

Text Analysis of ChatGPT User Reviews to Guide the Strategic Launch of the Google Pixel LLM Phone

By

Author(s)... who you are

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Executive Summary

This research aims to contribute to the strategic planning of Google for the launch of the Pixel LLM Phone – an AI-embedded phone that includes a Large Language Model (LLM) – by identifying the strengths and weaknesses of the ChatGPT app as observed in 40,000 user reviews collected from the Google Play Store. The goal of this analysis is to reveal trends and potential, as well as respond to threats that can urge the opportunity of the product and help the company to accommodate in the excessively competitive smartphone industry. The project follows the CRISP-DM (Cross-Industry Standard Process for Data Mining) methodology, ensuring a structured approach: from business context capture, data discovery, data cleaning, analysis, model assessment, to deployment of solutions derived from insights. Text data was preprocessed by converting them into lower cases, removing punctuation and stop words, and splitting them into tokens for analysis. The Orange data mining tools were used to perform analysis on the textual data with aims of identifying the sentiments of the customers, the topics and keywords that are most likely to interest the customers. To respond to vital themes, the analysis provides four arresting narratives. First, the positive keywords express what customers consider essential, such as “helpful,” “efficient,” and “user-friendly” and should be emphasized in advertisements to help Google maintain their competitiveness. Second, negative customer experiences reveal such trivial defects as app crashes, bugs, or non-uniform AI, which reaffirm the importance of testing and product reliability. Third, innovative opportunities emphasize user appreciation of such aspects as adaptive learning and the use of AI response and, thus, may point Google in the right direction by stressing that the company should focus on the product’s AI aspects. Finally, it is possible to evaluate the dynamics of users’ interaction with reviews of applications in terms of “Thumbs Up.” The analysis reveals that positively targeted keywords such as “helpful” and “amazing” are used in reviews that receive the highest engagement, while the sentiment increases over time and in connection with the new versions of the app. Recommendations include focusing on the user valued features while creating awareness on the market, fixing problems that affect reliability and stability of the product, incorporating new features such as the adaptive learning and user personalization features in future versions, and the establishment of a strong feedback system. By adopting such recommendations, Google can extend the pixel LLM phone as a market leader to advance in artificial intelligence technology smart phone and guarantee greater customer satisfaction, reliability and innovation while at the same time minimizing potential risks on sustainability and disruption. With these details, this report provides Google with the knowledge that will ensure that appropriate data-driven decisions are made in the marketing and launching of the Pixel LLM Phone for great success.

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Introduction

The purpose of this report is to **uncover actionable insights** from user reviews of ChatGPT using **text analytics**. The analysis will guide **Google** in understanding key opportunities, challenges, and emerging themes that are critical for the successful launch of the **Google Pixel LLM Phone**, a product integrated with a Large Language Model (LLM).

Context

Artificial Intelligence (AI) has become a driving force in modern technology, enabling natural and human-like interactions through applications like ChatGPT. As Google prepares to invest **\$1 billion** in launching the Pixel LLM Phone, strategic guidance is required to address:

- Positive user experiences and features to emphasize.
- Recurring issues and pain points to resolve.
- Opportunities for innovation and engagement.
- Risks related to sustainability, disruption, and data ethics.

The insights derived from this project will ensure that Google can make informed decisions to deliver a **competitive, user-centered product** that meets customer expectations and mitigates risks.

Importance of the Storytelling Framework

The storytelling framework plays a crucial role in presenting the results of text analytics. By framing the findings into **clear and engaging narratives**, the framework:

1. Translates complex analytical results into **actionable insights**.
2. Aligns technical outcomes with **business objectives**.
3. Enables stakeholders to make **evidence-driven decisions**.

Each story in this report will follow a structured approach:

- **Problem/Question:** Define the focus area.
- **Analysis:** Perform text analytics to uncover patterns and insights.
- **Insights:** Present the findings in an understandable way.
- **Recommendations:** Provide solutions to address opportunities or challenges.
- **Pressing Questions:** Highlight concerns related to sustainability, disruption, or risks.

Methodology

Overview of CRISP-DM Methodology

The **CRISP-DM (Cross-Industry Standard Process for Data Mining)** methodology provides the foundation for this report, ensuring a structured and systematic approach to analyzing user reviews. The six stages of CRISP-DM inform the contents of this report as follows:

1. **Business Understanding:** Define Google's objectives and the key questions to address through text analytics.
2. **Data Understanding:** Explore the dataset of 40,000 ChatGPT user reviews to identify relevant fields (e.g., comments, ratings, thumbs-up).
3. **Data Preparation:** Clean and preprocess the textual data to ensure it is ready for analysis (e.g., removing stopwords, tokenization).
4. **Modeling:** Apply text analytics techniques such as sentiment analysis, topic modeling, and keyword extraction.
5. **Evaluation:** Assess the results to ensure they align with Google's business goals.
6. **Deployment:** Present the findings through four **actionable stories** that address Google's strategic priorities.

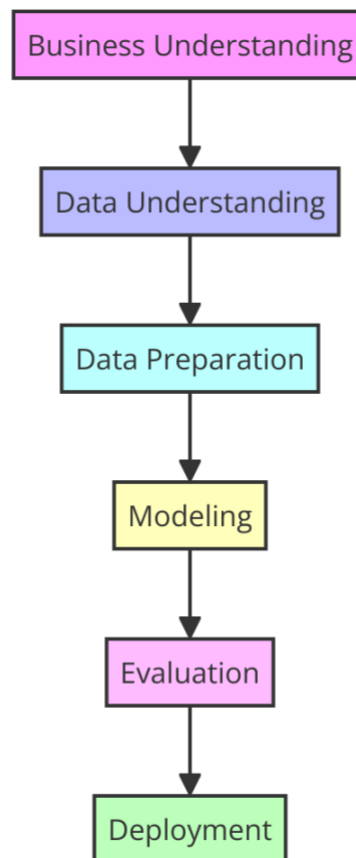


Figure 1: CRISP-DM Processes

Business Understanding

Business Objectives

The primary objective of this text analytics project is to assist **Google** in making informed strategic decisions for the launch of the **Google Pixel LLM Phone**. By analyzing user feedback from ChatGPT app reviews, the project aims to:

1. **Identify opportunities:** Highlight features and positive sentiments that users value.
2. **Address challenges:** Detect recurring complaints and negative experiences.
3. **Propose innovations:** Uncover emerging opportunities based on user expectations.
4. **Support engagement:** Analyze trends in user interactions to improve customer satisfaction.

These objectives will guide Google in developing a product that is competitive, user-friendly, and aligned with market demands.

Current Business Situation

Google is preparing to invest **\$1 billion** in launching its **Pixel LLM Phone**, which integrates a Large Language Model (LLM) to provide an AI-driven user experience. While the technology promises to revolutionize smartphone interactions, several challenges and risks need to be addressed:

1. **Market Competition**

The smartphone and AI markets are highly competitive, with rivals introducing similar AI-driven features.

2. **User Expectations**

Consumers increasingly demand reliable, efficient, and innovative AI products. Understanding user needs and complaints is essential to delivering a standout product.

3. **Technical Challenges**

Recurring issues such as app crashes, bugs, and inconsistent AI performance can harm user satisfaction.

4. **Disruption Risks**

Integrating LLM technology at scale introduces concerns regarding sustainability, ethical risks, and unforeseen disruptions.

To address these challenges, Google requires a **data-driven strategy** based on insights from user reviews, ensuring the Pixel LLM Phone meets user expectations while mitigating risks.

Business Success Criteria

The success of this project will be evaluated using **SMART (Specific, Measurable, Achievable, Realistic, Time-Bound)** criteria:

1. **Specific:**

- Provide actionable insights on user sentiments, recurring complaints, and innovative opportunities derived from user reviews.
- Deliver **four key stories** aligned with Google's business objectives:
 1. Positive customer sentiments.
 2. Negative experiences to address.
 3. Innovative opportunities for AI features.
 4. User engagement trends.

2. **Measurable:**

- Quantify findings through sentiment scores, topic analysis results, and keyword frequency metrics.
- Achieve high descriptive accuracy in identifying user priorities (e.g., >85% accuracy in sentiment classification).

3. **Achievable:**

- Leverage existing user feedback data (40,000 reviews) and proven text analytics tools (Orange workflows) to uncover meaningful insights.

4. **Realistic:**

- Align findings and recommendations with Google's technical capabilities and resources for the Pixel LLM Phone project.

5. **Time-Bound:**

- Deliver the final report, Orange workflows, and supporting data files before the specified deadline.

Key Business Outcome:

By achieving the above criteria, Google will gain a clear understanding of user priorities and challenges, enabling them to:

- Develop a product that meets market demands.
- Address potential risks and disruptions.
- Position the Pixel LLM Phone as a leading AI-powered smartphone.

Data Understanding

Initial Data Collection Report

The dataset for this text analytics project consists of **40,000 user reviews** of the **ChatGPT app** sourced from the Google Play Store. The data provides valuable insights into user experiences, satisfaction levels, and key challenges. Below is a detailed overview of the dataset:

Dataset Overview

The dataset contains the following key fields:

1. **Name:** The username of the reviewer.
2. **Rating:** The star rating given by the user, ranging from **1 (lowest)** to **5 (highest)**.
3. **Comment:** The textual content of the review, which reflects user sentiment, feedback, and experiences.
4. **Date:** The date on which the review was posted.
5. **Country:** The country code of the reviewer (*limited to 'us' for United States*).
6. **Thumbs Up:** The number of likes (engagement) received for the review.
7. **Review ID:** A unique identifier for each review.
8. **App Version:** The version of the app being reviewed.

Key Observations About the Dataset

- **Data Size:** The dataset includes **40,000 records**.
- **Missing Values:** The "App Version" field has some missing values (~3,500 entries).
- **Field Completeness:** All other fields, including "Comment" and "Rating," are complete and usable.
- **Focus Field:** The **Comment** field is the primary focus for this analysis as it contains valuable textual data for sentiment analysis, topic extraction, and keyword analysis.

Dataset Distribution

1. **Ratings:** Reviews are distributed across 1–5 star ratings, representing different user satisfaction levels.
2. **Engagement:** The "Thumbs Up" column shows user engagement levels, where higher likes indicate more impactful reviews.
3. **Temporal Trends:** The "Date" column allows for the analysis of trends in user sentiment and engagement over time.
4. **Textual Data:** The "Comment" column provides insights into user priorities, challenges, and feedback.

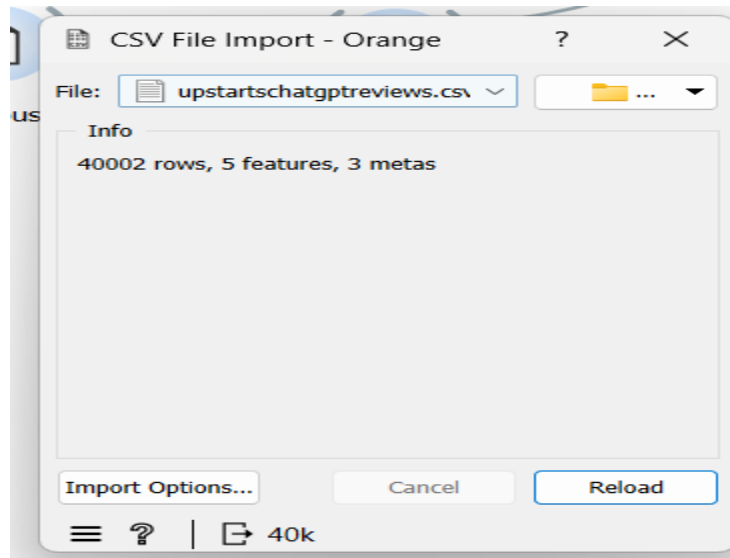
Initial Data Observations

- Positive reviews often contain keywords such as *"helpful," "efficient,"* and *"amazing."*
- Negative reviews highlight issues like *"bugs," "crashes,"* and *"errors."*
- High "Thumbs Up" counts are more common in detailed and positive reviews.

Data Preparation

Dataset Description

1. The dataset consists of **40,000 user reviews** of the ChatGPT app collected from the **Google Play Store**. The key fields include:
 1. **Name:** Username of the reviewer.
 2. **Rating:** Star ratings (1–5) provided by users.
 3. **Comment:** The textual content of user reviews (core for text analysis).
 4. **Date:** Date of the review.
 5. **Thumbs Up:** Number of likes indicating user engagement.
 6. **App Version:** App version reviewed (some missing values).

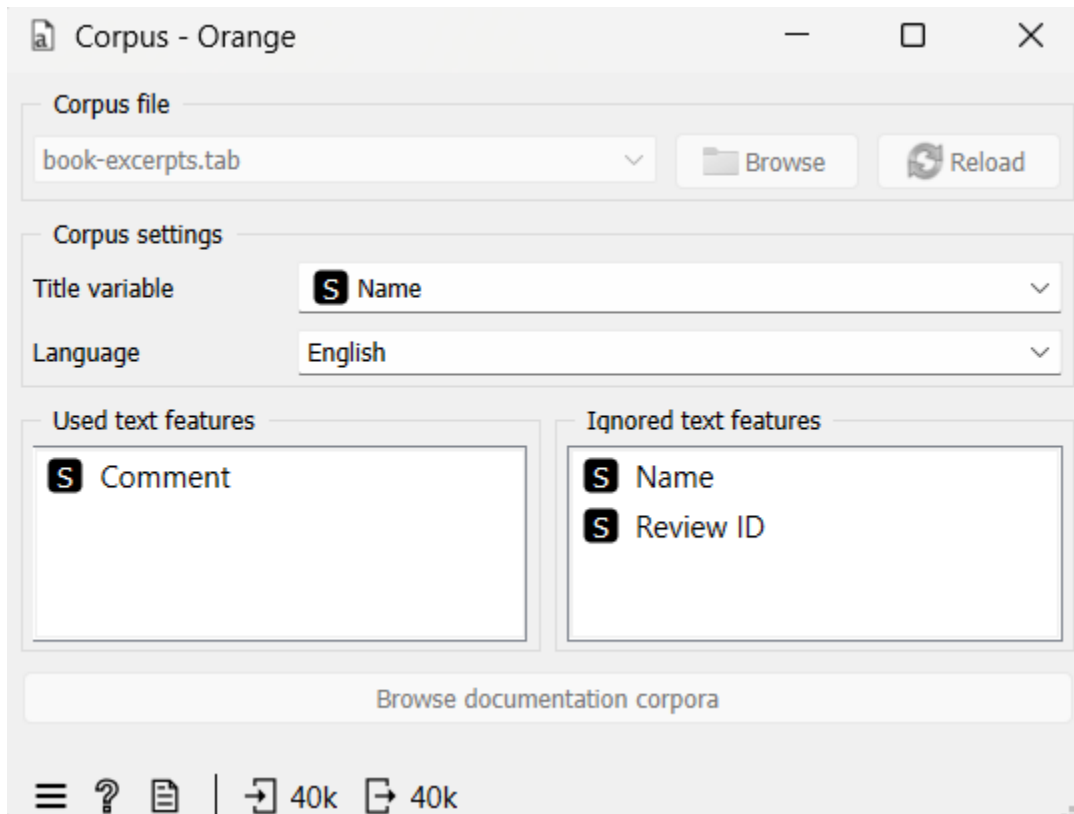


r1r1a	Name	Comment	Review ID	Rating	Date	Country	Thumbs Up	App Version
1	Faisal Khan	chat GPT are m...	a06411b9-8d8c...	5	2024-02-04 09:...	us	0	1.2024.080
2	Blue Life Karate...	it works perfect...	6799bf6b-a422...	5	2024-02-04 09:...	us	0	1.2024.080
3	OGUNDEYI Da...	very helpful	335b670f-05e8...	5	2024-02-04 09:...	us	0	1.2024.073
4	Risper Moraa	it's helpful in le...	fd19fb8-1371-...	5	2024-02-04 09:...	us	0	1.2024.004
5	Muhasin Must...	Great Discovery	3122ed8b-6410...	5	2024-02-04 09:...	us	0	1.2024.073
6	Sadia Sherazi	ChatGPT is like ...	4cfa2f00-3343-...	3	2024-02-04 09:...	us	0	?
7	ohmanRecords ...	The only best c...	165d9543-958e...	5	2024-02-04 09:...	us	0	?
8	Sisa Magula (M...	Great app indeed	4a64d334-efd4...	5	2024-02-04 09:...	us	0	1.2024.080
9	Isioma Godswill	It's been wonde...	423395be-355b...	4	2024-02-04 09:...	us	0	1.2024.073

Steps Taken to Prepare the Data

1. Importing CSV to Corpus

- The dataset (CSV format) was imported into **Orange Data Mining**, where the “**Comment**” field was extracted as a **corpus** for text analysis.
- Why Corpus?** Orange’s text mining tools require textual data to be processed as a corpus, enabling advanced preprocessing and analysis.



2. Text Preprocessing in Orange

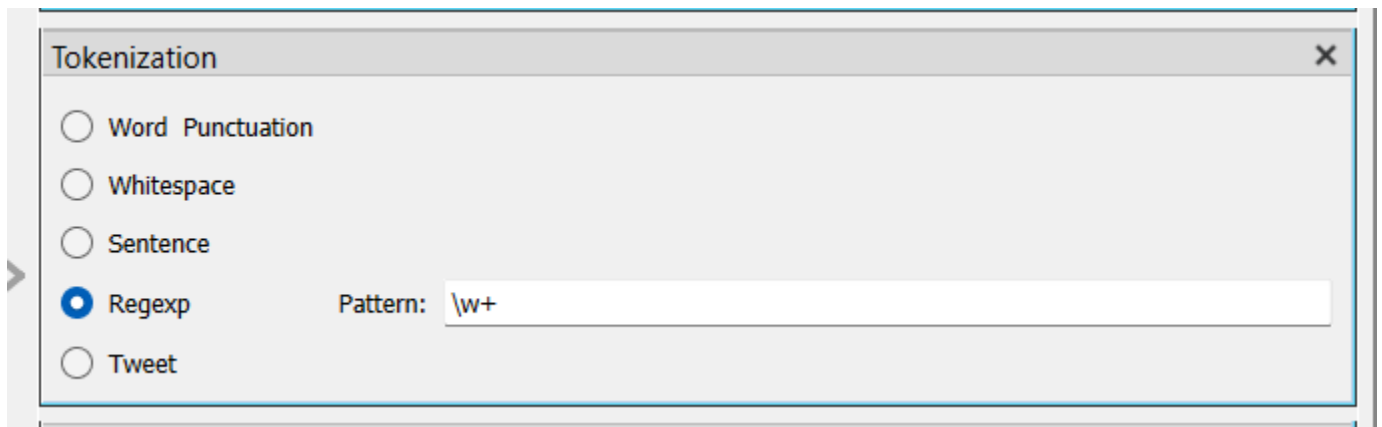
Once the text data was loaded as a corpus, the following preprocessing steps were applied using the **Text Preprocessing Widget** in Orange:

Lowercase Conversion

- All text was converted to lowercase to standardize the data.
- Example: “*Amazing App!*” → “*amazing app*”.

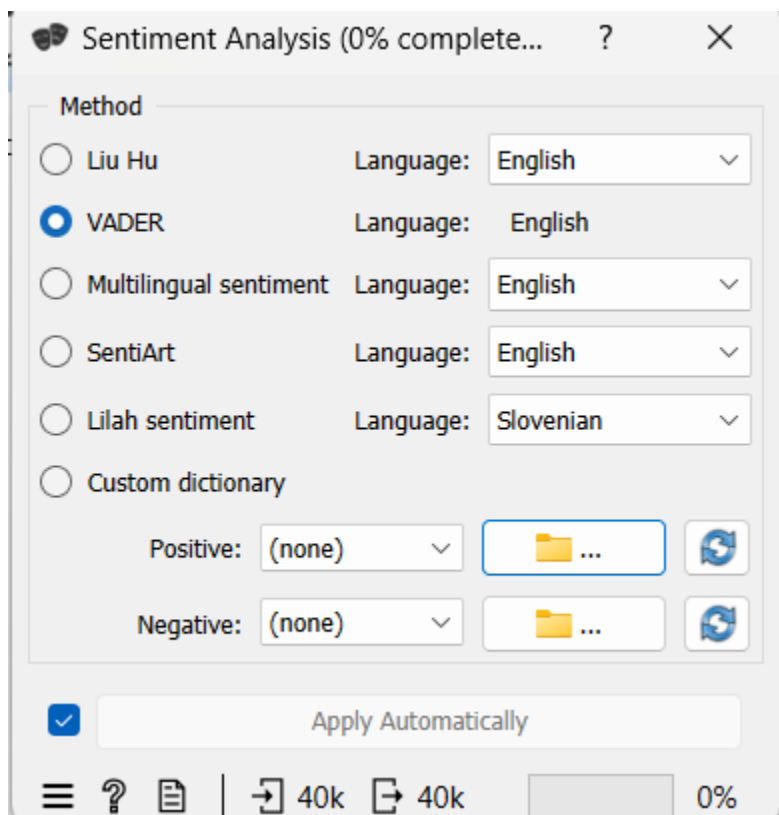
5. Tokenization

- Text was split into individual words (tokens) for further analysis.
- Example: “great app learning” → [“great,” “app,” “learning”].



Sentiment Analysis Widget

Used Varder method in the sentiment analysis of the given dataset corpus.



Keyword Extraction Widget using TD-IDF and York

The Four Key Analyses

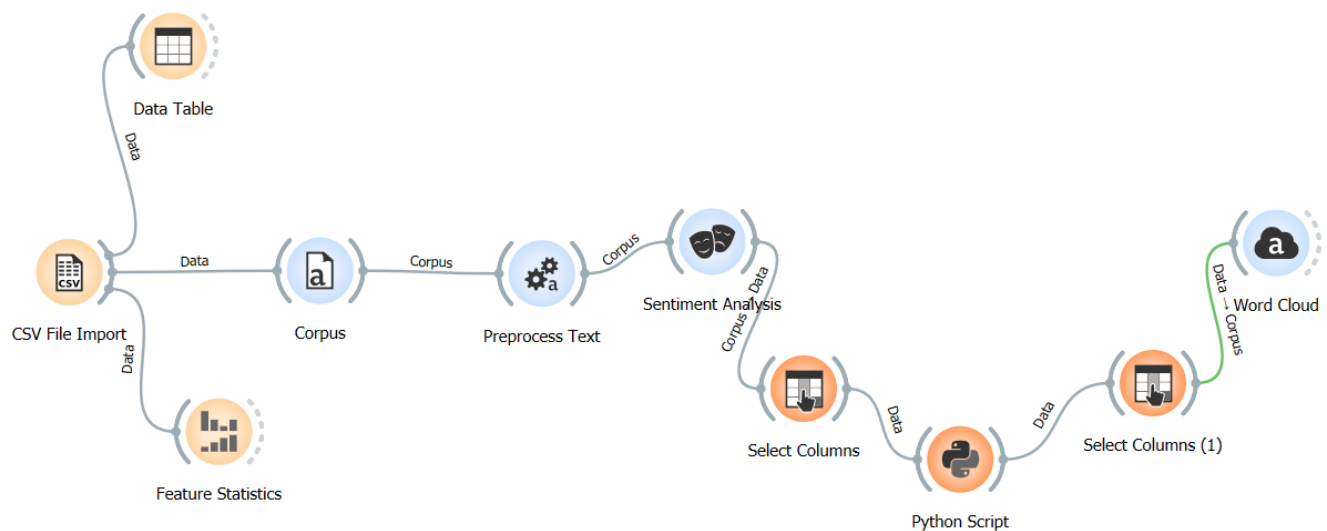
Story 1: Positive Customer Sentiments

Objective: Identify and analyze positive user experiences to highlight valuable features.

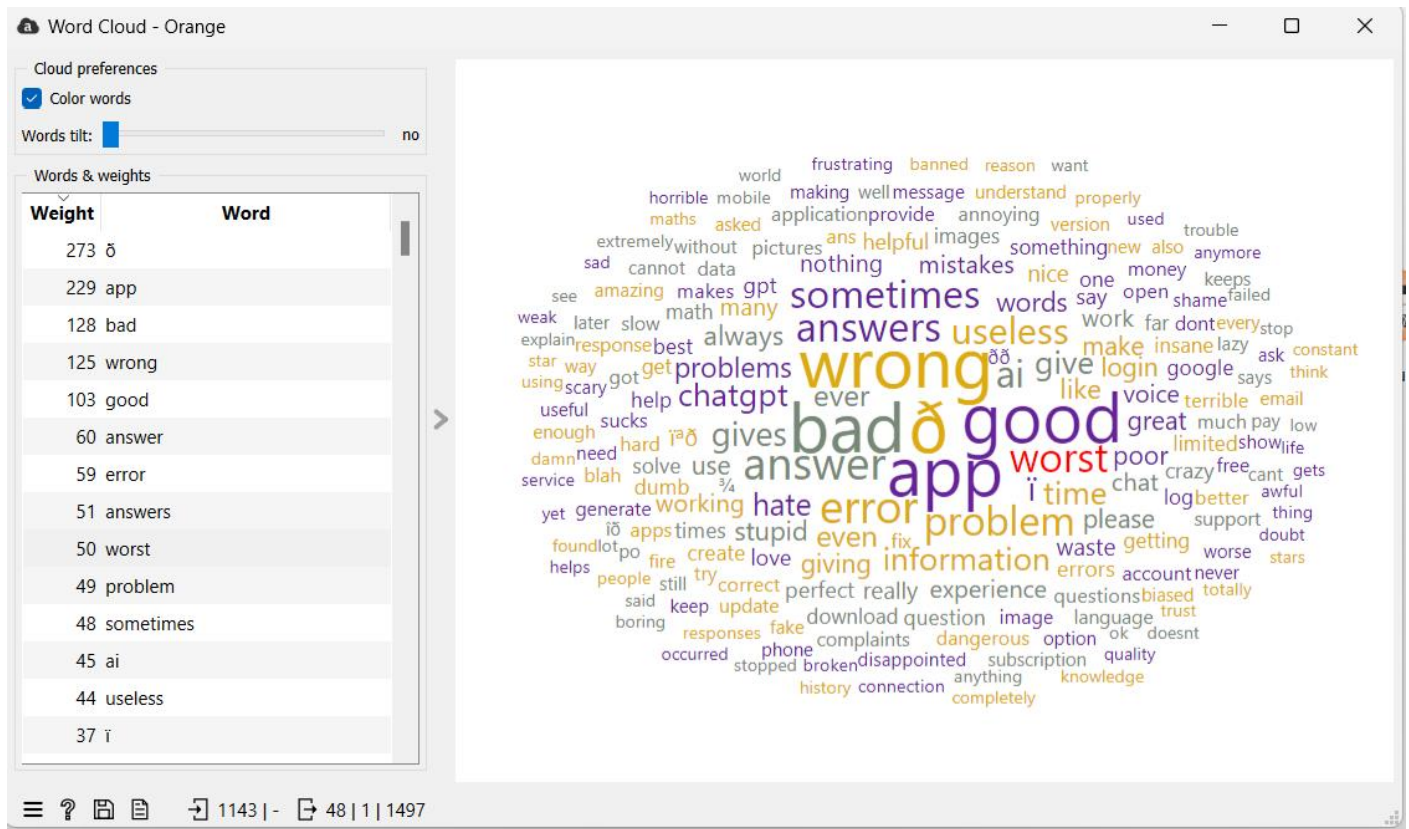
Workflow Steps

1. **Data Input:** Import the dataset (CSV file).
2. **Text Preprocessing:**
 - Convert text to lowercase.
 - Remove punctuation and stopwords.
 - Tokenize and lemmatize text.
3. **Sentiment Analysis:**
 - Use the **Sentiment Analysis Widget** to classify reviews as positive, neutral, or negative.
 - Filter for **positive reviews** only using python script.
4. **Word Cloud:** Generate a word cloud to visualize the most frequent positive keywords.

Workflow Representation



Key Insights



Data Table - Orange									
<div>Info</div> <div>100 instances 7 features (5.4 % missing data) No target variable. 1 meta attribute</div> <div>Variables</div> <div><input checked="" type="checkbox"/> Show variable labels (if present)</div> <div><input type="checkbox"/> Visualize numeric values</div> <div><input checked="" type="checkbox"/> Color by instance classes</div> <div>Selection</div> <div><input checked="" type="checkbox"/> Select full rows</div> <div>Restore Original Order</div> <div><input checked="" type="checkbox"/> Send Automatically</div>									
title	Words True words	TF-IDF	YAKE!	Topic 1	Topic 2	Topic 3	Topic 4	Topic 5	
1	app	0.0498746	0.0571428	0.59991	0.100026	0.100021	0.100021	0.100021	
2	good	0.0457128	0.0310198	0.59991	0.100026	0.100021	0.100021	0.100021	
3	ð	0.0453593	?	0.59991	0.100026	0.100021	0.100021	0.100021	
4	helpful	0.035367	0.0173983	0.100025	0.100028	0.100023	0.599901	0.100023	
5	best	0.032306	?	0.100025	0.100028	0.100023	0.599901	0.100023	
6	useful	0.0232755	?	0.59991	0.100026	0.100021	0.100021	0.100021	
7	amazing	0.0214813	0.00846723	0.59991	0.100026	0.100021	0.100021	0.100022	
8	love	0.0195604	0.0127095	0.100025	0.100028	0.100023	0.100023	0.599901	
9	great	0.0195309	0.0105702	0.100025	0.100028	0.100023	0.599901	0.100023	
10	ai	0.0194946	?	0.100025	0.100028	0.599901	0.100023	0.100023	
11	nice	0.0194617	0.00809213	0.100025	0.100028	0.100023	0.100023	0.599901	
12	really	0.0178674	?	0.100021	0.599922	0.100019	0.100019	0.100019	
13	like	0.0145146	?	0.100025	0.100028	0.100023	0.100023	0.599901	
14	chatgpt	0.0131646	0.00375858	0.100025	0.100028	0.100023	0.599901	0.100023	
15	ī	0.012993	?	0.59991	0.100026	0.100021	0.100021	0.100021	
16	awesome	0.0126805	0.00408021	0.100021	0.599922	0.100019	0.100019	0.100019	
17	ever	0.0124982	?	0.59991	0.100026	0.100021	0.100021	0.100021	
18	use	0.0122329	?	0.59991	0.100026	0.100021	0.100021	0.100021	
19	excellent	0.0118832	0.00244027	0.100021	0.599922	0.100019	0.100019	0.100019	
20	chat	0.0105979	0.00898966	0.100025	0.100028	0.100023	0.100023	0.599901	
21	application	0.0100151	0.00424382	0.59991	0.100026	0.100021	0.100021	0.100021	
22	students	0.00926913	0.0037203	0.59991	0.100026	0.100021	0.100021	0.100022	
23	much	0.00921315	?	0.100025	0.100028	0.599901	0.100023	0.100023	
24	gpt	0.0085884	0.00391085	0.100025	0.100028	0.100023	0.599901	0.100023	
25	help	0.0085131	?	0.100021	0.599922	0.100019	0.100019	0.100019	
26	helps	0.00849593	?	0.100021	0.599922	0.100019	0.100019	0.100019	
27	work	0.00818907	0.00670725	0.100025	0.100028	0.599901	0.100023	0.100023	
28	answer	0.00807921	0.00642633	0.100025	0.100028	0.599901	0.100023	0.100023	
29	voice	0.0079615	0.00709895	0.100025	0.100028	0.100023	0.100023	0.599901	
30	better	0.00737428	?	0.100025	0.100028	0.100023	0.599901	0.100023	
31	information	0.0073691	0.00689657	0.100025	0.100028	0.100023	0.599901	0.100023	
32	answers	0.00713092	0.00673686	0.100025	0.100028	0.599901	0.100023	0.100023	
33	thank	0.00688441	?	0.100025	0.100028	0.100023	0.599901	0.100023	
34	experience	0.00677341	0.00358625	0.100021	0.599921	0.100019	0.100019	0.100019	
35	easy	0.00675107	0.0041952	0.100025	0.100028	0.100023	0.100023	0.599901	

Key Insights: Dominant topics include *"app," "good," "helpful,"* and *"best"*

Story 3: Innovative Opportunities from Specific Features

Objective: Highlight innovative AI features that can provide a competitive advantage.

1. Workflow Steps:
1. Data Input:

Import the dataset (CSV file).
2. Text Preprocessing:

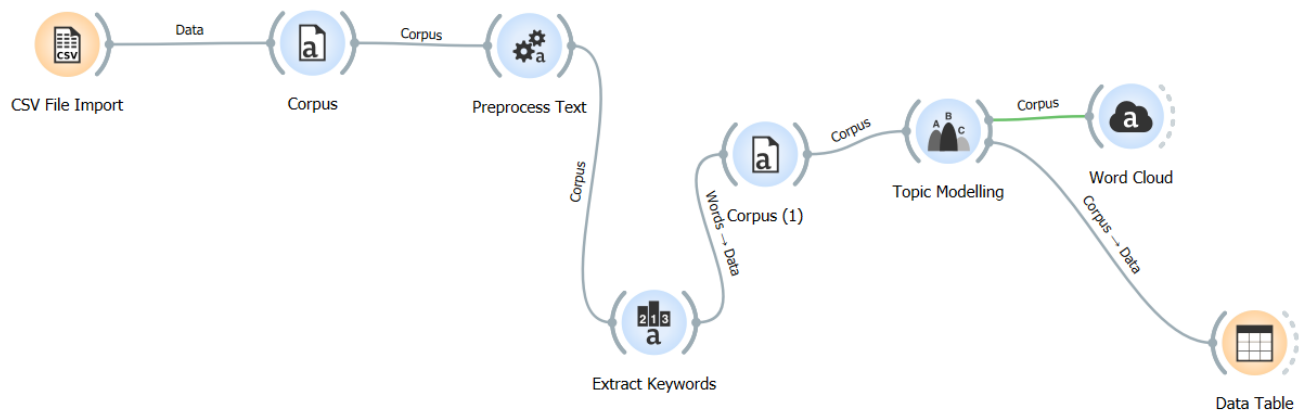
○ Apply the preprocessing steps to clean the text.
3. Keyword Extraction:

○ Use the **TF-IDF Widget** to extract keywords with the highest importance in positive reviews.
4. Topic Modelling:

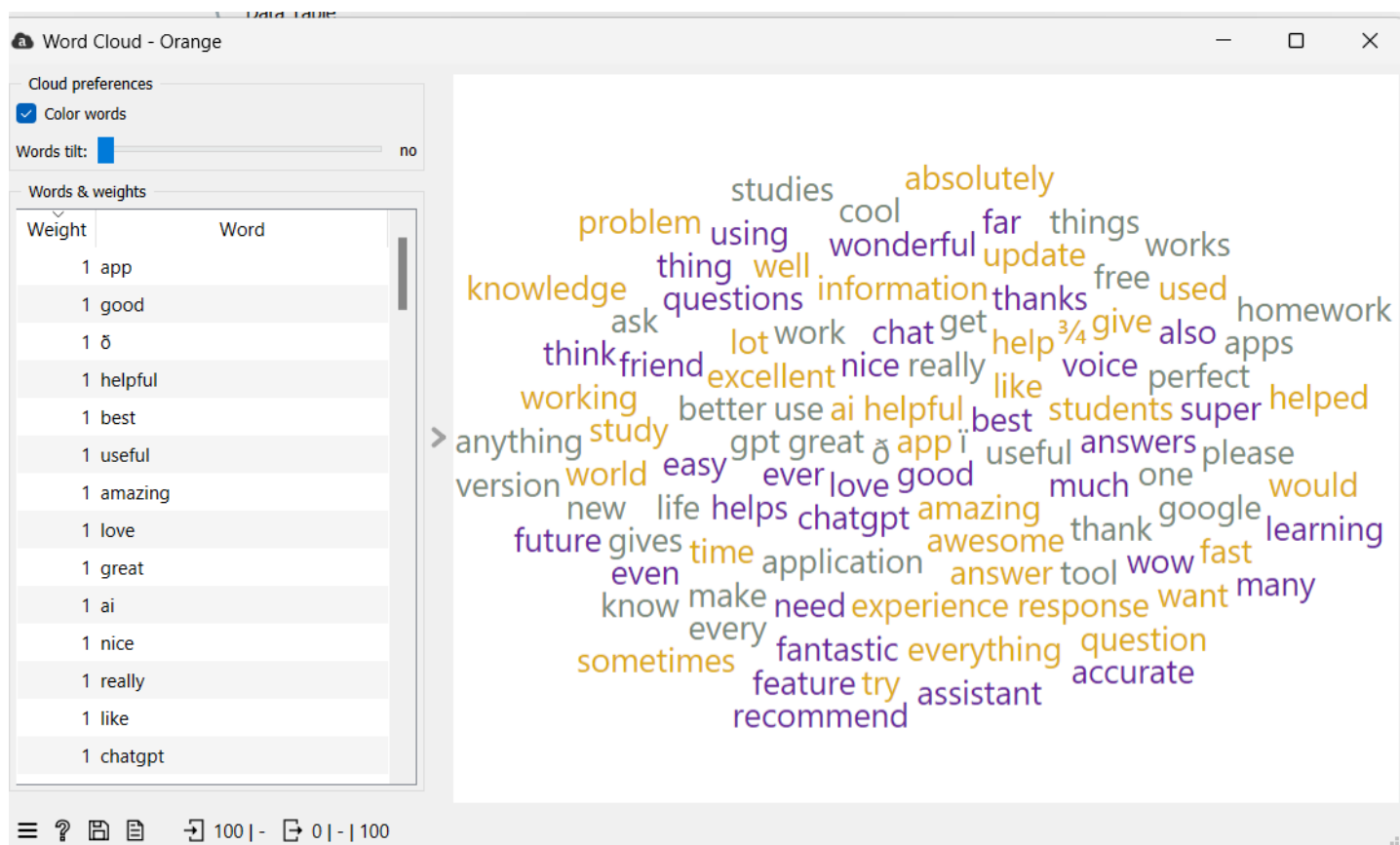
Run **Topic Modeling (LDA)** to identify themes related to AI features.
5. Word Cloud:

Generate a word cloud of keywords related to **innovation and AI adaptability**.

Workflow Representation



Results



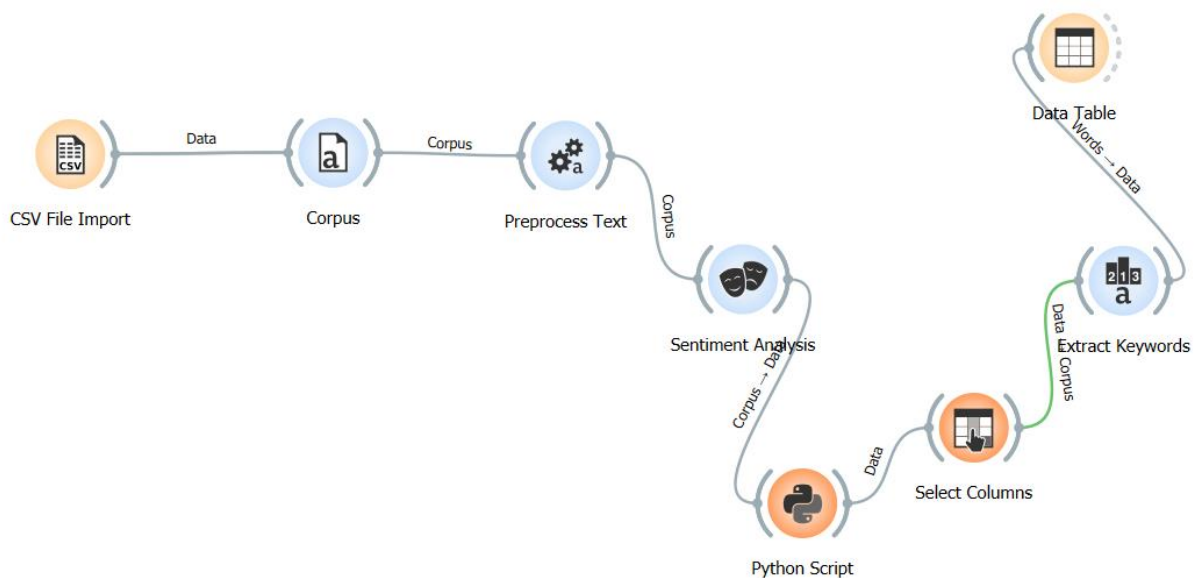
Key Insights: Features like *"natural learning," "adaptive responses,"* and *"AI efficiency"* are most valued by users.

Story 4: User Engagement and Feedback Trends

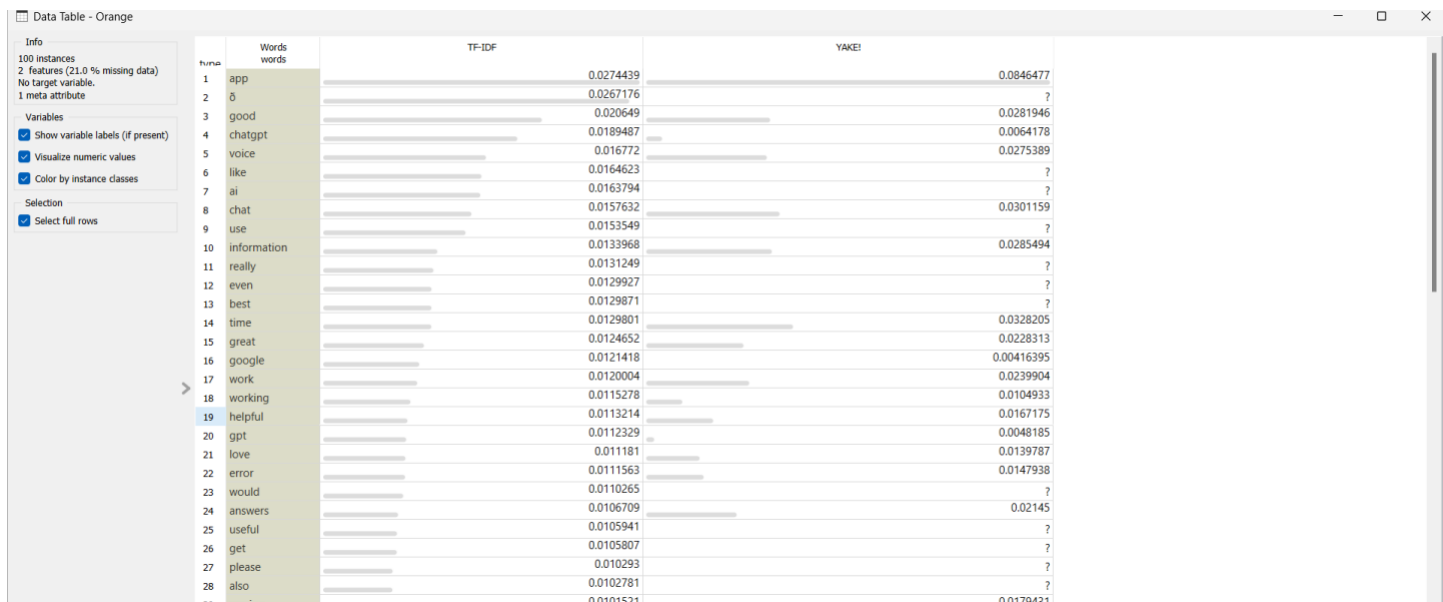
Objective: Analyze user engagement metrics (Thumbs Up) and temporal trends in reviews.

2. **Workflow Steps:**
3. **Data Input:** Import the dataset (CSV file).
4. **Text Preprocessing:** Clean the text data (lowercase, punctuation, stopwords).
5. **Sentiment Analysis:** Classify reviews into positive, neutral, or negative categories.
6. **Data Subsetting:** Filter reviews with the highest **Thumbs Up** values (top 10% of reviews).
7. **Time Analysis:** Use the **Date** field to analyze sentiment trends over time using the **Line Chart Widget**.
8. **Keyword Frequency:** Generate keywords from the most liked reviews using **TF-IDF**.
9. **Data Table:** Display trends, engagement levels, and keywords for top reviews.

Workflow Representation



Results



Key Insights: Highly liked reviews often mention *"helpful," "amazing,"* and *"easy to use."* Positive feedback increases with newer app versions.

Key Recommendation for Each Workflow

Key Recommendations for Each Narrative

Story 1: Positive Customer Sentiments

- **Key Recommendations:**
- Google should emphasize key features such as **ease of use, efficiency,** and **natural AI responses** in its marketing strategy to promote user satisfaction.
- Develop product messaging and campaigns that highlight how the Google Pixel LLM Phone provides a **helpful, efficient, and user-friendly AI experience.**
- **Pressing Questions:**
- **Sustainability:** How can Google maintain a consistent quality of user experience while scaling LLM technology?
- **Risk Management:** Can positive features be maintained without overloading system resources or compromising AI performance?

Story 2: Negative Customer Experiences

- **Key Recommendations:**
 - Address recurring issues such as **bugs, crashes, and inconsistent responses** by prioritizing product stability in development.
 - Deploy rigorous **testing** and **feedback loops** to detect and resolve technical issues before product release.
 - Improve AI error-handling mechanisms to ensure smoother user experiences.
 - **Pressing Questions:**
 - **Disruption:** What measures can Google take to minimize disruption from technical failures in AI integration?
 - **Risk Management:** How can Google mitigate reputational damage caused by recurring technical problems?
-

Story 3: Innovative Opportunities from Specific Features

- **Key Recommendations:**
 - Focus on developing features like **adaptive learning** and **personalized AI responses** to distinguish the Pixel LLM Phone from competitors.
 - Invest in further enhancing **AI efficiency**, such as response speed and contextual understanding, to improve the user experience.
 - Position the Pixel Phone as an **innovative AI-powered solution** for professionals and tech-savvy users.
 - **Pressing Questions:**
 - **Data Ethics:** How can Google ensure that personalization features are ethical and free from bias?
 - **Sustainability:** Will AI personalization increase energy demands, and how can this be mitigated?
-

Story 4: User Engagement and Feedback Trends

- **Key Recommendations:**
 - Google should establish a **user feedback system** to collect ongoing insights and improve customer satisfaction.
 - Promote the features most associated with positive reviews and high engagement (e.g., "helpful," "amazing," "easy to use").
 - Use **sentiment trends** and user engagement metrics to identify features that require improvement or innovation.
 - **Pressing Questions:**
 - **Sustainability:** How can Google ensure continuous improvements without increasing resource consumption?
 - **Risk Management:** How will Google manage user expectations in light of feedback trends over time?
-

Recommendations and Conclusion

Recommendations

The following key recommendations have been derived from the text analytics:

1. **Promote Positive Features**

Highlight user-valued features such as "helpful" and "efficient" to strengthen the product's market position.

2. **Address Recurring Issues**

Prioritize stability by resolving bugs, crashes, and technical concerns.

3. **Focus on Innovation**

Develop AI features that emphasize personalization, adaptive learning, and contextual responses.

4. **Enhance User Engagement**

Use feedback trends to improve product features and customer satisfaction continually.

Conclusion

- This report provides actionable insights based on user reviews of ChatGPT, using text analytics techniques such as **sentiment analysis**, **topic modelling**, and **keyword extraction**. The findings address both opportunities and challenges for Google as it prepares to launch the **Google Pixel LLM Phone**.
- By implementing these recommendations, Google can:
- Deliver a product that meets user expectations and minimizes risks.
- Leverage AI innovation to stand out in the competitive market.
- Build a feedback-driven system to sustain long-term success.
- The analyses and workflows presented in this report ensure that Google is equipped with data-driven insights to make informed decisions for the Pixel LLM Phone.

References

Add references

APPENDICES

Short User Guide on How to Use Workflows in Orange

Workflow 1: Positive Customer Sentiments

1. **Data Input:** Load the dataset using the **Data Input Widget**.
 2. **Text Preprocessing:**
 - Connect the **Text Preprocessing Widget**.
 - Apply **lowercase conversion**, **stopwords removal**, and **punctuation removal**.
 3. **Sentiment Analysis:** Use the **Sentiment Analysis Widget** to classify reviews.
 4. **Python Script:** Filter rows where sentiment is positive.
 5. **Word Cloud:** Generate a word cloud to visualize frequently used keywords.
 6. **Data Table:** Display results.
-

Workflow 2: Negative Customer Experiences

1. **Data Input:** Load the dataset.
 2. **Text Preprocessing:** Apply text cleaning (lowercase, stopwords removal, etc.).
 3. **Sentiment Analysis:** Classify reviews into **positive**, **neutral**, and **negative** categories.
 4. **Python Script:** Filter for negative reviews.
 5. **Word Cloud:** Generate a word cloud to identify key pain points.
 6. **Data Table:** Display filtered results.
-

Workflow 3: Innovative Opportunities

1. **Data Input:** Load the dataset.
2. **Text Preprocessing:** Apply cleaning to prepare text data.
3. **TF-IDF Widget:** Extract keywords with high importance scores.
4. **Topic Modeling Widget:** Use **LDA** to identify dominant themes.
5. **Word Cloud:** Visualize themes related to innovative opportunities.
6. **Data Table:** Output results for further review.

Workflow 4: User Engagement Trends

1. **Data Input:** Load the dataset.
 2. **Text Preprocessing:** Clean text data (lowercase, stopwords removal, etc.).
 3. **Sentiment Analysis:** Classify reviews based on sentiment.
 4. **Python Script:** Filter reviews with the highest **Thumbs Up** (top 10%).
 5. **Line Chart Widget:** Use the **Date** column to plot sentiment trends over time.
 6. **TF-IDF Widget:** Extract keywords from the most engaging reviews.
 7. **Data Table:** View results.
-