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   Nota di contenuto   Intro -- Preface -- Acknowledgements -- Contents -- About the Author -- Acronyms -- Symbols -- 1 Introduction -- 1.1 Deep Learning as a Prominent Component of AI -- 1.2 Theory and Foundations of Deep Learning -- 1.3 The Chronicle of Deep Learning -- 1.4 Sample Projects for Deep Learning -- 1.5 The Databases for Deep Learning Projects -- 1.6 Awarded Papers on Deep Learning -- 1.7 Deep Learning Papers Published with Nature and Science -- 1.8 Organization of This Book -- 2 Deep Learning Platforms -- 2.1 Introduction -- 2.2 MATLAB for Deep Learning -- 2.3 TensorFlow for Deep Learning -- 2.4 Data Augmentation and Labeling -- 2.5 R for Deep Learning -- 2.6 Fundamental Mathematics -- Exercises -- 3 Convolutional Neural Networks and Recurrent Neural Networks -- 3.1 Multilayer Perceptron -- 3.2 Convolutional Neural Network and YOLO Models -- 3.2.1 Region-Based Convolutional Neural Network -- 3.2.2 Mask R-CNN -- 3.2.3 YOLO Models -- 3.2.4 Single Shot Multibox Detector -- 3.2.5 DenseNets and ResNets -- 3.2.6 Capsule Network -- 3.3 Recurrent Neural Networks and Time Series Analysis -- 3.3.1 Hidden Markov Model -- 3.3.2 Recurrent Neural Networks -- 3.3.3 Transformer Models -- 3.3.4 Generative Pre-trained Transformer Models -- 3.3.5 Time Series Analysis -- 3.4 Functional Analysis -- 3.4.1 Metric Space -- 3.4.2 Vector Space -- 3.4.3 Normed Space --

3.4.4 Hilbert Space -- Exercises -- 4 Generative Adversarial Networks and Siamese Nets -- 4.1 Generative Adversarial Networks -- 4.2 Siamese Neural Networks -- 4.3 Autoencoder -- 4.4 Regularizations -- 4.5 Information Theory -- Exercises -- 5 Reinforcement Learning -- 5.1 Introduction -- 5.2 Bellman Equation -- 5.3 Deep Q-Learning -- 5.4 Control Theory -- 5.4.1 Mathematical Control Theory -- 5.4.2 Stochastic Control Theory -- 5.4.3 Fuzzy Control Theory -- 5.5 Optimization -- 5.6 Data Fitting -- 5.7 Polynomials.
6 Manifold Learning and Graph Neural Network -- 6.1 Manifold Learning -- 6.2 Probabilistic Graphical Models -- 6.3 Boltzmann Machine -- 6.4 Graph Neural Networks -- 6.4.1 Machine Learning on Graphs -- 6.4.2 Node Embeddings -- 6.4.3 Deep Graph Neural Networks -- 6.4.4 Graph Generating -- Exercises -- 7 Transfer Learning and Ensemble Learning -- 7.1 Transfer Learning -- 7.1.1 Concepts of Transfer Learning -- 7.1.2 Taskonomy -- 7.2 Ensemble Learning -- 7.3 Knowledge Distillation -- Glossary -- Names in This Book -- Index.

2.	Record Nr.	UNINA9910975017403321
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Sommario/riassunto	The field of pediatric nutrition has developed into an area essential to components of academic pediatric program throughout the world. Among the pediatric texts available, none deals with the physiologic or pathophysiologic basis of nutrition in pediatr