

# Showing Academic Performance Predictions during Term Planning: Effects on Students' Decisions, Behaviors, and Preferences

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## ABSTRACT

Course selection is a crucial activity for students as it directly impacts their workload and performance. It is also time-consuming, prone to subjectivity, and often carried out based on incomplete information. This task can, nevertheless, be assisted with computational tools, for instance, by predicting performance based on historical data. We investigate the effects of showing grade predictions to students through an interactive visualization tool. A qualitative study suggests that in the presence of predictions, students may focus too much on maximizing their performance, to the detriment of other factors such as the workload. A follow-up quantitative study explored whether these effects are mitigated by changing how predictions are conveyed. Our observations suggest the presence of a framing effect that induces students to put more effort into course selection when faced with more specific predictions. We discuss these and other findings and outline considerations for designing better data-driven course selection tools.

## CCS CONCEPTS

• Human-centered computing → Empirical studies in visualization.

## KEYWORDS

Visual learning analytics, academic performance predictions, framing effects, course selection, course recommendation.

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## 1 INTRODUCTION

Academic advising is a crucial aspect in the mission of any Higher Education Institution (HEI). One of its central components is course

recommendation. This is of paramount importance to students as proper course selection has a direct impact on their academic workload and overall performance [5].

Course recommendation is usually performed by a designated advisor who assists students in selecting the most appropriate courses for their upcoming term. This advice is based on the advisor's knowledge of the academic program and its history, as well as her ability to craft personalized recommendations from that information. The latter factor makes academic advising particularly challenging: Since each student's history and profile is unique, advisors are repeatedly challenged with previously unseen scenarios that require a thorough analysis. The challenge becomes tougher as advising must often occur within a short period of time [32], making course recommendations prone to errors and susceptible to subjective views. For example, an individual's learning experience may likely influence her perception of the difficulty of a given course. As students lack a global view of the study program, they also tend to make decisions based on the *vox populi*.

For all the reasons mentioned above, some efforts aim at assisting academic advising with data-based visualization tools (e.g., [18, 33]). The goal of such tools is not to replace the human advisor but to empower both students and advisors with complementary actionable advice based on a more objective view of the students' enrollment alternatives. That view can be based on official information about the study program (e.g., the courses' number of credits, their expected workload), the historical difficulty of the courses, and the student's historical performance.

A key aspect when designing such data-based tools is how to characterize the performance of students. This is due to the fact that the chosen metric may steer the students' attention to specific aspects of their professional instruction. The GPA, for example, is often seen as a key factor for success in the labor-market and there is a cultural tendency to frame college students based on it [65]. For this reason, it is not uncommon for students to try to maximize their GPA regardless of their actual development of knowledge, skills, or understanding [26]. Hence, the GPA has limitations in reflecting a student's academic performance. From a pedagogical perspective, performance metrics that seek to assess and develop the "21st century skills" [56] (critical thinking, collaboration, creativity, long-life learning, etc.), are more desirable. However, metrics of this kind are seldom collected by HEIs in a systematic fashion. Ultimately, the use of a specific performance metric in a data-based tool must observe any availability constraint. That is, it is dependent on the metrics readily available at the HEIs.

Regardless of the selected performance metric, visualization tools are promising for student-oriented course recommendation because

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# Predictions Of Academic Performance A Th

**Antonio Valle, Susana Rodríguez, Pedro  
Rosário, Mar Lorenzo Moledo**

## **Predictions Of Academic Performance A Th:**

New Challenges in the Research of Academic Achievement: Measures, Methods, and Results Juan Luis Castejon, José Carlos Núñez, Raquel Gilar-Corbi, Iván Manuel Jorrín Abellán, 2021-02-24      **Prediction of Successful Nursing Performance** Patricia M. Schwirian, 1978      **Psychodidactic Variables and Academic Performance in Physical Education** Antonio Baena Extremera, Antonio Granero-Gallegos, Raul Fernández Baños, 2021-05-31      **Intelligent Systems Design and Applications** Ajith Abraham, Aswani Kumar Cherukuri, Patricia Melin, Niketa Gandhi, 2019-04-11 This book highlights recent research on Intelligent Systems and Nature Inspired Computing It presents 212 selected papers from the 18th International Conference on Intelligent Systems Design and Applications ISDA 2018 and the 10th World Congress on Nature and Biologically Inspired Computing NaBIC which was held at VIT University India ISDA NaBIC 2018 was a premier conference in the field of Computational Intelligence and brought together researchers engineers and practitioners whose work involved intelligent systems and their applications in industry and the real world Including contributions by authors from over 40 countries the book offers a valuable reference guide for all researchers students and practitioners in the fields of Computer Science and Engineering      **A STUDY OF ACADEMIC ACHIEVEMENT IN RELATION TO PARENTAL BEHAVIOUR, SCHOOL ENVIRONMENT AND ADJUSTMENT OF SECONDARY SCHOOL TRIBAL STUDENTS IN ASSAM** Dr. Anindita Das, 2017-08-05 India is regarded as the most second largest tribal dominated country in the world The tribal people are intrinsic part of the national life which has been instrumental in contributing to the complex amalgam of national culture by their rich cultural heritage From thousands of years they survived in a natural environment with simple lifestyle and developed their cultural pattern which is congenial to their consequent physical and social environment Even the references of such tribal groups are found in the ancient literature of Ramayana and Mahabharata At present the tribal population of India falls into three main zones namely North Eastern Zone the Central Zone and the Southern Zone

Progressive Computational Intelligence, Information Technology and Networking Poonam Nandal, Mamta Dahiya, Meeta Singh, Arvind Dagur, Brijesh Kumar, 2025-07-22 Progressive Computational Intelligence Information Technology and Networking presents a rich and diverse collection of cutting edge research real world applications and innovative methodologies spanning across multiple domains of computer science artificial intelligence and emerging technologies This comprehensive volume brings together different scholarly chapters contributed by researchers practitioners and thought leaders from around the globe The book explores a wide array of topics including but not limited to machine learning deep learning cloud computing cybersecurity Internet of Things IoT blockchain natural language processing image processing and data analytics It addresses the practical implementation of technologies in sectors such as healthcare agriculture education smart cities environmental monitoring finance and more Each chapter delves into specific challenges frameworks and experimental outcomes making this book an essential reference for academicians researchers industry professionals and

students who aim to stay ahead in the rapidly evolving digital world      InECCE2019 Ahmad Nor Kasruddin Nasir, Mohd Ashraf Ahmad, Muhammad Sharfi Najib, Yasmin Abdul Wahab, Nur Aqilah Othman, Nor Maniha Abd Ghani, Addie Irawan, Sabira Khatun, Raja Mohd Taufika Raja Ismail, Mohd Mawardi Saari, Mohd Razali Daud, Ahmad Afif Mohd Faudzi, 2020-03-23 This book presents the proceedings of the 5th International Conference on Electrical Control Computer Engineering 2019 held in Kuantan Pahang Malaysia on 29th July 2019 Consisting of two parts it covers the conferences main foci Part 1 discusses instrumentation robotics and control while Part 2 addresses electrical power systems The book appeals to professionals scientists and researchers with experience in industry The conference provided a platform for professionals scientists and researchers with experience in industry      Dialogues in Middle Level Education Research Volume 2 David C. Virtue, 2023-04-28 This book echoes and enhances the generative dialogic knowledge building process that took place at the AMLE 2021 conference reflecting the way in which middle level researchers work collaboratively and draw ideas and inspiration for their studies from prior research and accounts of practice as well as their own experiences in the field Each of the five sections features a recent study presented at the roundtable session at the 2021 AMLE conference accompanied by two companion pieces offering different perspectives on the work In the latter the authors enrich and extend the original research by incorporating feedback from the conference session discussions revisiting their findings and conclusions considering alternative approaches to further research and proposing new or clarified implications for practice Addressing themes across theoretical frameworks and diversity of research design and with topics ranging from music education to teacher agency and the productive struggle the volume crucially presents and discusses recent innovations in the field with a view to prompting future research questions and deeper inquiry As such it will benefit researchers doctoral students and academics in the fields of middle level education educational research and specifically research methods in education Those interested in teaching and learning and adolescent development more broadly will also benefit from this volume      Recent Trends in Social and Behaviour Sciences Ford Lumban Gaol, Seifedine Kadry, Marie Taylor, Pak Shen Li, 2014-02-27 The human aspect plays an important role in the social sciences The behaviour of people has become a vital area of focus in the social sciences as well Recent Trends in Social and Behaviour Sciences contains papers that were originally presented at the International Congress on Interdisciplinary Behavior and Social Sciences held 4 5 November 201      **Using Traditional Design Methods to Enhance AI-Driven Decision Making** Nguyen, Tien V. T., Vo, Nhut T. M., 2024-01-10 In the rapidly evolving landscape of industrial activities artificial intelligence AI has emerged as a powerful force driving transformative change Among its many applications AI has proven to be instrumental in reducing processing costs associated with optimization challenges The intersection of AI with optimization and multi criteria decision making MCDM techniques has led to practical solutions in diverse fields such as manufacturing transportation finance economics and artificial intelligence Using Traditional Design Methods to Enhance AI Driven Decision Making delves into a wide array of topics related to

optimization decision making and their applications Drawing on foundational contributions system developments and innovative techniques the book explores the synergy between traditional design methods and AI driven decision making approaches The book is ideal for higher education faculty and administrators students of higher education librarians researchers graduate students and academicians Contributors are invited to explore a wide range of topics including the role of AI driven decision making in leadership trends in AI driven decision making in Industry 5 0 applications in various industries such as manufacturing transportation healthcare and banking services as well as AI driven optimization in mechanical engineering and materials

*Individual Differences and Personality* Colin Cooper,2020-09-30 *Individual Differences and Personality* provides a student friendly introduction to both classic and cutting edge research into personality mood motivation and intelligence and their applications in psychology and in fields such as health education and sporting achievement Including a new chapter on toxic personality traits and an additional chapter on applications in real life settings this fourth edition has been thoroughly updated and uniquely covers the necessary psychometric methodology needed to understand modern theories It also develops deep processing and effective learning by encouraging a critical evaluation of both older and modern theories and methodologies including the Dark Triad emotional intelligence and psychopathy Gardner s and hierarchical theories of intelligence and modern theories of mood and motivation are discussed and evaluated and the processes which cause people to differ in personality and intelligence are explored in detail Six chapters provide a non mathematical grounding in psychometric principles such as factor analysis reliability validity bias test construction and test use With self assessment questions further reading and a companion website including student and instructor resources this is the ideal resource for anyone taking modules on personality and individual differences

### **Covid-19 and beyond: From (forced) remote teaching and learning to ‘the new normal’ in higher education**

Rhoda Scherman,Gabriela Misca,David Ian Walker,Geneviève Pagé,2023-03-29 [Resources in Education](#) ,1984 [The Asian American Educational Experience](#) Donald Nakanishi,Tina Yamano,2014-04-04 The contributions to *The Asian American Educationalexperience* examine the most significant issues and concerns in the education of Asian Americans Contributors all leading experts in their fields provide theoretical discussions practical insights and recommendations historical perspectives and an analytical context for the many issues crucial to the education of this diverse population controversies in higher education over alleged admissions quotas stereotypes of Asian American students as whiz kids Asian Americans as the model minority bilingual education education of refugee and immigrant populations educational quality and equity Special emphasis is given to both the historic debates which have shaped the field and the concerns and challenges facing educators of Asian American students at both the K 12 and university level

[Web-based Support Systems](#) JingTao Yao,2010 The emerging interdisciplinary study of Web based support systems focuses on the theories technologies and tools for the design and implementation of Web based systems that support various human activities This book presents the state of the art in Web

based support systems WSS The research on WSS is multidisciplinary and focuses on supporting various human activities in different domains fields based on computer science information technology and Web technology The main goal is to take the opportunities of the Web to meet the challenges of the Web to extend the human physical limitations of information processing and to keep up with the advance of technology advances This book discusses the four types of existing research WSS for specific domains Web based applications techniques related to WSS and design and development of WSS This comprehensive wide ranging text will provide an invaluable insight into the state of the art in WSS for researchers and graduate students

Proceedings of the 3rd International Conference: Quantitative and Qualitative Methodologies in the Economic & Administrative Sciences (QMEAS 2013) Christos Frangos, *Soft Computing: Theories and Applications* Rajesh Kumar,Ajit Kumar Verma,Om Prakash Verma,Jitendra Rajpurohit,2025-10-02 The book is a collection of high quality papers presented at the International Conference on Soft Computing Theories and Applications SoCTA 2024 held at Malaviya National Institute of Technology MNIT Jaipur Rajasthan India during 27 29 December 2024 This book focuses on soft computing and how it can be applied to solve real world problems arising in various domains ranging from medicine and healthcare to supply chain management image processing and cryptanalysis The book offers valuable insights into soft computing for teachers and researchers alike the book inspires further research in this dynamic field

**Recent Advances in Sciences, Engineering, Information Technology & Management** Dinesh Goyal,Bhanu Pratap,Sandeep Gupta,Saurabh Raj,Rekha Rani Agrawal,Indra Kishor,2025-02-14 This conference covered various interdisciplinary areas such as applied science physics material science and engineering The audience got a chance to encircle the various interdisciplinary areas and people working on recent technologies in science engineering information technology and management It was based on the theme of converging interdisciplinary topics into a single platform which helped the participants to think beyond their area and increase their canvas of research

**Mining Intelligence and Knowledge Exploration** Seifedine Kadry,Rajendra Prasath,2023-09-23 This book constitutes the refereed post conference proceedings of the 9th International Conference on Mining Intelligence and Knowledge Exploration MIKE 2023 held in Kristiansand Norway during June 28 30 2023 The 22 full papers and 16 short papers included in this book were carefully reviewed and selected from 87 submissions They were grouped into various subtopics including Knowledge Exploration in IoT Medical Informatics Machine Learning Text Mining Natural Language Processing Cryptocurrency and Blockchain Application of Artificial Intelligence and other areas

**Homework, Learning and Academic Success: The Role of Family and Contextual Variables** Antonio Valle,Susana Rodríguez,Pedro Rosário,Mar Lorenzo Moledo,2020-02-24 The main purpose of this Research Topic is to analyze and identify the main family and contextual variables that are involved in the process of carrying out homework This will require studying the role played by teachers students and families in order to ensure that schoolwork is a useful learning tool Although the role of the student is obviously crucial in homework research has focused on the cumulative time spent by

the student carrying out homework However the time spent on homework is not in itself evidence of the student's involvement nor is time spent indicative of quality time Indeed an excess of time can sometimes denote low competence in a field of knowledge while spending less time on homework could be indicative of high competence It is more likely that a high dedication of time spent on homework reflects high motivation or comprehension deficits rather than commitment to learning or academic motivation In tandem with the role of the student teachers as responsible for prescribing homework assignments for students also become central players in the process of completing homework assignments The decisions that teachers make about homework prescriptions and the amount and type of tasks they set will determine to a large extent the quality of the homework process including the student's motivation and the student's level of engagement with homework Furthermore the fact that homework is useful interesting and motivating for students will depend on how the teacher prescribes those tasks and the connection established with classroom learning Teacher feedback also acquires particular relevance for this point by helping the students to accurately estimate the quality of their progress and overcome the difficulties they may have encountered in carrying out their homework Lastly the effectiveness of teacher feedback depends on its contribution to the student's educational progress and how that student will perform in the future In addition to the student who performs the task and the teacher who prescribes and corrects it we must not lose sight of parents' role Although there are discrepancies regarding the role that parents play in relation to homework it is evident that their implication has important consequences not only on the final result of those tasks but also on the very process of carrying them out Everything seems to indicate that the family environment and more specifically the support and feedback provided by parents is a factor that can determine the involvement of students in school duties In this way providing emotional support encouraging children to get involved can contribute positively to improving their motivation and interest in the performance of homework The objective of this Research Topic is to provide researchers and professionals in psychology and education settings with some of the most recent empirical evidence regarding the homework process its prescription and correction Overall we aim to cease making homework a source of conflict and controversy at the socio-educational level in order to provide useful instruments for improving the quality of student learning This work was developed with the financing of the research projects EDU2013 44062 P MINECO EDU2017 82984 P MEIC

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