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A Multimodal (Text and Images) Sentiment Analysis System using Deep Neural Networks

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# Multimodal Sentiment Analysis Using Deep Neural Networks

**Soujanya Poria, Amir Hussain, Erik Cambria**



## **Multimodal Sentiment Analysis Using Deep Neural Networks:**

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novel approaches to analyze opinionated videos and to extract sentiments and emotions Textual sentiment analysis framework as discussed in this book contains a novel way of doing sentiment analysis by merging linguistics with machine learning Fusing textual information with audio and visual cues is found to be extremely useful which improves text audio and visual based unimodal sentiment analyzer This volume covers the three main topics of textual preprocessing and sentiment analysis methods frameworks to process audio and visual data and methods of textual audio and visual features fusion The inclusion of key visualization and case studies will enable readers to understand better these approaches Aimed at the Natural Language Processing Affective Computing and Artificial Intelligence audiences this comprehensive volume will appeal to a wide readership and will help readers to understand key details on multimodal sentiment analysis Visual and Text Sentiment Analysis through Hierarchical Deep Learning Networks Arindam Chaudhuri,2019-04-06 This book presents the latest research on hierarchical deep learning for multi modal sentiment analysis Further it analyses sentiments in Twitter blogs from both textual and visual content using hierarchical deep learning networks hierarchical gated feedback recurrent neural networks HGFRNNs Several studies on deep learning have been conducted to date but most of the current methods focus on either only textual content or only visual content In contrast the proposed sentiment analysis model can be applied to any social blog dataset making the book highly beneficial for postgraduate students and researchers in deep learning and sentiment analysis The mathematical abstraction of the sentiment analysis model is presented in a very lucid manner The complete sentiments are analysed by combining text and visual prediction results The book s novelty lies in its development of innovative hierarchical recurrent neural networks for analysing sentiments stacking of multiple recurrent layers by controlling the signal flow from upper recurrent layers to lower layers through a global gating unit evaluation of HGFRNNs with different types of recurrent units and adaptive assignment of HGFRNN layers to different timescales Considering the need to leverage large scale social multimedia content for sentiment analysis both state of the art visual and textual sentiment analysis techniques are used for joint visual textual sentiment analysis The proposed method yields promising results from Twitter datasets that include both texts and images which support the theoretical hypothesis *Sentiment Analysis Unveiled* Neha Nandal,Rohit Tanwar,Varun Sapra,2025-04-02 This book is a comprehensive exploration into the realm of sentiment analysis From deciphering customer sentiments for businesses to understanding public opinions on social media or predicting market trends the applications are multifaceted and impactful Sentiment Analysis Unveiled Techniques Applications and Innovations is more than just algorithms and models it s about unraveling the emotions opinions and perceptions encapsulated within the vast sea of textual data This book explores topics from opinion mining social media analysis deep learning security concerns and healthcare systems and it also delves into the ethical and legal implications of sentiment analysis Through practical examples case studies and discussions on cutting edge innovations the editors aim is to provide a holistic view that empowers you to navigate this field confidently It involves the analysis of user generated content

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Computational Intelligence Applications for Text and Sentiment Data Analysis Dipankar Das,Anup Kumar Kolya,Abhishek Basu,Soham Sarkar,2023-07-14 Approx 330 pagesApprox 330 pages      **Sentimental Analysis and Deep Learning** Subarna Shakya,Valentina Emilia Balas,Sinchai Kamolphiwong,Ke-Lin Du,2021-10-25 This book gathers selected papers presented at the International Conference on Sentimental Analysis and Deep Learning ICSADL 2021 jointly organized by Tribhuvan University Nepal Prince of Songkla University Thailand and Ejesra during June 18 19 2021 The volume discusses state of the art research works on incorporating artificial intelligence models like deep learning techniques for intelligent sentiment analysis applications Emotions and sentiments are emerging as the most important human factors to understand the prominent user generated semantics and perceptions from the humongous volume of user generated data In this scenario sentiment analysis emerges as a significant breakthrough technology which can automatically analyze the human emotions in the data driven applications Sentiment analysis gains the ability to sense the existing voluminous unstructured data and delivers a real time analysis to efficiently automate the business processes Meanwhile deep learning emerges as the

revolutionary paradigm with its extensive data driven representation learning architectures This book discusses all theoretical aspects of sentimental analysis deep learning and related topics Novel Symbolic and Machine-learning Approaches for Text-based and Multimodal Sentiment Analysis Soujanya Poria,2017 *Sentiment Analysis and Deep Learning* Subarna Shakya,Ke-Lin Du,Klimis Ntalianis,2023-01-01 This book gathers selected papers presented at International Conference on Sentimental Analysis and Deep Learning ICSADL 2022 jointly organized by Tribhuvan University Nepal and Prince of Songkla University Thailand during 16 17 June 2022 The volume discusses state of the art research works on incorporating artificial intelligence models like deep learning techniques for intelligent sentiment analysis applications Emotions and sentiments are emerging as the most important human factors to understand the prominent user generated semantics and perceptions from the humongous volume of user generated data In this scenario sentiment analysis emerges as a significant breakthrough technology which can automatically analyze the human emotions in the data driven applications Sentiment analysis gains the ability to sense the existing voluminous unstructured data and delivers a real time analysis to efficiently automate the business processes

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