



# Basics of Machine Learning

Learning Basics For Beginners United States 44 1507  
Machine Learning

**Bowker Editorial Staff,R R Bowker  
Publishing**



## **Learning Basics For Beginners United States 44 1507 Machine Learning:**

**Deep Learning in Computer Vision** Mahmoud Hassaballah, Ali Ismail Awad, 2020-03-23 Deep learning algorithms have brought a revolution to the computer vision community by introducing non traditional and efficient solutions to several image related problems that had long remained unsolved or partially addressed This book presents a collection of eleven chapters where each individual chapter explains the deep learning principles of a specific topic introduces reviews of up to date techniques and presents research findings to the computer vision community The book covers a broad scope of topics in deep learning concepts and applications such as accelerating the convolutional neural network inference on field programmable gate arrays fire detection in surveillance applications face recognition action and activity recognition semantic segmentation for autonomous driving aerial imagery registration robot vision tumor detection and skin lesion segmentation as well as skin melanoma classification The content of this book has been organized such that each chapter can be read independently from the others The book is a valuable companion for researchers for postgraduate and possibly senior undergraduate students who are taking an advanced course in related topics and for those who are interested in deep learning with applications in computer vision image processing and pattern recognition

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intelligence to learn and adapt without being explicitly programmed to perform a pre prescribed outcome It is a machine s ability to act on its own to learn Many forms of artificial intelligence use a wide variety of tactics to employ this including pattern recognition and unsupervised learning algorithms Currently there is a lot of excitement and focus on machine learning in the world of programming as it is often interpreted to imply a limitless future in artificial intelligence a world in which machines could adapt and respond to a wide variety of stimuli and factors without direct programming response from a human A world in which machines could learn and adapt on their own Often machine learning is seen as the missing human element in machines the ability for machines to start to fill the gap between what makes us human and what makes machines a sense of responsiveness and flexibility in a given environment and a set of circumstances By and large the goal of learning is to be able to generalize to take a set of lived circumstances and to be able to extrapolate a sense of patterning about what the future holds and how the person should respond to similar given situations Machine learning is similar it is the attempt to program machines so that they can generalize about future possibilities and probabilities based on data sets In short machine learning is the quest to get machines to think like humans This takes a wide variety of forms and is used for a wide variety of purposes In the following book we will explore the history of machine learning the academic and scientific elements that make up the study as well as touching on this moral and philosophical space that they occupy In this book you will find What is Machine Learning The History of Machine Learning Examples of Machine Learning How Does Machine Learning Work Common Approaches and Terms in Machine Learning Theoretical Computer Science Computational Learning Theory Association Rule Learning Pattern Recognition Deep Learning Induction Logic Reasoning Neural networks Expert Systems Naive Bayes Systems Unsupervised and supervised learning algorithms Decision Trees Random Decision Forests The Moral and Philosophical Implications of Machine Learning

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