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this book is a comprehensive guide to understanding and implementing cutting edge machine learning and deep learning techniques using python programming language written with both beginners and experienced developers in mind this book provides a thorough overview of the foundations of machine learning and deep learning including mathematical fundamentals optimization algorithms and neural networks starting with the basics of python programming this book gradually builds up to more advanced topics such as artificial neural networks convolutional neural networks and generative adversarial networks each chapter is filled with clear explanations practical examples and step by step tutorials that allow readers to gain a deep understanding of the underlying principles of machine learning and deep learning throughout the book readers will also learn how to use popular python libraries and packages including numpy pandas scikit learn tensorflow and keras to build and train powerful machine learning and deep learning models for a variety of real world applications such as regression and classification k means support vector machines and recommender systems whether you are a seasoned data scientist or a beginner looking to enter the world of machine learning this book is the ultimate resource for mastering these cutting edge technologies and taking your skills to the next level high school level of mathematical knowledge and all levels including entry level of programming skills are good to start all python codes are available at github com table of contents 1 introduction 1 1 artificial intelligence machine learning and deep learning 1 2 whom this book is for 1 3 how this book is organized 2 environments 2 1 source codes for this book 2 2 cloud environments 2 3 docker hosted on local machine 2 4 install on local machines 2 5 install required packages 3 math fundamentals 3 1 linear algebra 3 2 calculus 3 3 advanced functions 4 machine learning 4 1 linear regression 4 2 logistic regression 4 3 multinomial logistic regression 4 4 k means clustering 4 5 principal component analysis pca 4 6 support vector machine svm 4 7 k nearest neighbors 4 8 anomaly detection 4 9 artificial neural network ann 4 10 convolutional neural network cnn 4 11 recommendation system 4 12 generative adversarial network references about the author

i have written this book in an effort to explore how the history of pakistan has resulted in the critical problems weighing down its education system the book examines the questions why and how has a small elite class come to rule pakistan and how has their rule worsened the country s problems the focus will be to critically examine the elements of the pakistani national curriculum and madrasas and their effects on pakistani society the book

represents the fusion of my experiences in pakistan with extensive literature analysis interviews and textbook analysis this research began when i came to the united states in january 2015 through the sar program i wanted to know the answers to profoundly unsettling questions how can a society be so intolerant that a scholar educated solely in pakistan is disregarded and assassinated while many western educated scholars with traditional insular thoughts are not only appreciated but flourishing i wanted to know why pakistani elites have so much power and freedom while lower classes are profoundly oppressed elites who barely pay taxes have been in power for generations while those that pay taxes suffer from sky high inflation the influential religious leaders mostly belong to the elite class while their followers are mostly lower class ruling families and social classes mostly control appointed positions do those in power not have a responsibility to speak on issues of social justice rather than limiting themselves in claiming that theirs is the only true form of islam why don t they work to end the disparity of quality education between classes in pakistan instead many elites run their own lucrative elite islamic schools more importantly why do the ulama which literally means those who possess knowledge ilm particularly of islam maintain a tight hierarchical system in the madrasa islamic seminary community that rarely allows poor intelligent students to attain leadership positions why are the ulama silent in the face of ruthless murder of and discrimination against pakistani minorities book review pakistan educational reforms is a major study of education in pakistan and its national and madrasa curriculum that fosters national and religious sectarian divisions intolerance and conflicts dr amna afreen documents the political socio economic and religious causes limited government funding widespread poverty and illiteracy and the poor training and performance of teachers that have produced a failed educational system at urban and rural government and religious schools madrasa and offers a series of potential solutions and reforms john l esposito university professor and founding director of the alwaleed center for muslim christian understanding georgetown university

this book constitutes the refereed proceedings of the international conference on ict in teaching and learning ict 2012 held in hong kong china in july 2012 the 19 revised full papers presented were carefully reviewed and selected from numerous submissions they explore the use of information technology to improve learning and teaching and showcase innovative pedagogical practices the papers are organized in topical sections on the construct of student engagement and the applications of ict emerging pedagogies through ict applications of ict

in teaching and learning research case studies on ict in engaged learning and finally three papers on open textbooks which address the current problems with conventional textbooks in hong kong

a comprehensive text book by wolters kluwer lippincott covering all key features that are very helpful for the medical students

how can apps be used to foster learning with literacy across the curriculum this book offers both a theoretical framework for considering app affordances and practical ways to use apps to build students disciplinary literacies and to foster a wide range of literacy practices using apps for learning across the curriculum presents a wide range of different apps and also assesses their value features methods for and apps related to planning instruction and assessing student learning identifies favorite apps whose affordances are most likely to foster certain disciplinary literacies includes resources and apps for professional development provides examples of student learning in the classroom a website usingipads pbworks com with resources for teaching and further reading for each chapter a link to a blog for continuing conversations about topics in the book appsforlearningliteracies com and more enhance the usefulness of the book

this book offers balanced coverage of the technological solutions that contribute to the design of digital textbooks and contribute to achieving learning objectives offering an emphasis on assessment mechanisms and learning theory

focused on the dual aspects of access and quality this publication discusses the role of textbooks in facilitating quality education for all the book consists of reviews of the international perspectives as well as case studies on brazil russian federation and rwanda it also documents strategies that could help to optimise procedures of textbook development production and evaluation enhance textbooks pedagogical impact improve teachers selection of textbooks and raise textbook supply efficiently

this updated edition contains exciting new features including rbest evidence recommendations boxes and a free cd rom containing video clips of diabetes testing stress testing and all the illustrations from the book it also

features new chapters on complementary and alternative medicine and a visually appealing functional four color design and a full color insert

the guide school leaders need to reap the rewards of education s most exciting new trend flipping classrooms using class time for hands on learning and off loading the lecture portion of lessons to teacher created videos or other technology presentations assigned as homework is taking schools by storm but like all hot trends it is important to apply this innovation intelligently especially at the system wide level this book makes a persuasive case to leaders for the potential benefits of flipping backed by powerful data and compelling anecdotes this book covers data on positive student outcomes in terms of achievement and motivation how flipping gives teachers more time to work with students one on one and encourage peer learning ways flipping can benefit teacher learning and collaboration why flipping encourages students to take responsibility for their own learning how flipping engages students in 21st century skills ways flipping is budget and resource friendly with this book you can take a major step towards the future of education utilizing technology and advanced understanding of how students learn best flipped classrooms empower teachers to engage students in deeper learning this book gives readers ten reasons for joining forces to make this possibility a reality tom carroll president national commission on teaching and america s future i highly recommend this book for any educator interested in flipping the classroom to reinvent the learning process the stories show how flipping is energizing teachers and students with powerful results lisa schmucki founder and ceo edweb net

over the last few years internet and world wide use has skyrocketed and consequently many are interested in developing a site for personal or business use though creating a site has in the past been very complicated and primarily left to computer professionals the introduction of publishing programs such as microsoft frontpage has made site creation a possibility for almost anyone

an index to library and information science literature

the oxford textbook of old age psychiatry is the new edition of the much loved and highly popular multi author

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