

CS- Data Mining

Credit Hours: 3(3-2)

Prerequisites:

None

Teacher:

Course Description:

This course serves as a guide to techniques and applications of data mining including Machine Learning and Data Mining, Classification and its methods, Knowledge representation, Data Preparation for Knowledge Discovery, decision trees etc.

Course Outcomes:

On completion of this module, students should be able to: Apply the specific concepts in real practice, Demonstrate specific methods in Data Mining; Demonstrate an understanding of the fundamental ideas of Knowledge Representation and Reasoning; Demonstrate an understanding of the principles of a number of different approaches in Machine Learning; Demonstrate the ability to apply AI and Computational Intelligence techniques to a variety of research and application projects.

Teaching Methodology:

Lectures, Assignments, Presentations, Course Project etc. Major component of the course should be covered using practical implementation of AI techniques.

Courses Assessment:

Exams, Assignments, Quizzes. Course will be assessed using a combination of written examinations.

Books &Reference Materials:

- Jiawei Han, Jian Pei, Hanghang Tong, Data Mining Concepts and Techniques 4th Edition - July 2, 2022.
- Dr. David L. Olson, Dr. Dursun Delen, Advanced Data Mining Techniques Latest Edition
- Witten and Eibe, Data Mining: Practical Machine Learning Tools and Techniques, Morgan Kaufmann, Latest Edition

Week 1	Introduction: Data Mining • Why Data Mining? • What Is Data Mining? • Knowledge Discovery (KDD) Process • What Technologies Are Used?	
Week 2	• Data Mining in Business Intelligence • KDD Process: A Typical View from ML and Statistics • Multi-Dimensional View of Data Mining • Data Mining: On What Kinds of Data? • What Kinds of Patterns Can Be Mined?	

Advanced Data Mining Course Outline

**Xiaochun Yang, Chang-Dong Wang, Md.
Saiful Islam, Zheng Zhang**

Advanced Data Mining Course Outline:

Advanced Data Mining and Applications Weitong Chen,Lina Yao,Taotao Cai,Shirui Pan,Tao Shen,Xue Li,2022-11-23 The two volume set LNAI 13725 and 13726 constitutes the proceedings of the 18th International Conference on Advanced Data Mining and Applications ADMA 2022 which took place in Brisbane Queensland Australia in November 2022 The 72 papers presented in the proceedings were carefully reviewed and selected from 198 submissions The contributions were organized in topical sections as follows Finance and Healthcare Web and IoT Applications On device Application Other Applications Pattern Mining Graph Mining Text Mining Image Multimedia and Time Series Data Mining Classification Clustering and Recommendation Multi objective Optimization Augmentation and Database and Others **Advanced Data Mining and Applications**

Xue Li,Shuliang Wang,2005-07-12 This book constitutes the refereed proceedings of the First International Conference on Advanced Data Mining and Applications ADMA 2005 held in Wuhan China in July 2005 The conference was focused on sophisticated techniques and tools that can handle new fields of data mining e g spatial data mining biomedical data mining and mining on high speed and time variant data streams an expansion of data mining to new applications is also strived for The 25 revised full papers and 75 revised short papers presented were carefully peer reviewed and selected from over 600 submissions The papers are organized in topical sections on association rules classification clustering novel algorithms text mining multimedia mining sequential data mining and time series mining web mining biomedical mining advanced applications security and privacy issues spatial data mining and streaming data mining **Advanced Data Mining and Applications**

Bohan Li,Lin Yue,Jing Jiang,Weitong Chen,Xue Li,Guodong Long,Fei Fang,Han Yu,2022-01-31 This book constitutes the proceedings of the 17th International Conference on Advanced Data Mining and Applications ADMA 2021 held in Sydney Australia in February 2022 The 26 full papers presented together with 35 short papers were carefully reviewed and selected from 116 submissions The papers were organized in topical sections in Part I including Healthcare Education Web Application and On device application The conference was originally planned for December 2021 but was postponed to 2022 **Advanced Data Mining Techniques**

David L. Olson,Dursun Delen,2008-01-01 This book covers the fundamental concepts of data mining to demonstrate the potential of gathering large sets of data and analyzing these data sets to gain useful business understanding The book is organized in three parts Part I introduces concepts Part II describes and demonstrates basic data mining algorithms It also contains chapters on a number of different techniques often used in data mining Part III focuses on business applications of data mining **Advanced Data Mining and Applications**

Jianxin Li,Sen Wang,Shaowen Qin,Xue Li,Shuliang Wang,2019-11-16 This book constitutes the proceedings of the 15th International Conference on Advanced Data Mining and Applications ADMA 2019 held in Dalian China in November 2019 The 39 full papers presented together with 26 short papers and 2 demo papers were carefully reviewed and selected from 170 submissions The papers were organized in topical sections named Data Mining Foundations Classification and Clustering

Methods Recommender Systems Social Network and Social Media Behavior Modeling and User Profiling Text and Multimedia Mining Spatial Temporal Data Medical and Healthcare Data Decision Analytics and Other Applications

Advanced Data Mining and Applications Hiroshi Motoda,Zhaohui Wu,Longbing Cao,Osmar Zaiane,Min Yao,Wei Wang,2013-12-16 The two volume set LNAI 8346 and 8347 constitutes the thoroughly refereed proceedings of the 9th International Conference on Advanced Data Mining and Applications ADMA 2013 held in Hangzhou China in December 2013 The 32 regular papers and 64 short papers presented in these two volumes were carefully reviewed and selected from 222 submissions The papers included in these two volumes cover the following topics opinion mining behavior mining data stream mining sequential data mining web mining image mining text mining social network mining classification clustering association rule mining pattern mining regression predication feature extraction identification privacy preservation applications and machine learning

Advanced Data Mining and Applications Gao Cong,Wen-Chih Peng,Wei Emma Zhang,Chengliang Li,Aixin Sun,2017-10-30 This book constitutes the refereed proceedings of the 13th International Conference on Advanced Data Mining and Applications ADMA 2017 held in Singapore in November 2017 The 20 full and 38 short papers presented in this volume were carefully reviewed and selected from 118 submissions The papers were organized in topical sections named database and distributed machine learning recommender system social network and social media machine learning classification and clustering methods behavior modeling and user profiling bioinformatics and medical data analysis spatio temporal data natural language processing and text mining data mining applications applications and demos

Advanced Data Mining and Applications Shuigeng Zhou,Songmao Zhang,George Karypis,2012-12-09 This book constitutes the refereed proceedings of the 8th International Conference on Advanced Data Mining and Applications ADMA 2012 held in Nanjing China in December 2012 The 32 regular papers and 32 short papers presented in this volume were carefully reviewed and selected from 168 submissions They are organized in topical sections named social media mining clustering machine learning algorithms and applications classification prediction regression and recognition optimization and approximation mining time series and streaming data Web mining and semantic analysis data mining applications search and retrieval information recommendation and hiding outlier detection topic modeling and data cube computing

Advanced Data Mining and Applications Xiaochun Yang,Chang-Dong Wang,Md. Saiful Islam,Zheng Zhang,2021-01-05 This book constitutes the proceedings of the 16th International Conference on Advanced Data Mining and Applications ADMA 2020 held in Foshan China in November 2020 The 35 full papers presented together with 14 short papers papers were carefully reviewed and selected from 96 submissions The papers were organized in topical sections named Machine Learning Text Mining Graph Mining Predictive Analytics Recommender Systems Privacy and Security Query Processing Data Mining Applications

Advanced Data Mining and Applications Jinyan Li,Xue Li,Shuliang Wang,Jianxin Li,Quan Z. Sheng,2016-11-17 This book constitutes the proceedings of the 12th International Conference on Advanced Data

Mining and Applications ADMA 2016 held in Gold Coast Australia in December 2016 The 70 papers presented in this volume were carefully reviewed and selected from 105 submissions The selected papers covered a wide variety of important topics in the area of data mining including parallel and distributed data mining algorithms mining on data streams graph mining spatial data mining multimedia data mining Web mining the Internet of Things health informatics and biomedical data mining

Advanced Data Mining Course Outline Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Advanced Data Mining Course Outline**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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