1. Record Nr. UNINA9910483568503321

Autore	Alla Sridhar
Titolo	Beginning MLOps with MLFlow : deploy models in aws sagemaker, google cloud, and microsoft azure / / Sridhar Alla, Suman Kalyan Adari
Pubbl/distr/stampa	Berkeley, California : , : APress, , [2021] ©2021
ISBN	1-4842-6549-1
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (XIV, 330 p. 267 illus.)
Disciplina	006.31
Soggetti	Computer software Machine learning
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Chapter 1: Getting Started: Data Analysis -- Chapter 2: Building Models -- Chapter 3: What Is MLOps? -- Chapter 4: Introduction to MLFlow -- Chapter 5: Deploying in AWS -- Chapter 6: Deploying in Azure -- Chapter 7: Deploying in Google -- Appendix A: a2ml.
Sommario/riassunto	Integrate MLOps principles into existing or future projects using MLFlow, operationalize your models, and deploy them in AWS SageMaker, Google Cloud, and Microsoft Azure. This book guides you through the process of data analysis, model construction, and training. The authors begin by introducing you to basic data analysis on a credit card data set and teach you how to analyze the features and their relationships to the target variable. You will learn how to build logistic regression models in scikit-learn and PySpark, and you will go through the process of hyperparameter tuning with a validation data set. You will explore three different deployment setups of machine learning models with varying levels of automation to help you better understand MLOps. MLFlow is covered and you will explore how to integrate MLOps into your existing code, allowing you to easily track metrics, parameters, graphs, and models. You will be guided through the process of deploying and querying your models with AWS SageMaker, Google Cloud, and Microsoft Azure. And you will learn how to integrate your MLOps setups using Databricks. You will: Perform basic data

analysis and construct models in scikit-learn and PySpark Train, test, and validate your models (hyperparameter tuning) Know what MLOps is and what an ideal MLOps setup looks like Easily integrate MLFlow into your existing or future projects Deploy your models and perform predictions with them on the cloud.