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Titolo	Applied Machine Learning for Healthcare and Life Sciences Using AWS : Transformational AI Implementations for Biotech, Clinical, and Healthcare Organizations
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ISBN	9781523151530 1523151536 9781804619193 1804619191
Edizione	[1st ed.]
Descrizione fisica	1 online resource (224 pages)
Disciplina	006.3/1
Soggetti	Machine learning Artificial intelligence - Medical applications Cloud computing Web services Medical care - Computer simulation Life sciences - Computer simulation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Table of Contents Introducing Machine Learning and the AWS Machine Learning Stack Exploring Key AWS Machine Learning Services for Healthcare and Life Sciences Machine Learning for Patient Risk Stratification Using Machine Learning to Improve Operational Efficiency for Healthcare Providers Implementing Machine Learning for Healthcare Payors Implementing Machine Learning for Medical Devices and Radiology Images Applying Machine Learning to Genomics Applying Machine Learning to Molecular Data Applying Machine Learning to Clinical Trials and Pharmacovigilance Utilizing Machine Learning in the Pharmaceutical Supply Chain Understanding Common Industry Challenges and Solutions Understanding Current Industry Trends and Future Applications.

Sommario/riassunto

Build real-world artificial intelligence apps on AWS to overcome challenges faced by healthcare providers and payers, as well as pharmaceutical, life sciences research, and commercial organizations Key Features Learn about healthcare industry challenges and how machine learning can solve them Explore AWS machine learning services and their applications in healthcare and life sciences Discover practical coding instructions to implement machine learning for healthcare and life sciences Book Description While machine learning is not new, it's only now that we are beginning to uncover its true potential in the healthcare and life sciences industry. The availability of real-world datasets and access to better compute resources have helped researchers invent applications that utilize known AI techniques in every segment of this industry, such as providers, payers, drug discovery, and genomics. This book starts by summarizing the introductory concepts of machine learning and AWS machine learning services. You'll then go through chapters dedicated to each segment of the healthcare and life sciences industry. Each of these chapters has three key purposes -- First, to introduce each segment of the industry, its challenges, and the applications of machine learning relevant to that segment. Second, to help you get to grips with the features of the services available in the AWS machine learning stack like Amazon SageMaker and Amazon Comprehend Medical. Third, to enable you to apply your new skills to create an ML-driven solution to solve problems particular to that segment. The concluding chapters outline future industry trends and applications. By the end of this book, you'll be aware of key challenges faced in applying AI to healthcare and life sciences industry and learn how to address those challenges with confidence. What you will learn Explore the healthcare and life sciences industry Find out about the key applications of AI in different industry segments Apply AI to medical images, clinical notes, and patient data Discover security, privacy, fairness, and explainability best practices Explore the AWS ML stack and key AI services for the industry Develop practical ML skills using code and AWS services Discover all about industry regulatory requirements Who this book is for This book is specifically tailored toward technology decision-makers, data scientists, machine learning engineers, and anyone who works in the data engineering role in healthcare and life sciences organizations. Whether you want to apply machine learning to overcome common challenges in the healthcare and life science industry or are looking to understand the broader industry AI trends and landscape, this book is for you. This book is filled with hands-on examples for you to try as you learn about new AWS AI concepts.

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Autore	Ali Abid
Titolo	Tick and Tick-Borne Pathogens: Molecular and Immune Targets for Control Strategies
Pubbl/distr/stampa	Frontiers Media SA, 2020
Descrizione fisica	1 online resource (341 p.)
Soggetti	Physiology Science: general issues
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: frontiersin.org/about/contact