Networkx - Network Analysis In Python: Node Importance & Paths

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RS Peters

Networkx Network Analysis With Python:

 Complex Network Analysis in Python Dmitry Zinoviev,2018   **Network Science with Python and NetworkX Quick Start Guide** Edward L. Platt,2019-04-26 Manipulate and analyze network data with the power of Python and NetworkX Key FeaturesUnderstand the terminology and basic concepts of network scienceLeverage the power of Python and NetworkX to represent data as a networkApply common techniques for working with network data of varying sizesBook Description NetworkX is a leading free and open source package used for network science with the Python programming language NetworkX can track properties of individuals and relationships find communities analyze resilience detect key network locations and perform a wide range of important tasks With the recent release of version 2 NetworkX has been updated to be more powerful and easy to use If you re a data scientist engineer or computational social scientist this book will guide you in using the Python programming language to gain insights into real world networks Starting with the fundamentals you ll be introduced to the core concepts of network science along with examples that use real world data and Python code This book will introduce you to theoretical concepts such as scale free and small world networks centrality measures and agent based modeling You ll also be able to look for scale free networks in real data and visualize a network using circular directed and shell layouts By the end of this book you ll be able to choose appropriate network representations use NetworkX to build and characterize networks and uncover insights while working with real world systems What you will learnUse Python and NetworkX to analyze the properties of individuals and relationshipsEncode data in network nodes and edges using NetworkXManipulate store and summarize data in network nodes and edgesVisualize a network using circular directed and shell layoutsFind out how simulating behavior on networks can give insights into real world problemsUnderstand the ongoing impact of network science on society and its ethical considerationsWho this book is for If you are a programmer or data scientist who wants to manipulate and analyze network data in Python this book is perfect for you Although prior knowledge of network science is not necessary some Python programming experience will help you understand the concepts covered in the book easily   **Complex Network Analysis in Python** Dmitry Zinoviev,2018-01-29 Construct analyze and visualize networks with networkx a Python language module Network analysis is a powerful tool you can apply to a multitude of datasets and situations Discover how to work with all kinds of networks including social product temporal spatial and semantic networks Convert almost any real world data into a complex network such as recommendations on co using cosmetic products muddy hedge fund connections and online friendships Analyze and visualize the network and make business decisions based on your analysis If you re a curious Python programmer a data scientist or a CNA specialist interested in mechanizing mundane tasks you ll increase your productivity exponentially Complex network analysis used to be done by hand or with non programmable network analysis tools but not anymore You can now automate and program these tasks in Python Complex networks are collections of connected items words concepts or people By exploring their

structure and individual elements we can learn about their meaning evolution and resilience Starting with simple networks convert real life and synthetic network graphs into networkx data structures Look at more sophisticated networks and learn more powerful machinery to handle centrality calculation blockmodeling and clique and community detection Get familiar with presentation quality network visualization tools both programmable and interactive such as Gephi a CNA explorer Adapt the patterns from the case studies to your problems Explore big networks with NetworKit a high performance networkx substitute Each part in the book gives you an overview of a class of networks includes a practical study of networkx functions and techniques and concludes with case studies from various fields including social networking anthropology marketing and sports analytics Combine your CNA and Python programming skills to become a better network analyst a more accomplished data scientist and a more versatile programmer What You Need You will need a Python 3 x installation with the following additional modules Pandas 0 18 NumPy 1 10 matplotlib 1 5 networkx 1 11 python louvain 0 5 NetworKit 3 6 and generalizesimilarity We recommend using the Anaconda distribution that comes with all these modules except for python louvain NetworKit and generalizedsimilarity and works on all major modern operating systems **Python for Graph and Network Analysis** Mohammed Zuhair Al-Taie,Seifedine Kadry,2017-03-20 This research monograph provides the means to learn the theory and practice of graph and network analysis using the Python programming language The social network analysis techniques included will help readers to efficiently analyze social data from Twitter Facebook LiveJournal GitHub and many others at three levels of depth ego group and community They will be able to analyse militant and revolutionary networks and candidate networks during elections For instance they will learn how the Ebola virus spread through communities Practically the book is suitable for courses on social network analysis in all disciplines that use social methodology In the study of social networks social network analysis makes an interesting interdisciplinary research area where computer scientists and sociologists bring their competence to a level that will enable them to meet the challenges of this fast developing field Computer scientists have the knowledge to parse and process data while sociologists have the experience that is required for efficient data editing and interpretation Social network analysis has successfully been applied in different fields such as health cyber security business animal social networks information retrieval and communications

ICT Systems and Sustainability Milan Tuba,Shyam Akashe,Amit Joshi,2025-12-25 This book proposes new technologies and discusses future solutions for ICT design infrastructures as reflected in high quality papers presented at the 10th International Conference on ICT for Sustainable Development ICT4SD 2025 held in Goa India on 17 19 July 2025 The book covers topics such as big data and data mining data fusion IoT programming toolkits and frameworks green communication systems and network use of ICT in smart cities sensor networks and embedded system network and information security wireless and optical networks security trust and privacy routing and control protocols cognitive radio and networks and natural language processing Bringing together experts from different countries the book explores a range of central issues

from an international perspective *Computer Security – ESORICS 2023* Gene Tsudik,Mauro Conti,Kaitai Liang,Georgios Smaragdakis,2024-01-10 The four volume set LNCS 14344 14347 constitutes the refereed proceedings of the 28th European Symposium on Research in Computer Security ESORICS 2023 which took place in The Hague The Netherlands during September 25 29 2023 The 93 full papers presented in these proceedings were carefully reviewed and selected from 478 submissions They were organized in topical sections as follows Part I Crypto Part II Network web and internet privacy and remote Part III Attacks blockchain and miscellaneous Part IV Machine learning software and systems security *Database and Expert Systems Applications* Christine Strauss,Toshiyuki Amagasa,Gabriele Kotsis,A Min Tjoa,Ismail Khalil,2023-08-17 The two volume set LNCS 14146 and 14147 constitutes the thoroughly refereed proceedings of the 34th International Conference on Database and Expert Systems Applications DEXA 2023 held in Penang Malaysia in August 2023 The 49 full papers presented together with 35 short papers were carefully reviewed and selected from a total of 155 submissions The papers are organized in topical sections as follows Part I Data modeling database design query optimization knowledge representation Part II Rule based systems natural language processing deep learning neural networks Social Network Analytics for Contemporary Business Organizations Bansal, Himani,Shrivastava, Gulshan,Nguyen, Gia Nhu,Stanciu, Loredana-Mihaela,2018-03-23 Social technology is quickly becoming a vital tool in our personal educational and professional lives Its use must be further examined in order to determine the role of social media technology in organizational settings to promote business development and growth Social Network Analytics for Contemporary Business Organizations is a critical scholarly resource that analyzes the application of social media in business applications Featuring coverage on a broad range of topics such as business management dynamic networks and online interaction this book is geared towards professionals researchers academics students managers and practitioners actively involved in the business industry **Analysing Users' Interactions with Khan Academy Repositories** Sahar Yassine,Seifedine Kadry,Miguel-Ángel Sicilia,2021-11-15 This book addresses the need to explore user interaction with online learning repositories and the detection of emergent communities of users This is done through investigating and mining the Khan Academy repository a free open access popular online learning repository addressing a wide content scope It includes large numbers of different learning objects such as instructional videos articles and exercises The authors conducted descriptive analysis to investigate the learning repository and its core features such as growth rate popularity and geographical distribution The authors then analyzed this graph and explored the social network structure studied two different community detection algorithms to identify the learning interactions communities emerged in Khan Academy then compared between their effectiveness They then applied different SNA measures including modularity density clustering coefficients and different centrality measures to assess the users behavior patterns and their presence By applying community detection techniques and social network analysis the authors managed to identify learning communities in Khan Academy s network The size distribution of those communities found to

follow the power law distribution which is the case of many real world networks Despite the popularity of online learning repositories and their wide use the structure of the emerged learning communities and their social networks remain largely unexplored This book could be considered initial insights that may help researchers and educators in better understanding online learning repositories the learning process inside those repositories and learner behavior   *Computational Literacy for the Humanities* Zef Segal,Nurit Melnik,2025-06-23 Computational Literacy for the Humanities provides an introduction to mathematics and programming that is specifically designed for use by those engaged in the humanities Linking mathematical concepts and computational skills the chapters in this book explore humanistic questions from diverse fields such as art history and literature The book helps to advance computational and digital literacy by showing that each mathematical concept has a history and each technique has a meaning Rather than viewing mathematics and computer programming as purely instrumental they are integrated into the process of achieving greater understanding of humanistic phenomena Algorithms data statistics and networks are taught critically within the book whilst the authors also make a concerted effort to expose the internal biases of these tools They also demonstrate the applicability of quantification and computation for the promotion of diversification and inclusivity within the humanities All exercises are designed as an opportunity to gain hands on mathematical and computational experience whilst critically exploring and interpreting humanistic phenomena Computational Literacy for the Humanities shows readers how to engage with data in a way that is challenging yet meaningful and empowering It will be of interest to scholars and students working across the humanities and should be of particular interest to those working in digital humanities   Semantic Web Technologies Archana Patel,Narayan C. Debnath,Bharat Bhushan,2022-10-17 Semantic web technologies SWTs offer the richest machine interpretable rather than just machine processable and explicit semantics that are being extensively used in various domains and industries This book provides a roadmap for semantic web technologies SWTs and highlights their role in a wide range of domains including cloud computing Internet of Things big data sensor network and so forth It also explores the prospects of these technologies including different data interchange formats query languages ontologies Linked Data and notations The role of SWTs in epidemic Covid 19 e learning platforms and systems block chain open online courses and visual analytics in healthcare is described as well This book Explores all the critical aspects of semantic web technologies SWTs Discusses the impact of SWTs on cloud computing Internet of Things big data and sensor network Offers a comprehensive examination of the emerging research in the areas of SWTs and their related domains Provides a template to develop a wide range of smart and intelligent applications Includes latest applications and examples with real data This book is aimed at researchers and graduate students in computer science informatics web technology cloud computing and Internet of Things   **Mining Influence in Recommender Systems** Al Mumunur Rashid,2007   Exploring Network Structure, Dynamics, and Function Using Networkx ,2008 NetworkX is a Python language package for exploration and analysis of networks and network

algorithms The core package provides data structures for representing many types of networks or graphs including simple graphs directed graphs and graphs with parallel edges and self loops The nodes in NetworkX graphs can be any hashable Python object and edges can contain arbitrary data this flexibility mades NetworkX ideal for representing networks found in many different scientific fields In addition to the basic data structures many graph algorithms are implemented for calculating network properties and structure measures shortest paths betweenness centrality clustering and degree distribution and many more NetworkX can read and write various graph formats for eash exchange with existing data and provides generators for many classic graphs and popular graph models such as the Erdoes Renyi Small World and Barabasi Albert models are included The ease of use and flexibility of the Python programming language together with connection to the SciPy tools make NetworkX a powerful tool for scientific computations We discuss some of our recent work studying synchronization of coupled oscillators to demonstrate how NetworkX enables research in the field of computational networks

Data-Driven Security Jay Jacobs,Bob Rudis,2014-02-24 Uncover hidden patterns of data and respond with countermeasures Security professionals need all the tools at their disposal to increase their visibility in order to prevent security breaches and attacks This careful guide explores two of the most powerful data analysis and visualization You ll soon understand how to harness and wield data from collection and storage to management and analysis as well as visualization and presentation Using a hands on approach with real world examples this book shows you how to gather feedback measure the effectiveness of your security methods and make better decisions Everything in this book will have practical application for information security professionals Helps IT and security professionals understand and use data so they can thwart attacks and understand and visualize vulnerabilities in their networks Includes more than a dozen real world examples and hands on exercises that demonstrate how to analyze security data and intelligence and translate that information into visualizations that make plain how to prevent attacks Covers topics such as how to acquire and prepare security data use simple statistical methods to detect malware predict rogue behavior correlate security events and more Written by a team of well known experts in the field of security and data analysis Lock down your networks prevent hacks and thwart malware by improving visibility into the environment all through the power of data and Security Using Data Analysis Visualization and Dashboards

Social Network Analysis for Startups Maksim Tsvetovat,Alexander Kouznetsov,2011-09-27 Does your startup rely on social network analysis This concise guide provides a statistical framework to help you identify social processes hidden among the tons of data now available Social network analysis SNA is a discipline that predates Facebook and Twitter by 30 years Through expert SNA researchers you ll learn concepts and techniques for recognizing patterns in social media political groups companies cultural trends and interpersonal networks You ll also learn how to use Python and other open source tools such as NetworkX NumPy and Matplotlib to gather analyze and visualize social data This book is the perfect marriage between social network theory and practice and a valuable source of insight and ideas Discover how internal social networks

affect a company s ability to perform Follow terrorists and revolutionaries through the 1998 Khobar Towers bombing the 9 11 attacks and the Egyptian uprising Learn how a single special interest group can control the outcome of a national election Examine relationships between companies through investment networks and shared boards of directors Delve into the anatomy of cultural fads and trends offline phenomena often mediated by Twitter and Facebook **Network Science with Python** David Knickerbocker,2023-02-28 Discover the use of graph networks to develop a new approach to data science using theoretical and practical methods with this expert guide using Python printed in color Key FeaturesCreate networks using data points and informationLearn to visualize and analyze networks to better understand communitiesExplore the use of network data in both supervised and unsupervised machine learning projectsPurchase of the print or Kindle book includes a free PDF eBookBook Description Network analysis is often taught with tiny or toy data sets leaving you with a limited scope of learning and practical usage Network Science with Python helps you extract relevant data draw conclusions and build networks using industry standard practical data sets You ll begin by learning the basics of natural language processing network science and social network analysis then move on to programmatically building and analyzing networks You ll get a hands on understanding of the data source data extraction interaction with it and drawing insights from it This is a hands on book with theory grounding specific technical and mathematical details for future reference As you progress you ll learn to construct and clean networks conduct network analysis egocentric network analysis community detection and use network data with machine learning You ll also explore network analysis concepts from basics to an advanced level By the end of the book you ll be able to identify network data and use it to extract unconventional insights to comprehend the complex world around you What you will learnExplore NLP network science and social network analysisApply the tech stack used for NLP network science and analysisExtract insights from NLP and network dataGenerate personalized NLP and network projectsAuthenticate and scrape tweets connections the web and data streamsDiscover the use of network data in machine learning projectsWho this book is for Network Science with Python demonstrates how programming and social science can be combined to find new insights Data scientists NLP engineers software engineers social scientists and data science students will find this book useful An intermediate level of Python programming is a prerequisite Readers from both social science and programming backgrounds will find a new perspective and add a feather to their hat *Social Network Analysis dengan Python NetworkX dan Pajek: Dilengkapi AI/ML dan Implementasi serta Deployment ke Google Cloud Menggunakan Express.js dan Node.js* Esther Irawati Setiawan,Joan Santoso,Mauridhi Hery Purnomo,2024-09-03 Buku Social Network Analysis dengan Python NetworkX dan Pajek Dilengkapi AI ML dan Implementasi serta Deployment ke Google Cloud Menggunakan Express js dan Node js memberikan panduan lengkap tentang Social Network Analysis SNA Buku ini mengulas tentang pengantar SNA hubungan jenis jaringan dan sejarah singkat SNA Selanjutnya buku ini menjelaskan teknik visualisasi jaringan dan format file Pajek Pembaca juga akan mempelajari metode pengukuran jaringan dan centrality serta struktur

jaringan seperti komponen dyad triad dan clique Buku ini menyediakan panduan untuk menerapkan dan mendistribusikan layanan web SNA menggunakan Node js Express js dan Puppeteer di Google Cloud Selain itu buku ini mengulas teknik clustering seperti markov clustering dan minimum spanning tree dengan bantuan NetworkX dan VisJS Ditutup dengan studi kasus praktis menggunakan NetworkX buku ini cocok untuk pembaca yang ingin mendalami Social Network Analysis dengan pendekatan praktis dan teknologi modern **Graph Data Modeling in Python** Gary Hutson,Matt Jackson,2023-06-30 Learn how to transform store evolve refactor model and create graph projections using the Python programming language Purchase of the print or Kindle book includes a free PDF eBook Key Features Transform relational data models into graph data model while learning key applications along the way Discover common challenges in graph modeling and analysis and learn how to overcome them Practice real world use cases of community detection knowledge graph and recommendation network Book Description Graphs have become increasingly integral to powering the products and services we use in our daily lives driving social media online shopping recommendations and even fraud detection With this book you ll see how a good graph data model can help enhance efficiency and unlock hidden insights through complex network analysis Graph Data Modeling in Python will guide you through designing implementing and harnessing a variety of graph data models using the popular open source Python libraries NetworkX and igraph Following practical use cases and examples you ll find out how to design optimal graph models capable of supporting a wide range of queries and features Moreover you ll seamlessly transition from traditional relational databases and tabular data to the dynamic world of graph data structures that allow powerful path based analyses As well as learning how to manage a persistent graph database using Neo4j you ll also get to grips with adapting your network model to evolving data requirements By the end of this book you ll be able to transform tabular data into powerful graph data models In essence you ll build your knowledge from beginner to advanced level practitioner in no time What you will learn Design graph data models and master schema design best practices Work with the NetworkX and igraph frameworks in Python Store query ingest and refactor graph data Store your graphs in memory with Neo4j Build and work with projections and put them into practice Refactor schemas and learn tactics for managing an evolved graph data model Who this book is for If you are a data analyst or database developer interested in learning graph databases and how to curate and extract data from them this is the book for you It is also beneficial for data scientists and Python developers looking to get started with graph data modeling Although knowledge of Python is assumed no prior experience in graph data modeling theory and techniques is required Data Science and Complex Networks Guido Caldarelli,Alessandro Chessa,2016-11-10 This book provides a comprehensive yet short description of the basic concepts of Complex Network theory In contrast to other books the authors present these concepts through real case studies The application topics span from Foodwebs to the Internet the World Wide Web and the Social Networks passing through the International Trade Web and Financial time series The final part is devoted to definition and implementation of the most

important network models The text provides information on the structure of the data and on the quality of available datasets Furthermore it provides a series of codes to allow immediate implementation of what is theoretically described in the book Readers already used to the concepts introduced in this book can learn the art of coding in Python by using the online material To this purpose the authors have set up a dedicated web site where readers can download and test the codes The whole project is aimed as a learning tool for scientists and practitioners enabling them to begin working instantly in the field of Complex Networks **Data Science Essentials in Python** Dmitry Zinoviev,2016-08-10 Go from messy unstructured artifacts stored in SQL and NoSQL databases to a neat well organized dataset with this quick reference for the busy data scientist Understand text mining machine learning and network analysis process numeric data with the NumPy and Pandas modules describe and analyze data using statistical and network theoretical methods and see actual examples of data analysis at work This one stop solution covers the essential data science you need in Python Data science is one of the fastest growing disciplines in terms of academic research student enrollment and employment Python with its flexibility and scalability is quickly overtaking the R language for data scientific projects Keep Python data science concepts at your fingertips with this modular quick reference to the tools used to acquire clean analyze and store data This one stop solution covers essential Python databases network analysis natural language processing elements of machine learning and visualization Access structured and unstructured text and numeric data from local files databases and the Internet Arrange rearrange and clean the data Work with relational and non relational databases data visualization and simple predictive analysis regressions clustering and decision trees See how typical data analysis problems are handled And try your hand at your own solutions to a variety of medium scale projects that are fun to work on and look good on your resume Keep this handy quick guide at your side whether you re a student an entry level data science professional converting from R to Python or a seasoned Python developer who doesn t want to memorize every function and option What You Need You need a decent distribution of Python 3 3 or above that includes at least NLTK Pandas NumPy Matplotlib Networkx SciKit Learn and BeautifulSoup A great distribution that meets the requirements is Anaconda available for free from www continuum io If you plan to set up your own database servers you also need MySQL www mysql com and MongoDB www mongodb com Both packages are free and run on Windows Linux and Mac OS

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Table of Contents Networkx Network Analysis With Python

1. Understanding the eBook Networkx Network Analysis With Python
    - The Rise of Digital Reading Networkx Network Analysis With Python
    - Advantages of eBooks Over Traditional Books
2. Identifying Networkx Network Analysis With Python
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Networkx Network Analysis With Python
    - User-Friendly Interface
4. Exploring eBook Recommendations from Networkx Network Analysis With Python
    - Personalized Recommendations
    - Networkx Network Analysis With Python User Reviews and Ratings
    - Networkx Network Analysis With Python and Bestseller Lists

Networkx Network Analysis With Python Introduction

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