

AWSC-13 - PRACTICAL DATA SCIENCE WITH AMAZON SAGEMAKER

Categoria: Amazon Web Services

INFORMAZIONI SUL CORSO



Durata:
1 Giorni



Categoria:
Amazon Web
Services



Qualifica Istruttore:
AWS Authorized
Instructor



Dedicato a:
Professionista IT



Produttore:
AWS

OBIETTIVI

In this course, you will learn how to:

- Prepare a dataset for training
- Train and evaluate a Machine Learning model
- Automatically tune a Machine Learning model
- Prepare a Machine Learning model for production
- Think critically about Machine Learning model results

PREREQUISITI

- Familiarity with Python programming language
- Basic understanding of Machine Learning

CONTENUTI

Module 1: Introduction to machine learning

- Types of ML
- Job Roles in ML
- Steps in the ML pipeline

Module 2: Introduction to data prep and SageMaker

- Training and test dataset defined
- Introduction to SageMaker
- Demonstration: SageMaker console
- Demonstration: Launching a Jupyter notebook

Module 3: Problem formulation and dataset preparation

- Business challenge: Customer churn
- Review customer churn dataset

Module 4: Data analysis and visualization

- Demonstration: Loading and visualizing your dataset

- Exercise 1: Relating features to target variables
- Exercise 2: Relationships between attributes
- Demonstration: Cleaning the data

Module 5: Training and evaluating a model

- Types of algorithms
- XGBoost and SageMaker
- Demonstration: Training the data
- Exercise 3: Finishing the estimator definition
- Exercise 4: Setting hyper parameters
- Exercise 5: Deploying the model
- Demonstration: hyper parameter tuning with SageMaker
- Demonstration: Evaluating model performance

Module 6: Automatically tune a model

- Automatic hyper parameter tuning with SageMaker
- Exercises 6-9: Tuning jobs

Module 7: Deployment / production readiness

- Deploying a model to an endpoint
- A/B deployment for testing
- Auto Scaling
- Demonstration: Configure and test auto scaling
- Demonstration: Check hyper parameter tuning job
- Demonstration: AWS Auto Scaling
- Exercise 10-11: Set up AWS Auto Scaling

INFO

Esame: MLS-C01 - AWS Certified Machine Learning Specialty

Materiale didattico: Materiale didattico ufficiale AWS in formato digitale

Costo materiale didattico: incluso nel prezzo del corso a Calendario

Natura del corso: Operativo (previsti lab su PC)