

Multimodal Sentiment Analysis Using Deep Neural Networks

Mining Intelligence and Knowledge Exploration

Rajendra Prasath 2017-04-25

This book constitutes the refereed proceedings of the 4th International Conference on Mining Intelligence and Knowledge Exploration, MIKE 2016, held in Mexico City, Mexico, in November 2016.

The 18 full papers presented were carefully reviewed and selected from 56 submissions. Accepted papers were grouped into various subtopics including information retrieval, machine learning, pattern recognition, knowledge discovery, classification, clustering, image processing, network security, speech processing, natural language processing, language, cognition and computation, fuzzy sets, and business intelligence.

Mastering PyTorch Ashish

Ranjan Jha 2024-05-31 Master advanced techniques and

algorithms for machine learning with PyTorch using real-world examples Updated for PyTorch 2.x, including integration with Hugging Face, mobile deployment, diffusion models, and graph neural networks Get With Your Book: PDF Copy, AI Assistant, and Next-Gen Reader Free Key Features Understand how to use PyTorch to build advanced neural network models Get the best from PyTorch by working with Hugging Face, fastai, PyTorch Lightning, PyTorch Geometric, Flask, and Docker Unlock faster training with multiple GPUs and optimize model deployment using efficient inference frameworks Book Description PyTorch is making it easier than ever before for anyone to build deep learning applications. This PyTorch deep learning book will help you uncover expert techniques to get the most out of your data and build complex

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neural network models. You'll build convolutional neural networks for image classification and recurrent neural networks and transformers for sentiment analysis. As you advance, you'll apply deep learning across different domains, such as music, text, and image generation, using generative models, including diffusion models. You'll not only build and train your own deep reinforcement learning models in PyTorch but also learn to optimize model training using multiple CPUs, GPUs, and mixed-precision training. You'll deploy PyTorch models to production, including mobile devices. Finally, you'll discover the PyTorch ecosystem and its rich set of libraries. These libraries will add another set of tools to your deep learning toolbox, teaching you how to use fastai to prototype models and PyTorch Lightning to train models. You'll discover libraries for AutoML and explainable AI (XAI), create recommendation systems, and build language and vision

transformers with Hugging Face. By the end of this book, you'll be able to perform complex deep learning tasks using PyTorch to build smart artificial intelligence models. What you will learn
Implement text, vision, and music generation models using PyTorch
Build a deep Q-network (DQN) model in PyTorch
Deploy PyTorch models on mobile devices (Android and iOS)
Become well versed in rapid prototyping using PyTorch with fastai
Perform neural architecture search effectively using AutoML
Easily interpret machine learning models using Captum
Design ResNets, LSTMs, and graph neural networks (GNNs)
Create language and vision transformer models using Hugging Face
Who this book is for
This deep learning with PyTorch book is for data scientists, machine learning engineers, machine learning researchers, and deep learning practitioners looking to implement advanced deep learning models using PyTorch.

This book is ideal for those looking to switch from TensorFlow to PyTorch. Working knowledge of deep learning with Python is required.

Computational Intelligence Applications for Text and Sentiment Data Analysis

Dipankar Das 2023-07-14
Approx.330 pages

Sentiment Analysis Bing Liu 2020-10-15 A comprehensive introduction to computational analysis of sentiments, opinions, emotions, and moods. Now including deep learning methods.

Sentiment Analysis Unveiled Neha Nandal 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 to provide a holistic view that empowers you to navigate this field confidently. It involves the analysis of user-generated content, deciphering sentiments expressed on platforms like Twitter and Facebook, and provides valuable insights into public opinion, brand perception, and emerging trends in the digital landscape. This book is intended for professionals, researchers, and scientists in the field of artificial intelligence and sentiment analysis; it will serve as a valuable resource for both beginners and experienced

professionals in the field. *Proceedings of the Third Congress on Control, Robotics, and Mechatronics* Harish Sharma 2026-01-01 This book features high-quality research papers presented at the International Conference of Mechanical and Robotic Engineering “Congress on Control, Robotics, and Mechatronics” (CRM 2025), jointly organized by SR University, Warangal, India, and Soft Computing Research Society, India, during 1-2 February 2025. This book discusses the topics such as combustion and fuels, controls and dynamics, fluid mechanics, I.C. engines and automobile engineering, machine design, mechatronics, rotor dynamics, solid mechanics, thermodynamics and combustion engineering, composite material, aerodynamics, aerial vehicles, missiles and robots, automatic design and manufacturing, artificial intelligence, unmanned aerial vehicles, autonomous robotic vehicles, evolutionary robotics,

humanoids, hardware architecture, industrial robotics, intelligent control systems, microsensors and actuators, multi-robots systems, neural decoding algorithms, neural networks for mobile robots, space robotics, control theory and applications, model predictive control, variable structure control, and decentralized control.

Information and Communication Systems

Nagaraja B. G. 2026-04-02 This book looks closely at the latest insights and developments in information and communication systems, with particular emphasis on the use of advanced technologies like smart antennas, wireless communication, artificial intelligence, the Internet of Things (IoT), and signal processing. The chapters included in this volume connect theoretical principles with practical applications to explore a key theme - building reliable and sustainable communication infrastructures through noise-resistant speech

technologies, network security, and advanced wireless systems. Taking a multidisciplinary approach, the research contributions contained in this book illustrate how the combination of intelligence and soft computing techniques with communication systems can improve performance, reliability, and scalability. The book is intended for researchers, academicians, industry professionals, and postgraduate students in rapidly evolving fields of electronics, communication engineering, and computer science. It will also benefit practitioners seeking practical insights into emerging technologies, as well as policymakers and innovators aiming to bridge academic research with industrial applications. The Open Access version of this book, available at <http://www.taylorfrancis.com>, has been made available under a Creative Commons [Attribution-Non Commercial-No Derivatives (CC BY-NC-

ND)] 4.0 license.

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.

Innovative Computing and Communications

Aboul Ella Hassanien 2025-09-30 This book includes high-quality research papers presented at the Eighth International

Conference on Innovative Computing and Communication (ICICC 2025), which is held at the Shaheed Sukhdev College of Business Studies, University of Delhi, Delhi, India, on 14-15 February 2025. Introducing the innovative works of scientists, professors, research scholars, students, and industrial experts in the field of computing and communication, the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real-time applications.

Mining Intelligence and

Knowledge Exploration

Ashish Ghosh 2017-12-05 This book constitutes the refereed post-conference proceedings of the 5th International Conference on Mining Intelligence and Knowledge Exploration, MIKE 2017, held in Hyderabad, India, in December 2017. The 40 full papers presented were carefully reviewed and selected from 139 submissions. The papers were grouped into various subtopics including artificial intelligence, machine

learning, image processing, pattern recognition, speech processing, information retrieval, natural language processing, social network analysis, security, and fuzzy rough sets.

Deep Learning and Reinforcement Learning

2023-11-15 Deep learning and reinforcement learning are some of the most important and exciting research fields today. With the emergence of new network structures and algorithms such as convolutional neural networks, recurrent neural networks, and self-attention models, these technologies have gained widespread attention and applications in fields such as natural language processing, medical image analysis, and Internet of Things (IoT) device recognition. This book, *Deep Learning and Reinforcement Learning* examines the latest research achievements of these technologies and provides a reference for researchers, engineers, students, and other interested readers. It helps readers understand the

opportunities and challenges faced by deep learning and reinforcement learning and how to address them, thus improving the research and application capabilities of these technologies in related fields.

Multimodal Sentiment Analysis

Soujanya Poria 2018-10-24 This latest volume in the series, *Socio-Affective Computing*, presents a set of 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.

Sentiment Analysis and Deep

Learning Subarna Shakya

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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Maynard's Industrial and Systems Engineering Handbook, Sixth Edition

Bopaya Bidanda 2022-09-16
The classic industrial engineering resource—fully updated for the latest advances Brought fully up to date by expert Bopaya M. Bidanda, this go-to handbook contains exhaustive, application-driven coverage of Industrial Engineering (IE) principles, practices, materials, and systems. Featuring contributions from scores of international professionals in the field, Maynard's Industrial Engineering Handbook, Sixth Edition provides a holistic view of exactly what an Industrial Engineer in today's world

needs to succeed. All-new chapters and sections cover logistics, probability and statistics, supply chains, quality, product design, systems engineering, and engineering management. Coverage includes: Productivity Engineering economics Human factors, ergonomics, and safety Compensation management Facility logistics Planning and scheduling Operations research Statistics and probability Supply chains and quality Product design Manufacturing models and analysis Systems engineering Engineering management The global Industrial Engineer IE application environments

Emotions in Code - The AI Frontier of Sentiment Analysis

2025-10-15 What happens when machines start to understand—maybe even feel—our emotions? Emotions in Code - The AI Frontier of Sentiment Analysis explores the fascinating intersection of artificial intelligence and human emotions. As algorithms become more sophisticated,

they are learning not just to process data but to, in effect, read between the lines—interpreting tone, mimicking affect, and reacting to our moods in real-time. In a world increasingly shaped by AI, grasping how these systems interpret sentiment is not just useful—it is vital. The call for emotional intelligence in our technologies echoes louder than ever. Addressing this urgent need, the book provides:

- A layered exploration of sentiment analysis, from paradoxical challenges to emerging “empathy” algorithms.
- A look at the machine learning methods behind emotional recognition in language, voice, and behavior.
- Case studies and insights from across the globe, spanning media, healthcare, finance, and more.
- Reflections on the ethical stakes of emotional AI—what it means for trust, communication, and the human experience. Blending technical depth with real-world relevance, this book caters to researchers, developers, and

anyone curious about how machines are becoming smarter at reading us, and what that means for the future. *SENTIMENT ANALYSIS WITH PYTHON: A HANDS-ON APPROACH* Dr. G. UMA DEVI 2023-02-21 Sentiment Analysis with Python: A Hands-on Approach is a practical guide to building sentiment analysis solutions using Natural Language Processing (NLP) techniques and Python. It introduces the fundamentals of sentiment analysis and then takes the reader through the complete workflow required to convert raw text into reliable sentiment insights. The book explains essential text preparation methods such as tokenization, normalization, stop-word removal, stemming/lemmatization, and handling emojis, slangs, abbreviations, and negations. It then covers feature engineering techniques including Bag of Words, TF-IDF, and word/sentence embeddings. Multiple sentiment analysis strategies are presented—lexicon-based

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and rule-based methods, machine learning approaches, and deep learning models—followed by clear guidance on evaluating models using metrics such as accuracy, precision/recall, F1 score, confusion matrix, ROC/AUC, and Cohen’s kappa. To connect theory with practice, the text includes hands-on Python examples, domain-focused applications (social media, news, customer reviews, and finance), and advanced topics such as transfer learning, multilingual sentiment analysis, multimodal sentiment analysis, and handling inconsistent data, concluding with future directions and recommendations. Book details: Title: Sentiment Analysis with Python: A Hands-on Approach Author: Dr. G. Uma Devi First published: February 2023 Edition: First Edition Publisher: Magestic Technology Solutions (P) Ltd., Chennai, Tamil Nadu, India ISBN (Paperback): 978-93-92090-11-0 DOI: <https://www.doi.org/10.47716/>

MTS.B.978-93-92090-11-0
Pages: 178 (Front pages 12; Inner pages 166)
Sentiment Analysis in NLP
Shanliang Yang 2026-10-12
From rule-based systems to deep learning, the author presents everything you need to know about sentiment analysis As sentiment analysis evolves from simple lexicon matching to sophisticated multimodal deep learning, practitioners need authoritative guidance spanning the field's entire trajectory. Sentiment Analysis in NLP delivers this breadth, covering text-based, aspect-based, multimodal, and implicit sentiment analysis, integrating text, audio, and visual data processing while addressing both theoretical foundations and real-world implementations. This book examines neural network architectures including CNNs and RNNs for text analysis, transformer models like BERT, and Graph Attention Networks. Dedicated chapters cover attention mechanisms and generative AI for synthetic data

generation. Practical applications span product development, social media monitoring, and public health surveillance. Python code, datasets, and a solutions manual support hands-on learning. Readers will also find: Multimodal sentiment analysis techniques integrating text, speech, and image data to interpret emotional content across diverse communication formats Transformer-based models and attention mechanisms including BERT and GPT architectures that have transformed state-of-the-art sentiment classification performance Real-time context-aware sentiment analysis systems designed for continuous monitoring applications in social media and business intelligence environments Ethical considerations addressing data privacy, algorithmic bias, and transparency challenges that practitioners face when deploying sentiment analysis systems Case studies demonstrating sentiment analysis applications across

customer feedback analysis, public safety monitoring, and healthcare decision support contexts This reference serves NLP researchers, data scientists, and business intelligence professionals who implement sentiment analysis systems. Graduate students in machine learning and deep learning will find both theoretical depth and practical resources for coursework and research applications.

[Multimodal Learning Using Heterogeneous Data](#) Saeid Eslamian 2025-12-19

Multimodal Learning Using Heterogeneous Data is a comprehensive guide to the emerging field of multimodal learning, which focuses on integrating diverse data types such as text, images, and audio within a unified framework. The book delves into the challenges and opportunities presented by multimodal data and offers insights into the foundations, techniques, and applications of this interdisciplinary approach. It is intended for researchers and practitioners interested in

learning more about multimodal learning and is a valuable resource for those working on projects involving data analysis from multiple modalities. The book begins with a comprehensive introduction, focusing on multimodal learning's foundational principles and the intricacies of heterogeneous data. It then delves into feature extraction, fusion techniques, and deep learning architectures tailored for multimodal data. It also covers transfer learning, pre-processing challenges, and cross-modal information retrieval. The book highlights the application of multimodal learning in specialized contexts such as sentiment analysis, data generation, medical imaging, and ethical considerations. Real-world case studies are woven into the narrative, illuminating the applications of multimodal learning in diverse domains such as natural language processing, multimedia content analysis, autonomous systems, and cognitive computing. The

book concludes with an insightful exploration of multimodal data analytics across social media, surveillance, user behavior, and a forward-looking examination of future trends and practical implementations. As a collective resource, *Multimodal Learning Using Heterogeneous Data* illuminates the powerful utility of multimodal learning to elevate machine learning tasks while also highlighting the need for innovative solutions and methodologies. The book acknowledges the challenges associated with deep learning and the growing importance of ethical considerations in the collection and analysis of multimodal data. Overall, *Multimodal Learning Using Heterogeneous Data* provides an expansive panorama of this rapidly evolving field, its potential for future research and application, and its vital role in shaping machine learning's evolution. - Provides a detailed exploration of multimodal learning techniques with a special focus on

handling heterogeneous data sources - Delves into advanced techniques such as deep fusion, graph-based methods, and attention mechanisms, catering to readers seeking deeper understanding - Offers code examples, practical guidance, and real-world case studies to bridge the gap between theory and application - Highlights applications in domains such as healthcare, autonomous vehicles, and multimedia analysis to showcase the practical relevance of multimodal learning -

Discusses emerging trends and challenges, enabling readers to stay ahead in this evolving field

Deep Learning-Based Approaches for Sentiment

Analysis Basant Agarwal

2020-01-24 This book covers

deep-learning-based

approaches for sentiment

analysis, a relatively new, but

fast-growing research area,

which has significantly

changed in the past few years.

The book presents a collection

of state-of-the-art approaches,

focusing on the best-

performing, cutting-edge

solutions for the most common and difficult challenges faced in sentiment analysis research. Providing detailed explanations of the methodologies, the book is a valuable resource for researchers as well as newcomers to the field.

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Analysis Using Deep Neural Networks review, we will delve into the intricacies of the platform, exploring its features, content diversity, user interface, and the overall reading experience it promises.

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Using Deep Neural Networks paints its literary masterpiece. The website's design is a testament to the thoughtful curation of content, offering an experience that is both visually appealing and functionally intuitive. The bursts of color and images harmonize with the perplexity of literary choices, creating a seamless journey for every visitor.

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