

# using chatgpt to analyze text sentiment

using chatgpt to analyze text sentiment has emerged as a powerful and accessible method for businesses and individuals seeking to understand the emotional tone of written content. In today's data-driven world, discerning whether feedback, reviews, social media posts, or customer support interactions are positive, negative, or neutral is crucial for informed decision-making. This article will delve deep into the capabilities and applications of leveraging ChatGPT for sentiment analysis, exploring its advantages, practical implementation steps, and the nuances involved in achieving accurate and actionable insights. We will cover how to effectively prompt ChatGPT, interpret its outputs, and understand its limitations when performing text sentiment analysis.

Table of Contents

Understanding Sentiment Analysis

How ChatGPT Excels at Text Sentiment Analysis

Practical Steps for Using ChatGPT for Sentiment Analysis

Advanced Techniques and Considerations

Applications of Sentiment Analysis with ChatGPT

Limitations and Best Practices

## Understanding Sentiment Analysis

Sentiment analysis, also known as opinion mining, is the process of computationally identifying and categorizing opinions expressed in a piece of text, especially to determine whether the writer's attitude towards a particular topic, product, service, etc., is positive, negative, or neutral. It is a vital tool for understanding public opinion, brand perception, customer satisfaction, and market trends.

The core objective of sentiment analysis is to extract subjective information from objective data. This can range from analyzing a single tweet to processing vast datasets of customer reviews. Traditional methods often involved rule-based systems, machine learning algorithms trained on labeled datasets, and lexicon-based approaches. However, the advent of large language models (LLMs) like ChatGPT has revolutionized the accessibility and effectiveness of this field.

## How ChatGPT Excels at Text Sentiment Analysis

ChatGPT's sophisticated natural language processing (NLP) capabilities make

it exceptionally well-suited for sentiment analysis. Its vast training data allows it to understand context, nuances, sarcasm, and idiomatic expressions, which are often challenging for simpler NLP models. The model can grasp the underlying emotion or opinion conveyed, even when it's not explicitly stated.

One of the primary advantages of using ChatGPT is its versatility and ease of use. Unlike traditional methods that might require significant technical expertise and data preparation, ChatGPT can perform sentiment analysis with simple, well-crafted prompts. This democratization of sentiment analysis opens up possibilities for a wider range of users and applications.

## **Understanding Sentiment Polarity**

Sentiment analysis typically categorizes text into three main polarities: positive, negative, and neutral. ChatGPT can accurately identify these broad categories. For instance, it can distinguish between a glowing product review and a scathing one, or a neutral factual statement from an opinionated one.

Beyond these basic categories, ChatGPT can also provide a more granular understanding. It can often indicate the strength of the sentiment, suggesting whether a positive statement is mildly pleased or overwhelmingly ecstatic. Similarly, it can differentiate between mild dissatisfaction and strong disapproval, offering a richer analytical output.

## **Contextual Understanding and Nuance**

Human language is complex, filled with irony, sarcasm, and subtle emotional cues. ChatGPT's advanced architecture allows it to process these nuances far more effectively than many older sentiment analysis tools. For example, a phrase like "This is just great" could be genuinely positive or sarcastically negative, depending on the surrounding text and context.

By analyzing the surrounding words and the overall theme of the text, ChatGPT can infer the intended sentiment, even in ambiguous situations. This contextual understanding is crucial for accurate sentiment classification and for avoiding misinterpretations that could lead to flawed business decisions.

## **Practical Steps for Using ChatGPT for Sentiment Analysis**

Leveraging ChatGPT for text sentiment analysis is straightforward, primarily relying on effective prompt engineering. The key is to provide clear

instructions and relevant context to the model.

## **Crafting Effective Prompts**

The initial step involves formulating a clear and concise prompt. For example, a simple prompt could be: "Analyze the sentiment of the following text and classify it as positive, negative, or neutral: [Insert Text Here]." This direct approach is often sufficient for basic analysis.

For more detailed insights, prompts can be refined. Users can request specific aspects of the sentiment, such as identifying the dominant emotion or providing a score. An example of a more advanced prompt would be: "Analyze the sentiment of the following customer review. Provide a sentiment classification (positive, negative, neutral) and explain the reasoning behind your classification, highlighting any specific positive or negative aspects mentioned: [Insert Review Here]." This encourages ChatGPT to offer a more comprehensive and justified output.

## **Analyzing Different Text Types**

ChatGPT can be applied to a wide array of text types. For marketing teams, analyzing social media comments and online reviews is invaluable for gauging public reaction to campaigns or products. Customer service departments can use it to evaluate the tone of support tickets, helping to identify areas for agent training or process improvement.

Researchers can employ ChatGPT to analyze sentiment in academic papers, news articles, or survey responses. The ability to process large volumes of text efficiently makes it a powerful tool for qualitative data analysis, helping to uncover trends and patterns in public discourse or user feedback.

## **Interpreting ChatGPT's Output**

When interpreting ChatGPT's output, it's important to understand what is being presented. Typically, the model will provide a classification (e.g., "Positive") and often a brief explanation or justification. For sentiment scores, users might receive a numerical value, such as a score between -1 (most negative) and +1 (most positive).

Users should critically evaluate the model's output, especially for complex or ambiguous texts. While ChatGPT is highly capable, it's not infallible. Cross-referencing its analysis with human judgment or with results from other tools can provide a more robust understanding. The explanations provided by

ChatGPT can also be a valuable learning tool, helping users understand why a particular sentiment was assigned.

## **Advanced Techniques and Considerations**

While basic sentiment analysis with ChatGPT is accessible, there are advanced techniques to enhance accuracy and utility, particularly when dealing with large-scale projects or highly specific analytical needs.

### **Aspect-Based Sentiment Analysis**

A more sophisticated form of sentiment analysis is aspect-based sentiment analysis (ABSA). Instead of just determining the overall sentiment of a text, ABSA aims to identify the sentiment expressed towards specific aspects or features of a product or service. For example, in a restaurant review, ABSA can determine sentiment towards the food, the service, the ambiance, and the price separately.

Using ChatGPT for ABSA often requires more detailed prompts. A prompt for ABSA might look like: "Analyze the following product review. Identify the key features or aspects mentioned (e.g., battery life, screen quality, camera performance) and for each aspect, determine the sentiment expressed (positive, negative, neutral). Present the results in a structured format: [Insert Review Here]." This level of detail allows for much deeper insights into customer opinions.

### **Sentiment Intensity and Emotion Detection**

Beyond simple positive, negative, or neutral, sentiment can also be measured by its intensity or by identifying specific emotions. ChatGPT can be prompted to rate the intensity of a sentiment on a scale or to detect specific emotions like joy, anger, sadness, or surprise.

To achieve this, prompts can be structured as: "Analyze the sentiment of the following customer complaint. Classify the overall sentiment, and also identify the primary emotions expressed by the customer (e.g., frustration, disappointment, anger). Provide a score for the intensity of the negative sentiment on a scale of 1 to 5, where 5 is extremely intense: [Insert Text Here]." This provides a richer emotional landscape of the text.

## **Handling Ambiguity and Sarcasm**

ChatGPT's ability to handle ambiguity and sarcasm is one of its significant strengths in sentiment analysis. However, even advanced models can sometimes struggle. Context is king, and if the context provided within the prompt is insufficient, the model might misinterpret the sentiment.

To mitigate this, when analyzing ambiguous text, it's beneficial to provide more surrounding text or explicitly ask ChatGPT to consider potential sarcastic interpretations. For instance: "Given the following social media post, what is the most likely sentiment? Consider the possibility of sarcasm and explain your reasoning: [Insert Post Here]." The model's ability to explain its reasoning can help users identify potential misinterpretations.

## **Applications of Sentiment Analysis with ChatGPT**

The applications of using ChatGPT for sentiment analysis are vast and span numerous industries. Its ability to quickly process and interpret textual data provides actionable insights for organizations of all sizes.

### **Customer Feedback and Reviews**

Businesses heavily rely on customer feedback to improve products and services. ChatGPT can process thousands of online reviews, social media mentions, and survey responses to provide a holistic view of customer satisfaction. This helps in identifying common pain points, popular features, and areas requiring immediate attention.

For e-commerce businesses, analyzing product reviews can inform product development, marketing strategies, and customer support. Identifying trends in sentiment around specific product attributes can guide future product iterations.

### **Brand Monitoring and Reputation Management**

In the digital age, a company's online reputation is paramount. ChatGPT can continuously monitor social media platforms, news outlets, and blogs for mentions of a brand, product, or key personnel. By analyzing the sentiment of these mentions, businesses can proactively manage their brand image, respond to negative publicity, and capitalize on positive buzz.

Early detection of negative sentiment can allow a company to address issues

before they escalate into a crisis, thereby protecting their brand reputation and customer trust. Conversely, positive mentions can be leveraged in marketing campaigns.

## **Market Research and Competitive Analysis**

Understanding market trends and competitor performance is crucial for strategic planning. ChatGPT can analyze vast amounts of text data from market reports, industry forums, competitor reviews, and customer discussions to glean insights into market sentiment, consumer preferences, and competitive landscapes.

This analysis can reveal emerging trends, unmet needs in the market, and the perceived strengths and weaknesses of competitors. This information empowers businesses to make informed strategic decisions, identify new market opportunities, and refine their competitive positioning.

## **Limitations and Best Practices**

While ChatGPT is a powerful tool for sentiment analysis, it's essential to be aware of its limitations and adopt best practices to maximize its effectiveness.

## **Data Privacy and Security**

When using ChatGPT for sentiment analysis, especially with sensitive customer data, privacy and security are paramount. Users must be mindful of the data they input into the model and ensure compliance with relevant data protection regulations.

For proprietary or confidential information, consider using on-premises or private cloud deployments of LLMs if available, or ensure that the terms of service for the specific ChatGPT service used adequately address data handling and privacy concerns. Anonymizing or de-identifying data before input can also be a crucial step.

## **Accuracy and Bias**

Despite its advanced capabilities, ChatGPT can still make errors, especially with highly nuanced language, domain-specific jargon, or deeply embedded cultural references. The model can also exhibit biases present in its

training data, which could inadvertently influence sentiment analysis results.

To ensure accuracy, it is recommended to:

- Test prompts with a diverse range of texts.
- Validate ChatGPT's outputs with human review, especially for critical decisions.
- Be aware of potential biases and consider how they might affect the results.
- Refine prompts based on observed inaccuracies.

Always use ChatGPT as a tool to augment human analysis, rather than as a complete replacement. The human element is crucial for interpreting the context and implications of sentiment analysis results, especially in complex business scenarios.

## **Cost and Scalability**

While free versions of ChatGPT are available, extensive use, especially for large-scale analysis, may incur costs depending on the platform and API usage. Understanding the pricing models and optimizing API calls can be important for managing expenses.

For very large datasets, the processing time and cost can become significant factors. Exploring batch processing, efficient data chunking, and potentially specialized sentiment analysis APIs designed for high volume can be more cost-effective and scalable solutions.

The ability to effectively use ChatGPT for sentiment analysis offers a profound advantage in understanding the voice of the customer, market dynamics, and public opinion. By understanding how to prompt the model, interpret its results, and consider its limitations, individuals and organizations can unlock valuable insights that drive better decision-making and foster stronger connections with their audience.

## **Q: What is the most effective way to prompt ChatGPT for sentiment analysis?**

A: The most effective way to prompt ChatGPT for sentiment analysis is to be clear, specific, and provide context. Start with a direct instruction like "Analyze the sentiment of the following text as positive, negative, or neutral." For more detailed analysis, specify what you want, such as "Identify the dominant emotion" or "Rate the sentiment on a scale of 1 to 5." Including the text you want analyzed directly in the prompt is essential.

## **Q: Can ChatGPT understand sarcasm and irony for sentiment analysis?**

A: Yes, ChatGPT has a strong capability to understand sarcasm and irony due to its extensive training on diverse text data. However, it's not always perfect. For ambiguous cases, providing more surrounding context within the prompt or explicitly asking the model to consider sarcasm can improve accuracy.

## **Q: How can I use ChatGPT for aspect-based sentiment analysis?**

A: To perform aspect-based sentiment analysis (ABSA) with ChatGPT, your prompt should instruct the model to identify specific aspects or features within the text and then determine the sentiment associated with each of those aspects. For example, "Analyze this review and list the sentiment for 'battery life', 'screen quality', and 'customer support'."

## **Q: What are the limitations of using ChatGPT for sentiment analysis?**

A: Key limitations include potential inaccuracies with highly nuanced or domain-specific language, the possibility of bias inherited from its training data, and challenges with extremely obscure or culturally specific idioms. Data privacy and the cost of extensive API usage for large-scale projects are also considerations.

## **Q: How can I ensure the accuracy of ChatGPT's sentiment analysis results?**

A: To ensure accuracy, it's best practice to:

- Validate ChatGPT's outputs with human review.
- Test prompts with a variety of texts to gauge performance.



- Refine prompts based on any observed misinterpretations.
- Be aware of potential biases.
- Use ChatGPT as a tool to augment, not replace, human analysis.

### **Q: Is ChatGPT suitable for analyzing sentiment in different languages?**

A: ChatGPT supports sentiment analysis in multiple languages due to its multilingual training data. However, performance can vary depending on the language and the amount of training data available for it. For critical applications in non-English languages, testing and validation are highly recommended.

### **Q: How can I handle large volumes of text for sentiment analysis using ChatGPT?**

A: For large volumes, consider using the ChatGPT API for programmatic access. Break down large documents into smaller, manageable chunks for analysis. Explore batch processing capabilities and optimize your API calls for efficiency. For extremely large-scale needs, specialized sentiment analysis services might offer better scalability and cost-effectiveness.

### **Q: Can ChatGPT detect sentiment intensity?**

A: Yes, ChatGPT can be prompted to detect sentiment intensity. You can ask it to rate sentiment on a numerical scale (e.g., 1 to 5) or to describe the strength of the emotion (e.g., "mildly positive," "extremely negative").

### **Q: What are the ethical considerations when using ChatGPT for sentiment analysis?**

A: Ethical considerations include data privacy and security, especially when analyzing personal or sensitive information. It's also important to be aware of and mitigate potential biases that could lead to unfair or discriminatory outcomes. Transparency about the use of AI for analysis is also a good practice.

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**using chatgpt to analyze text sentiment:** *Unlock Your Data Superpowers: Master Data Science & ML with ChatGPT* Fredric Cardin, Ready to transform data into actionable insights? This comprehensive ebook equips you with the fundamentals of Data Science and Machine Learning, along with the game-changing power of ChatGPT. Inside, you'll discover: Core principles of Data Science and Machine Learning - the foundation for building powerful models. How to leverage ChatGPT's capabilities to streamline tasks and unlock new possibilities. Mastering Matplotlib and Seaborn - essential Python libraries for creating clear and impactful data visualizations. Building 3 complete Data Science and Machine Learning projects - get hands-on experience applying your newfound knowledge efficiently, guided by ChatGPT. This ebook is your roadmap to becoming a data pro, empowering you to: Make data-driven decisions with confidence Extract valuable insights from complex datasets Craft compelling data visualizations to communicate your findings Gain a competitive edge in the job market Don't wait - unlock your data superpowers today!

**using chatgpt to analyze text sentiment:** *Data Mining and Big Data* Ying Tan, Yuhui Shi, 2024-02-21 This two-volume set, CCIS 2017 and 2018 constitutes the 8th International Conference, on Data Mining and Big Data, DMBD 2023, held in Sanya, China, in December 2023. The 38 full papers presented in this two-volume set included in this book were carefully reviewed and selected from 79 submissions. The papers present the latest research on advantages in theories, technologies, and applications in data mining and big data. The volume covers many aspects of data mining and big data as well as intelligent computing methods applied to all fields of computer science, machine learning, data mining and knowledge discovery, data science, etc.

**using chatgpt to analyze text sentiment: Fundamentals Of Chat GPT For Beginners Using AI** Dr. Neha Gupta, Saurabh Suman Choudhuri, Dr. Prasad Naik Hamsavath, Ashima Varghese, 2024-02-20 For those intrigued by the revolutionary potential of artificial intelligence in the realm of communication, *Fundamentals of ChatGPT for Beginners Using AI* serves as an indispensable manual. This book provides an extensive examination of ChatGPT, a cutting-edge technology that was created by OpenAI. With an initial focus on introductory concepts, this publication gradually advances to more complex subjects, guaranteeing inclusivity for readers of varying proficiency levels. By means of lucid elucidations, pragmatic illustrations, and interactive exercises, readers acquire knowledge regarding the manner in which ChatGPT empowers machines to partake in organic, humanoid dialogues, thereby finding utility across diverse sectors. There are a wide range of applications for ChatGPT, ranging from chatbots for customer support to assistance for creative writing. The book provides users with the knowledge and abilities necessary to train, fine-tune, and deploy ChatGPT models in real-world settings. The book places a strong emphasis on practicality. *Fundamentals of ChatGPT for Beginners Using AI* delivers the information and tools necessary to explore the wonderful world of conversational artificial intelligence, regardless of whether you are a student, a developer, an entrepreneur, or just inquisitive about artificial intelligence.

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**using chatgpt to analyze text sentiment: Advances in Intelligent Computing Techniques and Applications** Faisal Saeed, Fathey Mohammed, Yousef Fazea, 2024-07-01 This book presents the papers included in the proceedings of the 7th International Conference of Reliable Information and Communication Technology 2023 (IRICT 2023) that was held in Pulau Springs Resorts, Johor, Malaysia on 27-28, December 2023. IRICT 2023 is organized by the Yemeni Scientists Research Group (YSRG) and Big Data Center in Universiti Teknologi Malaysia (Malaysia) in collaboration with Association for Information Systems - Malaysia Chapter (MyAIS) and College of Engineering, IT and Environment at Charles Darwin University (Australia). IRICT2023 is a forum for the presentation of technological advances in the field of Information and Communication Technology. The main theme of the conference is "Advances in Intelligent Computing Techniques and Applications". The book discusses several research topics such as Health Informatics, Artificial Intelligence, Soft Computing, Data Science, Big Data Analytics, Internet of Things (IoT), Intelligent Communication Systems, Cyber Security, and Information System. These papers were presented in three parallel sessions during the two days.

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**using chatgpt to analyze text sentiment: Java for Programmers** Paul Deitel, Harvey M. Deitel, 2025-05-21 The professional programmer's Deitel® guide to Java with integrated generative

AI Written for programmers with a background in another high-level language, in Java for Programmers: with Generative AI, Fifth Edition, you'll learn modern Java development hands on using the latest Java idioms and features and genAIs. In the context of 200+ real-world code examples, you'll quickly master Java fundamentals then move on to arrays, strings, regular expressions, JSON/CSV processing with the Jackson library, private- and public-key cryptography, classes, inheritance, polymorphism, interfaces, dependency injection, exceptions, generic collections, custom generics, functional programming with lambdas and streams, JavaFX GUI, graphics and multimedia, platform threads, virtual threads, structured concurrency, scoped values, building API-based Java genAI apps, database with JDBC and SQLite, the Java Platform Module System and JShell for Python-like interactivity. Features: GenAI Prompt Engineering, API Calls, 600 GenAI Exercises ChatGPT, Gemini, Claude, Perplexity Multimodal: Text, Code, Images, Audio, Speech-to-Text, Text-to-Speech, Video Generics: Collections, Classes, Methods Functional Programming: Lambdas & Streams JavaFX: GUI, Graphics, Multimedia Concurrency: Parallel Streams, Virtual Threads, Structured Concurrency, Scoped Values, Concurrent Collections, Multi-Core Database: JDBC, SQL, SQLite Java Platform Module System (JPMS) Objects Natural: Java API, String, BigInteger, BigDecimal, Date/Time, Cryptography, ArrayList, Regex, JSON, CSV, Web Services JShell for Python-Like Interactivity Want to stay in touch with the Deitels? Contact the authors at [deitel@deitel.com](mailto:deitel@deitel.com) Join the Deitel social media communities [deitel.com/linkedin](https://deitel.com/linkedin) [facebook.com/DeitelFan](https://facebook.com/DeitelFan) [instagram.com/DeitelFan](https://instagram.com/DeitelFan) [x.com/deitel](https://x.com/deitel) [youtube.com/DeitelTV](https://youtube.com/DeitelTV) [mastodon.social/@deitel](https://mastodon.social/@deitel) For source code and updates, visit: [deitel.com/javafp5](https://deitel.com/javafp5) Reviewer Comments The future of Java programming is here, and this new edition of Deitel is leading the charge! By embracing genAI head-on, the authors are potentially revolutionizing programming education. Through its integrative approach to the use and study of genAI, this book is positioned to be the leading book in modern Java and its applications. Indeed, I expect that it should be widely adopted by instructors who want to ingrain in their students an appreciation for the critical role that Java will play in data science, machine learning, artificial intelligence, and cybersecurity. The book's innovative and forward-thinking use of genAI facilitates reader engagement and inspires readers to think critically about the benefits and limitations of AI as a programming aid. Chapter 19 could become everyone's favorite new Java book chapter--the generative AI API-based code examples are interesting and fun. All audiences of this book should read the Preface--there's so much to get excited about! It demonstrates, with refreshing transparency and honesty, how much love and care went into the reinvention of an already outstanding Java book by bringing it into a new frontier of what it means to be a programmer in today's world. Bravo! Your Preface statement: 'GenAI has created an ultra-high-level programming capability that will leverage your Java learning experience and ability to produce robust, top-quality Java software quickly, conveniently and economically.' is a great conclusion to the Preface intro--really helps justify the use of genAI! --Brian Canada, Professor of Computational Science, University of South Carolina Beaufort After reading your whole book, it was fun to read the Preface that wraps everything up at a high level. You have done some amazing work here, and I'm glad to have been a small part of it as a reviewer! I especially appreciate how difficult it must have been to make sure everything was as up to date as possible with the speed at which things change in this field, and the deftness with which you incorporated all the focus on GenAI and data science that's in this book. --Emily Navarro, Ph.D., Continuing Lecturer, Department of Informatics, University of California, Irvine The generative AI exercises are awesome and reflect the way modern developers work! They are fun and let the reader explore and learn about AI by using AI--how meta. This allows readers to expand their knowledge and get a feel for the AIs' code-related capabilities. --Jeanne Boyarsky, CodeRanch, Java Champion Register your book for convenient access to downloads, updates, and/or corrections as they become available. See inside book for details. (Note: eBooks are 4-color and print books are black and white.)

**using chatgpt to analyze text sentiment:** *Artificial Intelligence in Education Technologies: New Development and Innovative Practices* Tim Schlippe, Eric C. K. Cheng, Tianchong Wang, 2023-11-08 This book is a collection of selected research papers presented at the 2023 4th

International Conference on Artificial Intelligence in Education Technology (AIET 2023), held in Berlin, Germany, on June 30 - July 2, 2023. AIET establishes a platform for AI in education researchers to present research, exchange innovative ideas, propose new models, as well as demonstrate advanced methodologies and novel systems. It is a timely and up-to-date publication responsive to the rapid development of AI technologies, practices and their increasingly complex interplay with the education domain. It promotes the cross-fertilisation of knowledge and ideas from researchers in various fields to construct the interdisciplinary research area of AI in Education. These subject areas include computer science, cognitive science, education, learning sciences, educational technology, psychology, philosophy, sociology, anthropology and linguistics. The feature of this book will contribute from diverse perspectives to form a dynamic picture of AI in Education. It also includes various domain-specific areas for which AI and other education technology systems have been designed or used in an attempt to address challenges and transform educational practice. This timely publication is in line with UNESCO's Beijing Consensus on Artificial Intelligence and Education. It is committed to exploring how AI may play a role in bringing more innovative practices, transforming education, and triggering an exponential leap towards the achievement of the Education 2030 Agenda. Providing broad coverage of recent technology-driven advances and addressing a number of learning-centric themes, the book is an informative and useful resource for researchers, practitioners, education leaders and policy-makers who are involved or interested in AI and education.

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**using chatgpt to analyze text sentiment: Business Information Systems** Krzysztof Węcel, 2025-06-15 This book constitutes the proceedings of the 25th International Conference on Business Information Systems, BIS 2025, which took place in Poznan, Poland, during June 25-27, 2025. This year's theme was AI-driven business transformation: challenges and opportunities. The 19 full papers and 4 short papers presented in this volume were carefully reviewed and selected from 54 submissions. The papers were organized in the following topical sections: Artificial intelligence in management; artificial intelligence for visualization; artificial intelligence for language processing; process mining; finance and privacy; data platforms and deployment; sustainable operations and smart automation.

**using chatgpt to analyze text sentiment: Proceedings of the 2023 International Conference**

of The Computational Social Science Society of the Americas Zining Yang, Caroline Krejci, 2024-11-08 This book contains a selection of the latest research in the field of Computational Social Science (CSS) methods, uses, and results, as presented at the 2023 annual conference of the Computational Social Science Society of the Americas (CSSSA). This conference is held in Santa Fe, New Mexico, November 2-5, 2023. CSS is the science that investigates social and behavioral dynamics through social simulation, social network analysis, and social media analysis. The CSSSA is a professional society that aims to advance the field of computational social science in all areas, including basic and applied orientations, by holding conferences and workshops, promoting standards of scientific excellence in research and teaching, and publishing research findings and results.

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