2	This product so far has not disappointed. My children love to use it and I like the abili	Kindle
1	iews.bestbuy.com/3545/5620406/reviews.htm?format=embedded&page=2	great for beginner or experienced person. Bought as a gift and she loves it	very fast
2	iews.bestbuy.com/3545/5620406/reviews.htm?format=embedded&page=2	Inexpensive tablet for him to use and learn on, step up from the NABI. He was thrilled	Beginner tablet for our 9 year old son.
3	iews.bestbuy.com/3545/5620406/reviews.htm?format=embedded&page=2	I've had my Fire HD 8 two weeks now and I love it. This tablet is a great value.We are F	Good!!!
4	iews.bestbuy.com/3545/5620406/reviews.htm?format=embedded&page=2	I bought this for my grand daughter when she comes over to visit. I set it up with her a	Fantastic Tablet for kids
5	iews.bestbuy.com/3545/5620406/reviews.htm?format=embedded&page=2	This amazon fire 8 inch tablet is the perfect size. I purchased it for my husband so tha	Just what we expected
6	iews.bestbuy.com/3545/5620406/reviews.htm?format=embedded&page=2	Great for e-reading on the go, nice and light weight, and for the price point given, defi	great e-reader tablet
7	iews.bestbuy.com/3545/5620406/reviews.htm?format=embedded&page=2	I gave this as a Christmas gift to my inlaws, husband and uncle. They loved it and hov	Great for gifts
8	iews.bestbuy.com/3545/5620406/reviews.htm?format=embedded&page=1	Great as a device to read books. I like that it links with my borrowed library e-books. S	Great for reading
9	iews.bestbuy.com/3545/5620406/reviews.htm?format=embedded&page=1	I love ordering books and reading them with the reader.	Great and lightweight reader

Choose Column

id	▾

reviews.numHelpful

reviews.rating

reviews.sourceURLs

reviews.text

reviews.title

reviews.userCity

reviews.userProvince

reviews.username

	ourceURLs	reviews.text	reviews.title
0	iews.bestbuy.com/3545/5620406/reviews.htm?format=embedded&page=2	This product so far has not disappointed. My children love to use it and I like the abili	Kindle
1	iews.bestbuy.com/3545/5620406/reviews.htm?format=embedded&page=2	great for beginner or experienced person. Bought as a gift and she loves it	very fast
2	iews.bestbuy.com/3545/5620406/reviews.htm?format=embedded&page=2	Inexpensive tablet for him to use and learn on, step up from the NABI. He was thrilled	Beginner tablet for our 9 year old son.
3	iews.bestbuy.com/3545/5620406/reviews.htm?format=embedded&page=2	I've had my Fire HD 8 two weeks now and I love it. This tablet is a great value.We are F	Good!!!
4	iews.bestbuy.com/3545/5620406/reviews.htm?format=embedded&page=2	I bought this for my grand daughter when she comes over to visit. I set it up with her a	Fantastic Tablet for kids
5	iews.bestbuy.com/3545/5620406/reviews.htm?format=embedded&page=2	This amazon fire 8 inch tablet is the perfect size. I purchased it for my husband so tha	Just what we expected
6	iews.bestbuy.com/3545/5620406/reviews.htm?format=embedded&page=2	Great for e-reading on the go, nice and light weight, and for the price point given, defi	great e-reader tablet
7	iews.bestbuy.com/3545/5620406/reviews.htm?format=embedded&page=2	I gave this as a Christmas gift to my inlaws, husband and uncle. They loved it and hov	Great for gifts
8	iews.bestbuy.com/3545/5620406/reviews.htm?format=embedded&page=1	Great as a device to read books. I like that it links with my borrowed library e-books. S	Great for reading
9	iews.bestbuy.com/3545/5620406/reviews.htm?format=embedded&page=1	I love ordering books and reading them with the reader.	Great and lightweight reader

Choose Column

reviews.text	▾

Column to analyze: reviews.text

Analyze

🧑 **Developed by Ashish Bonde**
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LinkedIn
GitHub Profile
WhatsApp

Column to analyze: reviews.text

Analyze

Performing sentiment analysis...

Sentiment Analysis Results:

⬇ 🔍 ⤢

	reviews.text	reviews.title	reviews.userCity	reviews.userProvince	reviews.username	Sentiment
0	his product so far has not disappointed. My children love to use it and I like the abili	Kindle	None	None	Adapter	Positive
1	reat for beginner or experienced person. Bought as a gift and she loves it	very fast	None	None	truman	Positive
2	expensive tablet for him to use and learn on, step up from the NABI. He was thrilled	Beginner tablet for our 9 year old son.	None	None	DaveZ	Neutral
3	ve had my Fire HD 8 two weeks now and I love it. This tablet is a great value.We are F	Good!!!	None	None	Shacks	Positive
4	bought this for my grand daughter when she comes over to visit. I set it up with her i	Fantastic Tablet for kids	None	None	explore42	Positive
5	his amazon fire 8 inch tablet is the perfect size. I purchased it for my husband so tha	Just what we expected	None	None	tklit	Positive
6	reat for e-reading on the go, nice and light weight, and for the price point given, defi	great e-reader tablet	None	None	Droi	Positive
7	gave this as a Christmas gift to my inlaws, husband and uncle. They loved it and how	Great for gifts	None	None	Kacy	Positive
8	reat as a device to read books. I like that it links with my borrowed library e-books. S	Great for reading	None	None	Weebee	Positive
9	love ordering books and reading them with the reader.	Great and lightweight reader	None	None	RoboBob	Positive

Sentiment analysis completed. Results saved to 'Sentiment_Analysis_Results.csv'.

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📊 Result Visualization ⌄

Result Visualization

Visualize the sentiment analysis results.

Sentiment Analysis Results:

⬇ 🔍 ⤢

	reviews.text	reviews.title	reviews.userCity	reviews.userProvince	reviews.username	Sentiment
0	his product so far has not disappointed. My children love to use it and I like the abili	Kindle	None	None	Adapter	Positive
1	reat for beginner or experienced person. Bought as a gift and she loves it	very fast	None	None	truman	Positive
2	expensive tablet for him to use and learn on, step up from the NABI. He was thrilled	Beginner tablet for our 9 year old son.	None	None	DaveZ	Neutral
3	ve had my Fire HD 8 two weeks now and I love it. This tablet is a great value.We are F	Good!!!	None	None	Shacks	Positive
4	bought this for my grand daughter when she comes over to visit. I set it up with her i	Fantastic Tablet for kids	None	None	explore42	Positive
5	his amazon fire 8 inch tablet is the perfect size. I purchased it for my husband so tha	Just what we expected	None	None	tklit	Positive
6	reat for e-reading on the go, nice and light weight, and for the price point given, defi	great e-reader tablet	None	None	Droi	Positive
7	gave this as a Christmas gift to my inlaws, husband and uncle. They loved it and how	Great for gifts	None	None	Kacy	Positive
8	reat as a device to read books. I like that it links with my borrowed library e-books. S	Great for reading	None	None	Weebee	Positive
9	love ordering books and reading them with the reader.	Great and lightweight reader	None	None	RoboBob	Positive

Select Visualization Type

None ⌄

42 |oes all basic functions of a tablet. Hardcore users may want an iPad. | Good starter tablet | None | None | Stevedb | Neutral ▸

🚀 Select an Option

📊 Result Visualization ⌄

Select Visualization Type

Pie Chart ⌄

📷 ⛶

Sentiment Analysis

■ Positive
■ Neutral
■ Negative

22%

1.59%

76.4%

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📇 Connect with me on :
LinkedIn
GitHub Profile
WhatsApp

---

42 |oes all basic functions of a tablet. Hardcore users may want an iPad. | Good starter tablet | None | None | Stevedb | Neutral ▸

🚀 Select an Option

📊 Result Visualization ⌄

Select Visualization Type

Histogram ⌄

Choose Column

brand| ⌄

📷 🔍 ✛ ⊞ ⊟ ⛶ ⌂ ⛶

Sentiment Analysis

color
■ Positive
■ Neutral
■ Negative

👨‍💻 Developed by Ashish Bonde
💬 Interested in the Amazon Review Extractor and Sentiment Analysis WebApp?