

Charles C. Aggarwal, Ph.D.

# Social Network Data Analytics

Springer

# Social Network Data Analytics Social Network Data Analytics

**Stephen P Borgatti, Martin G  
Everett, Jeffrey C Johnson**

## **Social Network Data Analytics Social Network Data Analytics:**

**Social Network Data Analytics** Charu C. Aggarwal,2011-03-18 Social network analysis applications have experienced tremendous advances within the last few years due in part to increasing trends towards users interacting with each other on the internet Social networks are organized as graphs and the data on social networks takes on the form of massive streams which are mined for a variety of purposes Social Network Data Analytics covers an important niche in the social network analytics field This edited volume contributed by prominent researchers in this field presents a wide selection of topics on social network data mining such as Structural Properties of Social Networks Algorithms for Structural Discovery of Social Networks and Content Analysis in Social Networks This book is also unique in focussing on the data analytical aspects of social networks in the internet scenario rather than the traditional sociology driven emphasis prevalent in the existing books which do not focus on the unique data intensive characteristics of online social networks Emphasis is placed on simplifying the content so that students and practitioners benefit from this book This book targets advanced level students and researchers concentrating on computer science as a secondary text or reference book Data mining database information security electronic commerce and machine learning professionals will find this book a valuable asset as well as primary associations such as ACM IEEE and Management Science

**Big Data Analytics** Mrutyunjaya Panda,Ajith Abraham,Aboul Ella Hassanien,2018-12-12 Social networking has increased drastically in recent years resulting in an increased amount of data being created daily Furthermore diversity of issues and complexity of the social networks pose a challenge in social network mining Traditional algorithm software cannot deal with such complex and vast amounts of data necessitating the development of novel analytic approaches and tools This reference work deals with social network aspects of big data analytics It covers theory practices and challenges in social networking The book spans numerous disciplines like neural networking deep learning artificial intelligence visualization e learning in higher education e healthcare security and intrusion detection

**Deep Learning for Social Media Data Analytics** Tzung-Pei Hong,Leticia Serrano-Estrada,Akrati Saxena,Anupam Biswas,2022-09-18 This edited book covers ongoing research in both theory and practical applications of using deep learning for social media data Social networking platforms are overwhelmed by different contents and their huge amounts of data have enormous potential to influence business politics security planning and other social aspects Recently deep learning techniques have had many successful applications in the AI field The research presented in this book emerges from the conviction that there is still much progress to be made toward exploiting deep learning in the context of social media data analytics It includes fifteen chapters organized into four sections that report on original research in network structure analysis social media text analysis user behaviour analysis and social media security analysis This work could serve as a good reference for researchers as well as a compilation of innovative ideas and solutions for practitioners interested in applying deep learning techniques to social media data analytics

**Cognitive Social Mining Applications in Data**

**Analytics and Forensics** Haldorai, Anandakumar, Ramu, Arulmurugan, 2018-12-14 Recently there has been a rapid increase in interest regarding social network analysis in the data mining community Cognitive radios are expected to play a major role in meeting this exploding traffic demand on social networks due to their ability to sense the environment analyze outdoor parameters and then make decisions for dynamic time frequency space resource allocation and management to improve the utilization of mining the social data Cognitive Social Mining Applications in Data Analytics and Forensics is an essential reference source that reviews cognitive radio concepts and examines their applications to social mining using a machine learning approach so that an adaptive and intelligent mining is achieved Featuring research on topics such as data mining real time ubiquitous social mining services and cognitive computing this book is ideally designed for social network analysts researchers academicians and industry professionals *Introduction to Social Network Analysis with R* Michal Bojanowski, 2022-04-22

Introduction to Social Network Analysis with R provides an introduction to performing SNA studies using R combining the theories of social networks and methods of social network analysis with the R environment as an open source system for statistical data analysis and graphics *Social Network Analytics* Nilanjan Dey, Samarjeet Borah, Rosalina Babo, Amira S. Ashour, 2018-11-16

Social Network Analytics Computational Research Methods and Techniques focuses on various technical concepts and aspects of social network analysis The book features the latest developments and findings in this emerging area of research In addition it includes a variety of applications from several domains such as scientific research and the business and industrial sectors The technical aspects of analysis are covered in detail including visualizing and modeling network theory mathematical models the big data analytics of social networks multidimensional scaling and more As analyzing social network data is rapidly gaining interest in the scientific research community because of the importance of the information and insights that can be culled from the wealth of data inherent in the various aspects of the network this book provides insights on measuring the relationships and flows between people groups organizations computers URLs and more Examines a variety of data analytic techniques that can be applied to social networks Discusses various methods of visualizing modeling and tracking network patterns organization growth and change Covers the most recent research on social network analysis and includes applications to a number of domains

**Big Data Analytics for Sustainable Computing** Haldorai, Anandakumar, Ramu, Arulmurugan, 2019-09-20 Big data consists of data sets that are too large and complex for traditional data processing and data management applications Therefore to obtain the valuable information within the data one must use a variety of innovative analytical methods such as web analytics machine learning and network analytics As the study of big data becomes more popular there is an urgent demand for studies on high level computational intelligence and computing services for analyzing this significant area of information science Big Data Analytics for Sustainable Computing is a collection of innovative research that focuses on new computing and system development issues in emerging sustainable applications Featuring coverage on a wide range of topics such as data filtering

knowledge engineering and cognitive analytics this publication is ideally designed for data scientists IT specialists computer science practitioners computer engineers academicians professionals and students seeking current research on emerging analytical techniques and data processing software **Social Media Data Mining and Analytics** Gabor Szabo,Gungor Polatkan,P. Oscar Boykin,Antonios Chalkiopoulos,2018-09-19 Harness the power of social media to predict customer behavior and improve sales Social media is the biggest source of Big Data Because of this 90% of Fortune 500 companies are investing in Big Data initiatives that will help them predict consumer behavior to produce better sales results Social Media Data Mining and Analytics shows analysts how to use sophisticated techniques to mine social media data obtaining the information they need to generate amazing results for their businesses Social Media Data Mining and Analytics isn't just another book on the business case for social media Rather this book provides hands on examples for applying state of the art tools and technologies to mine social media examples include Twitter Wikipedia Stack Exchange LiveJournal movie reviews and other rich data sources In it you will learn The four key characteristics of online services users social networks actions and content The full data discovery lifecycle data extraction storage analysis and visualization How to work with code and extract data to create solutions How to use Big Data to make accurate customer predictions How to personalize the social media experience using machine learning Using the techniques the authors detail will provide organizations the competitive advantage they need to harness the rich data available from social media platforms **Seven Layers of Social Media Analytics** Gohar F. Khan,2015 The book offers concepts tools tutorials and case studies that business managers need to extract and analyze the seven layers of social media data including text actions networks apps hyperlinks search engines and location layers Social media analytics is about converting unstructured social media data into meaningful business insights By the end of this book you will have mastered the concepts techniques and tools used to extract business insights from social media that help increase brand loyalty generate leads drive traffic and ultimately make good business decisions The book is non technical in nature best suited for business managers owners consultants students and professors etc Here is how the book is structured Chapter 1 The Seven Layers of Social Media Analytics Chapter 2 Understanding Social Media Chapter 3 Social Media Text Analytics Chapter 4 Social Media Network Analytics Chapter 5 Social Media Actions Analytics Chapter 6 Social Media Apps Analytics Chapter 7 Social Media Hyperlinks Analytics Chapter 8 Social Media Location Analytics Chapter 9 Social Media Search Engine Analytics Chapter 10 Aligning Social Media Analytics with Business Goals The book also comes with a companion site <http://7layersanalytics.com> which offers Updated Tutorials Power Point Slide Case Studies Sample Data and Syllabus **Analyzing Social Networks** Stephen P Borgatti,Martin G Everett,Jeffrey C Johnson,2018-01-27 Designed to walk beginners through core aspects of collecting visualizing analyzing and interpreting social network data this book will get you up to speed on the theory and skills you need to conduct social network analysis Using simple language and equations the authors provide expert clear insight into every step of the research process including basic maths principles

without making assumptions about what you know With a particular focus on NetDraw and UCINET the book introduces relevant software tools step by step in an easy to follow way In addition to the fundamentals of network analysis and the research process this Second Edition focuses on Digital data and social networks like Twitter Statistical models to use in SNA like QAP and ERGM The structure and centrality of networks Methods for cohesive subgroups community detection

Supported by new chapter exercises a glossary and a fully updated companion website this text is the perfect student friendly introduction to social network analysis

### **Data Science Fundamentals and Practical Approaches** Dr. Gypsy Nandi,Dr.

Rupam Kumar Sharma,2020-06-02 Learn how to process and analysis data using Python KEY FEATURES The book has theories explained elaborately along with Python code and corresponding output to support the theoretical explanations The

Python codes are provided with step by step comments to explain each instruction of the code The book is not just dealing with the background mathematics alone or only the programs but beautifully correlates the background mathematics to the theory and then finally translating it into the programs A rich set of chapter end exercises are provided consisting of both short answer questions and long answer questions DESCRIPTION This book introduces the fundamental concepts of Data

Science which has proved to be a major game changer in business solving problems Topics covered in the book include fundamentals of Data Science data preprocessing data plotting and visualization statistical data analysis machine learning for data analysis time series analysis deep learning for Data Science social media analytics business analytics and Big Data analytics The content of the book describes the fundamentals of each of the Data Science related topics together with illustrative examples as to how various data analysis techniques can be implemented using different tools and libraries of

Python programming language Each chapter contains numerous examples and illustrative output to explain the important basic concepts An appropriate number of questions is presented at the end of each chapter for self assessing the conceptual understanding The references presented at the end of every chapter will help the readers to explore more on a given topic

WHAT WILL YOU LEARN Perform processing on data for making it ready for visual plot and understand the pattern in data over time Understand what machine learning is and how learning can be incorporated into a program Know how tools can be used to perform analysis on big data using python and other standard tools Perform social media analytics business analytics and data analytics on any data of a company or organization WHO THIS BOOK IS FOR The book is for readers with basic programming and mathematical skills The book is for any engineering graduates that wish to apply data science in their

projects or wish to build a career in this direction The book can be read by anyone who has an interest in data analysis and would like to explore more out of interest or to apply it to certain real life problems TABLE OF CONTENTS 1 Fundamentals of Data Science 1 2 Data Preprocessing 3 Data Plotting and Visualization 4 Statistical Data Analysis 5 Machine Learning for Data Science 6 Time Series Analysis 7 Deep Learning for Data Science 8 Social Media Analytics 9 Business Analytics 10 Big Data Analytics

*Handbook of Research on Data Science and Cybersecurity Innovations in Industry 4.0 Technologies*

Murugan, Thangavel,E., Nirmala,2023-09-21 Disruptive innovations are now propelling Industry 4.0 and presenting new opportunities for value generation in all major industry segments. Industry 4.0 technologies innovations in cybersecurity and data science provide smart apps and services with accurate real time monitoring and control. Through enhanced access to real time information it also aims to increase overall effectiveness, lower costs and increase the efficiency of people, processes and technology. The Handbook of Research on Data Science and Cybersecurity Innovations in Industry 4.0 Technologies discusses the technological foundations of cybersecurity and data science within the scope of the Industry 4.0 landscape and details the existing cybersecurity and data science innovations with Industry 4.0 applications as well as state of the art solutions with regard to both academic research and practical implementations. Covering key topics such as data science, blockchain and artificial intelligence, this premier reference source is ideal for industry professionals, computer scientists, scholars, researchers, academicians, practitioners, instructors and students.

*Analyzing Social Networks Using R* Stephen P. Borgatti, Martin G. Everett, Jeffrey C. Johnson, Filip Agneessens, 2022-04-21 This approachable book introduces network research in R, walking you through every step of doing social network analysis. Drawing together research design, data collection and data analysis, it explains the core concepts of network analysis in a non-technical way. The book balances an easy to follow explanation of the theoretical and statistical foundations underpinning network analysis with practical guidance on key steps like data management, preparation and visualisation. With clarity and expert insight, it discusses measures and techniques for analyzing social network data, including digital media. Explains a range of statistical models including QAP and ERGM, giving you the tools to approach different types of networks. Offers digital resources like practice datasets and worked examples that help you get to grips with R software.

*Analyzing Social Networks* Stephen P. Borgatti, Martin G. Everett, Jeffrey C. Johnson, Filip Agneessens, 2024-02-22 Kickstart your research with this practical bestselling guide to doing social network analysis. Get to grips with the mathematical foundations and learn how to use software tools such as NetDraw and UCINET to reach your research goals. Supporting you step by step through the entire research process from design and data collection to coding, visualisation and analysis, the book also offers case studies and examples using real data. Exercises drawn from the authors' decades of teaching experience. Online access to datasets, worked examples and a software manual to help you practice your skills. Whether you are new to social network analysis or an experienced researcher, this approachable book is your technical toolbox and research companion all in one.

**Data Analytics for Intelligent Transportation Systems** Mashrur Chowdhury, Kakan Dey, Amy Apon, 2024-11-02 Data Analytics for Intelligent Transportation Systems provides in-depth coverage of data enabled methods for analyzing intelligent transportation systems (ITS) including the tools needed to implement these methods using big data analytics and other computing techniques. The book examines the major characteristics of connected transportation systems along with the fundamental concepts of how to analyze the data they produce. It explores collecting, archiving, processing and distributing the data, designing data infrastructures, data

management and delivery systems and the required hardware and software technologies It presents extensive coverage of existing and forthcoming intelligent transportation systems and data analytics technologies All fundamentals concepts presented in this book are explained in the context of ITS Users will learn everything from the basics of different ITS data types and characteristics to how to evaluate alternative data analytics for different ITS applications They will discover how to design effective data visualizations tactics on the planning process and how to evaluate alternative data analytics for different connected transportation applications along with key safety and environmental applications for both commercial and passenger vehicles data privacy and security issues and the role of social media data in traffic planning Data Analytics for Intelligent Transportation Systems will prepare an educated ITS workforce and tool builders to make the vision for safe reliable and environmentally sustainable intelligent transportation systems a reality It serves as a primary or supplemental textbook for upper level undergraduate and graduate ITS courses and a valuable reference for ITS practitioners Utilizes real ITS examples to facilitate a quicker grasp of materials presented Contains contributors from both leading academic and commercial domains Explains how to design effective data visualizations tactics on the planning process and how to evaluate alternative data analytics for different connected transportation applications Includes exercise problems in each chapter to help readers apply and master the learned fundamentals concepts and techniques New to the second edition Two new chapters on Quantum Computing in Data Analytics and Society and Environment in ITS Data Analytics

**Social Network Based Big Data Analysis and Applications** Mehmet Kaya,Jalal Kawash,Suheil Khoury,Min-Yuh Day,2018-05-10 This book is a timely collection of chapters that present the state of the art within the analysis and application of big data Working within the broader context of big data this text focuses on the hot topics of social network modelling and analysis such as online dating recommendations hiring practices and subscription type prediction in mobile phone services Manuscripts are expanded versions of the best papers presented at the IEEE ACM International Conference on Advances in Social Networks Analysis and Mining ASONAM 2016 which was held in August 2016 The papers were among the best featured at the meeting and were then improved and extended substantially Social Network Based Big Data Analysis and Applications will appeal to students and researchers in the field

*Social Network Analysis in Action* Song Yang,2024-08-12 This book offers a balanced view between a basic introduction of Social Network Analysis SNA in its methods and application and advanced topics of data mining techniques and the subsequent SNA analyses The book stands out as uniquely important contribution to the SNA field because it moves beyond the stage of basic SNA methods It describes data mining techniques introducing an online discourse collection platform ICAS which is developed by an interdisciplinary team involving Sociologists and Computer Engineer teams with supports of NSF funds Targeted audiences of this book are students and scholars interested in using SNA techniques to advance their analytics of their respective research areas This book provides particular utilities to students at the beginner stage of learning SNA basics and those in their intermediary careers looking to advance their

knowledges of what SNA has to offer The unique features of this book lie in its descriptions of data mining techniques data processing and data analytics The discussions of an online discourse network platform and data processing capabilities present tremendous benefits to those who aspire to mine the massive data of online social networking

**Social Network Data Analytics** ,2011-07-11 *Python Social Media Analytics* Siddhartha Chatterjee,Michal Krystyanczuk,2017-07-28

Leverage the power of Python to collect process and mine deep insights from social media data About This Book Acquire data from various social media platforms such as Facebook Twitter YouTube GitHub and more Analyze and extract actionable insights from your social data using various Python tools A highly practical guide to conducting efficient social media analytics at scale Who This Book Is For If you are a programmer or a data analyst familiar with the Python programming language and want to perform analyses of your social data to acquire valuable business insights this book is for you The book does not assume any prior knowledge of any data analysis tool or process What You Will Learn Understand the basics of social media mining Use PyMongo to clean store and access data in MongoDB Understand user reactions and emotion detection on Facebook Perform Twitter sentiment analysis and entity recognition using Python Analyze video and campaign performance on YouTube Mine popular trends on GitHub and predict the next big technology Extract conversational topics on public internet forums Analyze user interests on Pinterest Perform large scale social media analytics on the cloud In Detail Social Media platforms such as Facebook Twitter Forums Pinterest and YouTube have become part of everyday life in a big way However these complex and noisy data streams pose a potent challenge to everyone when it comes to harnessing them properly and benefiting from them This book will introduce you to the concept of social media analytics and how you can leverage its capabilities to empower your business Right from acquiring data from various social networking sources such as Twitter Facebook YouTube Pinterest and social forums you will see how to clean data and make it ready for analytical operations using various Python APIs This book explains how to structure the clean data obtained and store in MongoDB using PyMongo You will also perform web scraping and visualize data using Scrappy and BeautifulSoup Finally you will be introduced to different techniques to perform analytics at scale for your social data on the cloud using Python and Spark By the end of this book you will be able to utilize the power of Python to gain valuable insights from social media data and use them to enhance your business processes Style and approach This book follows a step by step approach to teach readers the concepts of social media analytics using the Python programming language To explain various data analysis processes real world datasets are used wherever required

*Data Analytics for Social Microblogging Platforms* Soumi Dutta,Asit Kumar Das,Saptarshi Ghosh,Debabrata Samanta,2022-11-04 Data Analysis for Social Microblogging Platforms explores the nature of microblog datasets also covering the larger field which focuses on information data and knowledge in the context of natural language processing The book investigates a range of significant computational techniques which enable data and computer scientists to recognize patterns in these vast datasets including machine learning data mining algorithms rough set and fuzzy

set theory evolutionary computations combinatorial pattern matching clustering summarization and classification Chapters focus on basic online micro blogging data analysis research methodologies community detection summarization application development performance evaluation and their applications in big data Investigates various methodologies and algorithms for data summarization clustering and classification Covers both theory and practical applications from around the world across all related disciplines of Intelligent Information Filtering and Organization Systems Explores different challenges and issues related to spam filtering attribute selection and classification for large datasets

## **Social Network Data Analytics Social Network Data Analytics** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Social Network Data Analytics Social Network Data Analytics**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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## **Social Network Data Analytics Social Network Data Analytics Introduction**

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