Text Analytics with Python

A Practical Real–World Approach to Gaining Actionable Insights from Your Data

Dipanjan Sarkar

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Thomas Griffiths

Text Analytics With Python A Practical Real World Approach:

   Text Analytics with Python Dipanjan Sarkar,2016-11-30 Derive useful insights from your data using Python You will learn both basic and advanced concepts including text and language syntax structure and semantics You will focus on algorithms and techniques such as text classification clustering topic modeling and text summarization Text Analytics with Python teaches you the techniques related to natural language processing and text analytics and you will gain the skills to know which technique is best suited to solve a particular problem You will look at each technique and algorithm with both a bird s eye view to understand how it can be used as well as with a microscopic view to understand the mathematical concepts and to implement them to solve your own problems What You Will Learn Understand the major concepts and techniques of natural language processing NLP and text analytics including syntax and structure Builda text classification system to categorize news articles analyze app or game reviews using topic modeling and text summarization and cluster popular movie synopses and analyze the sentiment of movie reviews Implement Python and popular open source libraries in NLP and text analytics such as the natural language toolkit nltk gensim scikit learn spaCy and Pattern Who This Book Is For IT professionals analysts developers linguistic experts data scientists and anyone with a keen interest in linguistics analytics and generating insights from textual data   **Text Analytics** John Atkinson-Abutridy,2022-04-28 Text Analytics An Introduction to the Science and Applications of Unstructured Information Analysis is a concise and accessible introduction to the science and applications of text analytics or text mining which enables automatic knowledge discovery from unstructured information sources for both industrial and academic purposes The book introduces the main concepts models and computational techniques that enable the reader to solve real decision making problems arising from textual and or documentary sources Features Easy to follow step by step concepts and methods Every chapter is introduced in a very gentle and intuitive way so students can understand the WHYs WHAT IFs WHAT IS THIS FORs HOWs etc by themselves Practical programming exercises in Python for each chapter Includes theory and practice for every chapter summaries practical coding exercises for target problems QA and sample code and data available for download at https www routledge com Atkinson Abutridy p book 9781032249797   *Intelligent Systems Design and Applications* Ajith Abraham,Sabri Pllana,Gabriella Casalino,Kun Ma,Anu Bajaj,2023-06-02 This book highlights recent research on intelligent systems and nature inspired computing It presents 223 selected papers from the 22nd International Conference on Intelligent Systems Design and Applications ISDA 2022 which was held online The ISDA is a premier conference in the field of computational intelligence and the latest installment brought together researchers engineers and practitioners whose work involves intelligent systems and their applications in industry Including contributions by authors from 65 countries the book offers a valuable reference guide for all researchers students and practitioners in the fields of computer science and engineering   **Deep Data Analytics for New Product Development** Walter R. Paczkowski,2020-02-19 This book presents and

develops the deep data analytics for providing the information needed for successful new product development Deep Data Analytics for New Product Development has a simple theme information about what customers need and want must be extracted from data to effectively guide new product decisions regarding concept development design pricing and marketing The benefits of reading this book are twofold The first is an understanding of the stages of a new product development process from ideation through launching and tracking each supported by information about customers The second benefit is an understanding of the deep data analytics for extracting that information from data These analytics drawn from the statistics econometrics market research and machine learning spaces are developed in detail and illustrated at each stage of the process with simulated data The stages of new product development and the supporting deep data analytics at each stage are not presented in isolation of each other but are presented as a synergistic whole This book is recommended reading for analysts involved in new product development Readers with an analytical bent or who want to develop analytical expertise would also greatly benefit from reading this book as well as students in business programs   Deep Learning for Smart Healthcare K. Murugeswari,B. Sundaravadivazhagan,S Poonkuntran,Thendral Puyalnithi,2024-05-15 Deep learning can provide more accurate results compared to machine learning It uses layered algorithmic architecture to analyze data It produces more accurate results since learning from previous results enhances its ability The multi layered nature of deep learning systems has the potential to classify subtle abnormalities in medical images clustering patients with similar characteristics into risk based cohorts or highlighting relationships between symptoms and outcomes within vast quantities of unstructured data Exploring this potential Deep Learning for Smart Healthcare Trends Challenges and Applications is a reference work for researchers and academicians who are seeking new ways to apply deep learning algorithms in healthcare including medical imaging and healthcare data analytics It covers how deep learning can analyze a patient s medical history efficiently to aid in recommending drugs and dosages It discusses how deep learning can be applied to CT scans MRI scans and ECGs to diagnose diseases Other deep learning applications explored are extending the scope of patient record management pain assessment new drug design and managing the clinical trial process Bringing together a wide range of research domains this book can help to develop breakthrough applications for improving healthcare management and patient outcomes   **Advanced Computing Strategies for Engineering** Ian F. C. Smith,Bernd Domer,2018-06-09 This double volume set LNAI 10863 10864 constitutes the refereed proceedings of the 25th International Workshop EG ICE 2018 held in Lausanne Switzerland in June 2018 The 58 papers presented in this volume were carefully reviewed and selected from 108 submissions The papers are organized in topical sections on Advanced Computing in Engineering Computer Supported Construction Management Life Cycle Design Support Monitoring and Control Algorithms in Engineering and BIM and Engineering Ontologies   Innovative Systems for Intelligent Health Informatics Faisal Saeed,Fathey Mohammed,Abdulaziz Al-Nahari,2021-05-05 This book presents the papers included in the proceedings of the 5th International Conference of

Reliable Information and Communication Technology 2020 IRICT 2020 that was held virtually on December 21 22 2020 The main theme of the book is Innovative Systems for Intelligent Health Informatics A total of 140 papers were submitted to the conference but only 111 papers were published in this book The book presents several hot research topics which include health informatics bioinformatics information retrieval artificial intelligence soft computing data science big data analytics Internet of things IoT intelligent communication systems information security information systems and software engineering

 ,   *Natural Language Processing in Action, Second Edition* Hobson Lane,Maria Dyshel,2025-02-25 Develop your NLP skills from scratch with an open source toolbox of Python packages Transformers Hugging Face vector databases and your own Large Language Models Natural Language Processing in Action Second Edition has helped thousands of data scientists build machines that understand human language In this new and revised edition you ll discover state of the art Natural Language Processing NLP models like BERT and HuggingFace transformers popular open source frameworks for chatbots and more You ll create NLP tools that can detect fake news filter spam deliver exceptional search results and even build truthfulness and reasoning into Large Language Models LLMs In Natural Language Processing in Action Second Edition you will learn how to Process analyze understand and generate natural language text Build production quality NLP pipelines with spaCy Build neural networks for NLP using Pytorch BERT and GPT transformers for English composition writing code and even organizing your thoughts Create chatbots and other conversational AI agents In this new and revised edition you ll discover state of the art NLP models like BERT and HuggingFace transformers popular open source frameworks for chatbots and more Plus you ll discover vital skills and techniques for optimizing LLMs including conversational design and automating the trial and error of LLM interactions for effective and accurate results About the technology From nearly human chatbots to ultra personalized business reports to AI generated email news stories and novels natural language processing NLP has never been more powerful Groundbreaking advances in deep learning have made high quality open source models and powerful NLP tools like spaCy and PyTorch widely available and ready for production applications This book is your entrance ticket and backstage pass into the next generation of natural language processing About the book Natural Language Processing in Action Second Edition introduces the foundational technologies and state of the art tools you ll need to write and publish NLP applications You learn how to create custom models for search translation writing assistants and more without relying on big commercial foundation models This fully updated second edition includes coverage of BERT Hugging Face transformers fine tuning large language models and more What s inside NLP pipelines with spaCy Neural networks with PyTorch BERT and GPT transformers Conversational design for chatbots About the reader For intermediate Python programmers familiar with deep learning basics About the author Hobson Lane is a data scientist and machine learning engineer with over twenty years of experience building autonomous systems and NLP pipelines Maria Dyshel is a social entrepreneur and artificial intelligence expert and the CEO and cofounder of Tangible AI Cole Howard and Hannes Max

Hapke were co authors of the first edition Fluent Python Luciano Ramalho,2015 Explains how to write idiomatic effective Python code by leveraging its best features Python s simplicity quickly lets you become productive with it but this often means you aren t using everything the language has to offer By taking you through Python s key language features and libraries this practical book shows you how to make your code shorter faster and more readable all at the same time From publisher description *Text Analytics with Python* Dipanjan Sarkar,2019-05-21 Leverage Natural Language Processing NLP in Python and learn how to set up your own robust environment for performing text analytics This second edition has gone through a major revamp and introduces several significant changes and new topics based on the recent trends in NLP You ll see how to use the latest state of the art frameworks in NLP coupled with machine learning and deep learning models for supervised sentiment analysis powered by Python to solve actual case studies Start by reviewing Python for NLP fundamentals on strings and text data and move on to engineering representation methods for text data including both traditional statistical models and newer deep learning based embedding models Improved techniques and new methods around parsing and processing text are discussed as well Text summarization and topic models have been overhauled so the book showcases how to build tune and interpret topic models in the context of an interest dataset on NIPS conference papers Additionally the book covers text similarity techniques with a real world example of movie recommenders along with sentiment analysis using supervised and unsupervised techniques There is also a chapter dedicated to semantic analysis where you ll see how to build your own named entity recognition NER system from scratch While the overall structure of the book remains the same the entire code base modules and chapters has been updated to the latest Python 3 x release What You ll Learn Understand NLP and text syntax semantics and structure Discover text cleaning and feature engineering Review text classification and text clustering Assess text summarization and topic models Study deep learning for NLP Who This Book Is For IT professionals data analysts developers linguistic experts data scientists and engineers and basically anyone with a keen interest in linguistics analytics and generating insights from textual data **Artificial Intelligence Abstracts** ,1990 **Introduction to Text Analytics** Emily Öhman,2024-11-01 This easy to follow book will revolutionise how you approach text mining and data analysis as well as equipping you with the tools and confidence to navigate complex qualitative data It can be challenging to effectively combine theoretical concepts with practical real world applications but this accessible guide provides you with a clear step by step approach Written specifically for students and early career researchers this pragmatic manual will Contextualise your learning with real world data and engaging case studies Encourage the application of your new skills with reflective questions Enhance your ability to be critical and reflective when dealing with imperfect data Supported by practical online resources this book is the perfect companion for those looking to gain confidence and independence whilst using transferable data skills *Subject Guide to Books in Print* ,1991 **Practical Machine Learning for Data Analysis Using Python** Abdulhamit Subasi,2020-06-07 Practical Machine

Learning for Data Analysis Using Python is a problem solver s guide for creating real world intelligent systems It provides a comprehensive approach with concepts practices hands on examples and sample code The book teaches readers the vital skills required to understand and solve different problems with machine learning It teaches machine learning techniques necessary to become a successful practitioner through the presentation of real world case studies in Python machine learning ecosystems The book also focuses on building a foundation of machine learning knowledge to solve different real world case studies across various fields including biomedical signal analysis healthcare security economics and finance Moreover it covers a wide range of machine learning models including regression classification and forecasting The goal of the book is to help a broad range of readers including IT professionals analysts developers data scientists engineers and graduate students to solve their own real world problems **Mastering Text Analytics** Shailendra Kadre,Shailesh Kadre,Subhendu Dey,2025-08-26 This book is a comprehensive guide to mastering Natural Language Processing NLP a rapidly growing field in AI powered text and data analytics It equips you with tools and techniques to extract valuable insights from both structured and unstructured data enabling you to uncover insights beyond the reach of traditional data analysis methods and stay competitive in this evolving domain The book starts with foundational concepts such as collecting and extracting data for NLP projects before progressing to advanced topics like applications of transfer learning in NLP and Large Language Models LLMs Each chapter emphasizes real world applications and includes practical case studies to ensure the knowledge is immediately applicable Throughout the book readers will find Python code demonstrations hands on projects and detailed explanations of key concepts Special features include business use cases from industries like healthcare and customer service practice exercises to reinforce learning and explorations of emerging NLP technologies These elements make the book not only informative but also highly engaging and interactive By the end of the book the reader will have a solid foundation in Generative AI techniques to apply them to complex challenges Whether you re a budding data scientist or a seasoned professional this guide will help you harness the power of AI driven text and data analytics effectively What you will learn Understand NLP with easy to follow explanations examples and Python implementations Explore techniques such as transformers word embeddings and pragmatic analysis in real world contexts Work with real world datasets and apply pre processing tokenization and text extraction using NLP libraries How to build complete NLP pipelines from data collection to model implementation including sentiment analysis and chatbots Learn state of the art methods like deep learning techniques in NLP large language models LLMs and zero shot learning in NLP Who this book is for This book is tailored for data scientists machine learning engineers AI practitioners and software developers seeking to learn NLP techniques and apply them to solve problems **Unlocking Text Analytics** M M Siddique,2025-06-30 Unlocking Text Analytics is a practical cross disciplinary guide that helps learners harness the power of unstructured text using Python and Natural Language Processing NLP Designed for students educators and professionals across engineering IT and business domains this book

bridges the gap between technical concepts and real world application Through hands on projects and industry relevant use cases the book covers key techniques such as sentiment analysis topic modeling named entity recognition and text classification Readers will learn how to process raw text data build NLP workflows and apply machine learning models to derive insights across diverse fields from marketing and healthcare to education and compliance Whether you re building your first text analytics project or looking to apply NLP in your organization this book provides the clarity tools and confidence to get started Ideal for modern learners seeking practical skills in Python data science and AI driven decision making   **Paperbound Books in Print** ,1984   **CD-ROMs in Print** ,2002   *Proceedings of the Freenix Track* USENIX Association,2001

Embracing the Melody of Expression: An Mental Symphony within **Text Analytics With Python A Practical Real World Approach**

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