

Xiaojin Zhu · Andrew B. Goldberg

Introduction to Semi-Supervised Learning

Introduction To Semi Supervised Learning Andrew Goldberg

Aurélien Muise, Amaury Yang



Introduction To Semi Supervised Learning Andrew Goldberg:

Introduction to Semi-Supervised Learning Xiaojin Zhu, Andrew B. Goldberg, 2022-05-31 Semi supervised learning is a learning paradigm concerned with the study of how computers and natural systems such as humans learn in the presence of both labeled and unlabeled data. Traditionally learning has been studied either in the unsupervised paradigm e.g. clustering outlier detection where all the data are unlabeled or in the supervised paradigm e.g. classification regression where all the data are labeled. The goal of semi supervised learning is to understand how combining labeled and unlabeled data may change the learning behavior and design algorithms that take advantage of such a combination. Semi supervised learning is of great interest in machine learning and data mining because it can use readily available unlabeled data to improve supervised learning tasks when the labeled data are scarce or expensive. Semi supervised learning also shows potential as a quantitative tool to understand human category learning where most of the input is self evidently unlabeled. In this introductory book we present some popular semi supervised learning models including self training mixture models co training and multiview learning graph based methods and semi supervised support vector machines. For each model we discuss its basic mathematical formulation. The success of semi supervised learning depends critically on some underlying assumptions. We emphasize the assumptions made by each model and give counterexamples when appropriate to demonstrate the limitations of the different models. In addition we discuss semi supervised learning for cognitive psychology. Finally we give a computational learning theoretic perspective on semi supervised learning and we conclude the book with a brief discussion of open questions in the field.

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Introduction to Semi-supervised Learning Xiaojin Zhu, Andrew B. Goldberg, 2009 Semi supervised learning is a learning paradigm concerned with the study of how computers and natural systems such as humans learn in the presence of both labeled and unlabeled data. Traditionally learning has been studied either in the unsupervised paradigm e.g. clustering outlier detection where all the data are unlabeled or in the supervised paradigm e.g. classification regression where all the data are labeled. The goal of semi supervised learning is to understand how combining labeled and unlabeled data may change the learning behavior and design algorithms that take advantage of such a combination. Semi supervised learning is of great interest in machine learning and data mining because it can use readily available unlabeled data to improve supervised learning tasks when the labeled data are scarce or expensive. Semi supervised learning also shows potential as a quantitative tool to understand human category learning where most of the input is self evidently unlabeled. In this introductory book we present some popular semi supervised learning models including self training mixture models co training and multiview learning graph based methods and semi supervised support vector machines. For each model we discuss its basic mathematical formulation.

The success of semi supervised learning depends critically on some underlying assumptions We emphasize the assumptions made by each model and give counterexamples when appropriate to demonstrate the limitations of the different models In addition we discuss semi supervised learning for cognitive psychology Finally we give a computational learning theoretic perspective on semi supervised learning and we conclude the book with a brief discussion of open questions in the field Table of Contents Introduction to Statistical Machine Learning Overview of Semi Supervised Learning Mixture Models and EM Co Training Graph Based Semi Supervised Learning Semi Supervised Support Vector Machines Human Semi Supervised Learning Theory and Outlook *Graph-Based Semi-Supervised Learning* Amarnag Subramanya, Partha Pratim

Talukdar, 2022-05-31 While labeled data is expensive to prepare ever increasing amounts of unlabeled data is becoming widely available In order to adapt to this phenomenon several semi supervised learning SSL algorithms which learn from labeled as well as unlabeled data have been developed In a separate line of work researchers have started to realize that graphs provide a natural way to represent data in a variety of domains Graph based SSL algorithms which bring together these two lines of work have been shown to outperform the state of the art in many applications in speech processing computer vision natural language processing and other areas of Artificial Intelligence Recognizing this promising and emerging area of research this synthesis lecture focuses on graph based SSL algorithms e g label propagation methods Our hope is that after reading this book the reader will walk away with the following 1 an in depth knowledge of the current state of the art in graph based SSL algorithms and the ability to implement them 2 the ability to decide on the suitability of graph based SSL methods for a problem and 3 familiarity with different applications where graph based SSL methods have been successfully applied Table of Contents Introduction Graph Construction Learning and Inference Scalability Applications Future Work Bibliography Authors Biographies Index **Federated Learning** Qiang Yang, Yang Liu, Yong Cheng, Yan

Kang, Tianjian Chen, Han Yu, 2022-06-01 How is it possible to allow multiple data owners to collaboratively train and use a shared prediction model while keeping all the local training data private Traditional machine learning approaches need to combine all data at one location typically a data center which may very well violate the laws on user privacy and data confidentiality Today many parts of the world demand that technology companies treat user data carefully according to user privacy laws The European Union's General Data Protection Regulation GDPR is a prime example In this book we describe how federated machine learning addresses this problem with novel solutions combining distributed machine learning cryptography and security and incentive mechanism design based on economic principles and game theory We explain different types of privacy preserving machine learning solutions and their technological backgrounds and highlight some representative practical use cases We show how federated learning can become the foundation of next generation machine learning that caters to technological and societal needs for responsible AI development and application **Metric Learning** Aurélien Muisse, Amaury Yang, 2022-05-31 Similarity between objects plays an important role in both human cognitive

processes and artificial systems for recognition and categorization How to appropriately measure such similarities for a given task is crucial to the performance of many machine learning pattern recognition and data mining methods This book is devoted to metric learning a set of techniques to automatically learn similarity and distance functions from data that has attracted a lot of interest in machine learning and related fields in the past ten years In this book we provide a thorough review of the metric learning literature that covers algorithms theory and applications for both numerical and structured data We first introduce relevant definitions and classic metric functions as well as examples of their use in machine learning and data mining We then review a wide range of metric learning algorithms starting with the simple setting of linear distance and similarity learning We show how one may scale up these methods to very large amounts of training data To go beyond the linear case we discuss methods that learn nonlinear metrics or multiple linear metrics throughout the feature space and review methods for more complex settings such as multi task and semi supervised learning Although most of the existing work has focused on numerical data we cover the literature on metric learning for structured data like strings trees graphs and time series In the more technical part of the book we present some recent statistical frameworks for analyzing the generalization performance in metric learning and derive results for some of the algorithms presented earlier Finally we illustrate the relevance of metric learning in real world problems through a series of successful applications to computer vision bioinformatics and information retrieval

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Graph Representation Learning William L. Hamilton, 2022-06-01 Graph structured data is ubiquitous throughout the natural and social sciences from telecommunication networks to quantum chemistry Building relational inductive biases into deep learning architectures is crucial for creating systems that can learn reason and generalize from this kind of data Recent years have seen a surge in research on graph representation learning including techniques for deep graph embeddings generalizations of convolutional neural networks to graph structured data and neural message passing approaches inspired by belief propagation These advances in graph representation learning have led to new state of the art results in numerous domains including chemical synthesis 3D vision recommender systems question answering and social network analysis This book provides a synthesis and overview of graph representation learning It begins with a discussion of the goals of graph representation learning as well as key methodological foundations in graph theory and network analysis Following this the book introduces and reviews methods for learning node embeddings including random walk based methods and applications to knowledge graphs It then provides a technical synthesis and introduction to the highly successful graph neural network GNN formalism which has become a dominant and fast growing paradigm for deep learning with graph data The book concludes with a synthesis of recent advancements in deep generative models for graphs a nascent

but quickly growing subset of graph representation learning

Algorithms for Reinforcement Learning Csaba

Szepesvári, 2022-05-31 Reinforcement learning is a learning paradigm concerned with learning to control a system so as to maximize a numerical performance measure that expresses a long term objective What distinguishes reinforcement learning from supervised learning is that only partial feedback is given to the learner about the learner's predictions Further the predictions may have long term effects through influencing the future state of the controlled system Thus time plays a special role The goal in reinforcement learning is to develop efficient learning algorithms as well as to understand the algorithms' merits and limitations Reinforcement learning is of great interest because of the large number of practical applications that it can be used to address ranging from problems in artificial intelligence to operations research or control engineering In this book we focus on those algorithms of reinforcement learning that build on the powerful theory of dynamic programming We give a fairly comprehensive catalog of learning problems describe the core ideas note a large number of state of the art algorithms followed by the discussion of their theoretical properties and limitations Table of Contents Markov Decision Processes Value Prediction Problems Control For Further Exploration **Applying Reinforcement Learning on**

Real-World Data with Practical Examples in Python Philip Osborne, Kajal Singh, Matthew E. Taylor, 2022-05-20

Reinforcement learning is a powerful tool in artificial intelligence in which virtual or physical agents learn to optimize their decision making to achieve long term goals In some cases this machine learning approach can save programmers time outperform existing controllers reach super human performance and continually adapt to changing conditions It has shown human level performance on a number of tasks REF and the methodology for automation in robotics and self driving cars REF This book argues that these successes show reinforcement learning can be adopted successfully in many different situations including robot control stock trading supply chain optimization and plant control However reinforcement learning has traditionally been limited to applications in virtual environments or simulations in which the setup is already provided Furthermore experimentation may be completed for an almost limitless number of attempts risk free In many real life tasks applying reinforcement learning is not as simple as 1 data is not in the correct form for reinforcement learning 2 data is scarce and 3 automation has limitations in the real world Therefore this book is written to help academics domain specialists and data enthusiast alike to understand the basic principles of applying reinforcement learning to real world problems This is achieved by focusing on the process of taking practical examples and modeling standard data into the correct form required to then apply basic agents To further assist readers gain a deep and grounded understanding of the approaches the book shows hand calculated examples in full and then how this can be achieved in a more automated manner with code For decision makers who are interested in reinforcement learning as a solution but are not proficient the book includes simple non technical examples in the introduction and case studies section These provide context of what reinforcement learning offer but also the challenges and risks associated with applying it in practice Specifically these sections illustrate the

differences between reinforcement learning and other machine learning approaches as well as how well known companies have found success using the approach to their problems

Robot Learning from Human Teachers Sonia

Chernova, Andrea L. Thomaz, 2022-06-01 Learning from Demonstration LfD explores techniques for learning a task policy from examples provided by a human teacher The field of LfD has grown into an extensive body of literature over the past 30 years with a wide variety of approaches for encoding human demonstrations and modeling skills and tasks Additionally we have recently seen a focus on gathering data from non expert human teachers i e domain experts but not robotics experts In this book we provide an introduction to the field with a focus on the unique technical challenges associated with designing robots that learn from naive human teachers We begin in the introduction with a unification of the various terminology seen in the literature as well as an outline of the design choices one has in designing an LfD system Chapter 2 gives a brief survey of the psychology literature that provides insights from human social learning that are relevant to designing robotic social learners Chapter 3 walks through an LfD interaction surveying the design choices one makes and state of the art approaches in prior work First is the choice of input how the human teacher interacts with the robot to provide demonstrations Next is the choice of modeling technique Currently there is a dichotomy in the field between approaches that model low level motor skills and those that model high level tasks composed of primitive actions We devote a chapter to each of these Chapter 7 is devoted to interactive and active learning approaches that allow the robot to refine an existing task model And finally Chapter 8 provides best practices for evaluation of LfD systems with a focus on how to approach experiments with human subjects in this domain

Lifelong Machine Learning, Second Edition Zhiyuan Chen, Bing Liu, 2022-06-01

Lifelong Machine Learning Second Edition is an introduction to an advanced machine learning paradigm that continuously learns by accumulating past knowledge that it then uses in future learning and problem solving In contrast the current dominant machine learning paradigm learns in isolation given a training dataset it runs a machine learning algorithm on the dataset to produce a model that is then used in its intended application It makes no attempt to retain the learned knowledge and use it in subsequent learning Unlike this isolated system humans learn effectively with only a few examples precisely because our learning is very knowledge driven the knowledge learned in the past helps us learn new things with little data or effort Lifelong learning aims to emulate this capability because without it an AI system cannot be considered truly intelligent Research in lifelong learning has developed significantly in the relatively short time since the first edition of this book was published The purpose of this second edition is to expand the definition of lifelong learning update the content of several chapters and add a new chapter about continual learning in deep neural networks which has been actively researched over the past two or three years A few chapters have also been reorganized to make each of them more coherent for the reader Moreover the authors want to propose a unified framework for the research area Currently there are several research topics in machine learning that are closely related to lifelong learning most notably multi task learning transfer learning and meta

learning because they also employ the idea of knowledge sharing and transfer This book brings all these topics under one roof and discusses their similarities and differences Its goal is to introduce this emerging machine learning paradigm and present a comprehensive survey and review of the important research results and latest ideas in the area This book is thus suitable for students researchers and practitioners who are interested in machine learning data mining natural language processing or pattern recognition Lecturers can readily use the book for courses in any of these related fields

The Enigmatic Realm of **Introduction To Semi Supervised Learning Andrew Goldberg**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Introduction To Semi Supervised Learning Andrew Goldberg** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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