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this book gives an overview of applications of machine learning ml in diverse fields of biological sciences including healthcare animal sciences agriculture and plant sciences

machine learning has major applications in process modelling computer vision signal processing speech recognition and language understanding and processing and life and health sciences it is increasingly used in understanding dna patterns and in precision medicine this book is divided into eight major sections each containing chapters that describe the application of ml in a certain field the book begins by giving an introduction to ml and the various ml methods it then covers interesting and timely aspects such as applications in genetics cell biology the study of plant pathogen interactions and animal behavior the book discusses computational methods for toxicity prediction of environmental chemicals and drugs which forms a major domain of research in the field of biology it is of relevance to post graduate students and researchers interested in exploring the interdisciplinary areas of use of machine learning and deep learning in life sciences

advances in biological science research a practical approach provides discussions on diverse research topics and methods in the biological sciences in a single platform this book provides the latest technologies advanced methods and untapped research areas involved in diverse fields of biological science research such as bioinformatics proteomics microbiology medicinal chemistry and marine science each chapter is written by renowned researchers in their respective fields of biosciences and includes future advancements in life science research discusses various research topics and methods in the biological sciences in a single platform comprises the latest updates in advanced research techniques protocols and methods in biological sciences incorporates the fundamentals advanced instruments and applications of life science experiments offers troubleshooting for many common problems faced while performing research experiments

editor biography dr rajeshwar p sinha is a professor of molecular biology at the centre of advanced study in botany banaras hindu university varanasi india he received his ph d in biotechnology form banaras hindu university varanasi india he is a fellow of the society for applied biotechnology india and recipient of the prestigious daad germany fellowship he has visited several countries such as argentina austria belgium canada china germany greece france italy japan luxembourg norway poland republic of korea spain switzerland the netherlands and united kingdom in the field of academics and research on one or the other scientific assignments he has over 23 years of research and teaching experience he has been working on effects of uv radiation on aquatic ecosystems and has concentrated on the effects on dna damage and repair phycobiliproteins mycosporine like amino acids and scytonemin induction in cyanobacteria and algae he is a life member of various national and international scientific societies and an editorial board member of several national and international scientific journals he has published over 200 original research papers reviews and book chapters and edited three books he is having an h index of 41 with over 6300 citations in reputed scientific journals including nature and science book description biological science primarily deals with the morphology physiology and biochemistry of living organisms including their distribution taxonomy evolution structure growth function and metabolism all living organisms undergo metabolism maintain homeostasis have the capacity to grow respond to stimuli communicate through various means reproduce and adapt to their environment through natural

selection the organisms that photosynthesize are the primary producers and represent life support systems from aesthetics to food to medicine the book deals with the topics pertaining to biotechnology molecular biology ecology plant pathology bionanotechnology and stress biology technology assisted research had led to the evolution of new disciplines of biological sciences with narrow specialization the requirement of food medicines natural products the quest to resolve and develop a better understanding of life and other biological processes need to conserve genes plants and ecosystems the apprehension of land water and the environment have led to the strengthening of traditional disciplines as well as the emergence of diverse disciplines such as stress biology molecular biology biotechnology and bioinformatics the chapters in this book impart the recent developments and the state of the art knowledge in biological sciences in addition this book provides newer techniques and uses for these tools in achieving the potential of biotechnology to understand some of the basic problems in biological sciences target audience this book is highly useful and must read for students researchers and professionals in botany biotechnology environmental sciences agriculture molecular biology and other streams of biological sciences

introduction to molecular biology focuses on the principles of polymer physics and chemistry and their applications to fundamental phenomena in biological sciences it examines the structure synthesis and function of nucleic acids and proteins as well as the physicochemical techniques necessary in determining the macromolecular structure the kinetics and mechanism of enzyme action the genetics of bacteria and their viruses and the genetic code it also considers the importance of precise quantitative analysis in biochemistry and biophysics the architecture and function of biological macromolecules and the unique mechanisms that regulate the cell s biological activity organized into five chapters this book begins with an overview of proteins and their functional activity from contractility and enzymatic catalysis to immunological activity formation of selectively permeable membranes and reversible binding and transport it explains how such functions are related to molecular interactions and therefore fall within the purview of molecular biology the book then proceeds with a discussion on the chemical structure of proteins and nucleic acids the physicochemical techniques in measuring molecular size and shape the mechanism of enzymatic reactions the functions of dna and rna and the mechanism of phase transition in polynucleotides this book is intended for both biologists and non biologists who want to be acquainted with the advances made in molecular biology molecular genetics and molecular biophysics during the 1950s and 1960s

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