

Using Oracle Machine Learning with Autonomous Database 2024 ELS

Oracle Cloud Infrastructure

DURATION

2 Days

MODULES

4 Lectures

COURSE CODE

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Course Overview

Use this as a launching point for exploring the rich capabilities of Oracle Machine Learning. Benefits to you In this course you will learn about the Oracle Machine Learning components and features available on Oracle Autonomous Database. The Oracle Machine Learning components highlighted include OML4SQL, OML4R, OML4Py, OML Notebooks, Oracle Data Miner, OML AutoML UI, and OML Services. Understand how you can take greater advantage of Oracle Autonomous Database for data science and machine learning from SQL, R, Python, and REST APIs and no-code user interfaces

What You Will Learn

- Table of
- Lesson 1: Oracle Machine Learning – Overview
- Cloud-Based Solutionfor Analytics
- El Tronics
- Oracle Autonomous Database
- Basic Machine Learning Flow
- OML: Introduction
- Machine Learning: Horizontal Use Cases
- Use Cases and Machine Learning Techniques
- Industry: Vertical Use Cases
- Lesson 2: Features
- Components
- Oracle Machine Learning
- Steps in the ML process
- Lesson 3: Introduction to Machine Learning for Python
- Oracle Machine Learningfor Python
- Features
- Advantages
- Lesson 4: Introduction to Machine Learning for R
- Features
- Advantages

- Terry's Business Problem
- El Tronics
- Accessing the Oracle Machine Learning Home Page
- Creating a New Project and Workspace
- Creating a New Project
- Selecting the New Project
- 9
- 10
- 11
- 12
- 14
- 15
- 16
- 17
- 18
- 19
- 21
- 22
- 26
- 27
- 28
- 29
- 30
- 33
- 35
- 36
- 39
- 40
- 41
- 42
- 44
- 45
- 47
- Using Oracle Machine Learning with Autonomous Database – 2024 3
- Creating a Workspace
- Lesson 6: Users in Workspaces in Oracle Machine Learning
- Managing Workspaces
- Workspace Permissions
- Workspace Permissions Types
- Workspace Permissions
- Moving a Project to a Different Workspace
- Lesson 7: Using the OML Scratchpad Notebook
- Scratchpad Notebooks
- Developing Code
- Simple SQL Queryin Scratchpad

- Example 1
- Example 2
- Exporting and Importing Notebooks
- Exporting a notebook: Example
- Lesson 8: Restrictions on SQL Commands
- Restrictions for Database Options
- Restrictions for Database Initialization Parameters
- Modifiable Initialization Parameters
- Lesson 9: Introduction to AutoML in Oracle Machine Learning
- Introduction to AutoML
- AutoML in OML4Py
- The OML AutoML UI Pipeline
- Algorithm Selection
- Feature Selection
- Model Tuning
- Lesson 10: AutoML with OML4Py
- AutoML in OML4Py
- Importing AutoML and Creating the DataFrame
- Algorithm Selection with OML4Py
- Algorithm Ranking with OML4Py: Example
- 48
- 51
- 52
- 53
- 54
- 55
- 56
- 57
- 58
- 59
- 60
- 61
- 62
- 63
- 64
- 65
- 67
- 69
- 70
- 71
- 72
- 73
- 74
- 75
- 76
- 77

- 79
- 80
- 81
- 82
- 83
- Using Oracle Machine Learning with Autonomous Database – 2024 4
- Feature Selection with OML4Py
- Feature Selection with OML4Py: Example
- Model Tuning with OML4Py
- Model Tuning with OML4Py: Example
- Model Selection with OML4Py
- Model Selection with OML4Py: Example
- Lesson 11: OML AutoML User Interface (UI)
- OML AutoML UI Experiment Pipeline
- OML AutoML UI Features
- Creating an AutoML UI Experiment
- Oracle Machine Learning Home Page: AutoML
- Creating an AutoML UI Experiment: Example
- Viewing AutoML Experiment Classification Metrics
- Deploying the AutoML Model
- Generating a notebook for the AutoML Model
- Creating a Notebook from the AutoML Model: Example
- Lesson 12: Notebooks
- Creating a Notebook
- OML Notebooks: Example
- Creating a Notebook
- Editing a Notebook
- Running a Notebook
- Lesson 13: Forms in Notebooks
- Creating Text Input Forms in Notebooks
- Creating Text Input Forms in Notebooks: Example
- Creating Select Forms in Notebooks
- Creating Select Forms in Notebooks: Example
- Creating Check Box Forms in Notebooks
- Creating Check Box Forms in Notebooks: Example
- Output Formats Supported by the SET SQLFORMAT Command
- Lesson 14: Versioning in Notebooks
- 84
- 85
- 86
- 87
- 88
- 89
- 91
- 93
- 94

- 95
- 97
- 98
- 100
- 101
- 103
- 104
- 107
- 115
- 111
- 115
- 116
- 121
- 125
- 126
- 128
- 129
- 131
- 132
- 134
- 135
- 137
- Using Oracle Machine Learning with Autonomous Database - 2024 5
- Versions of a Notebook
- Creating Multiple Versions of a Notebook
- Restore Version of a Notebook
- Creating Multiple Versions of a Notebook
- Lesson 15: Templates
- Templates Home Page
- Sharing a notebook by using Oracle Machine Learning templates
- Saving a notebook as a template in Oracle Machine Learning
- Personal Templates
- Lesson 16: Instantiating Notebooks from Templates
- Creating Notebooks from Templates
- Sharing Templates
- Sharing Templates: Example
- Editing Template Settings
- Shared Templates
- Shared Templates: Example
- Example Templates
- Example Templates: Example
- Lesson 17: Working with Jobs
- Objectives
- Jobs
- Oracle Machine Learning Jobs: Example
- Creating a Job

- Creating a Job: Example
- Viewing Job Logs
- Lesson 18: OML Data Monitoring User Interface (UI)
- Value of Data Monitoring
- Data Monitoring
- Data Drift
- Data Drift: Overall Metric
- Creating a Data Monitor
- 138
- 140
- 141
- 142
- 145
- 147
- 149
- 150
- 151
- 153
- 154
- 155
- 156
- 157
- 158
- 159
- 161
- 162
- 165
- 167
- 168
- 170
- 171
- 172
- 173
- 175
- 176
- 177
- 178
- 179
- 180
- Using Oracle Machine Learning with Autonomous Database – 2024 6
- Oracle Machine Learning Home Page: AutoML
- Creating a Data Monitor: Example
- Data Drift: Feature Statistics
- Individual Feature Statistics
- Lesson 19: OML Model Monitoring User Interface (UI)
- Value of Model Monitoring

- [Example Use Cases](#)
- [Concept Drift](#)
- [Model Monitoring](#)
- [Creating a Model Monitor](#)
- [Oracle Machine Learning Home Page: Model Monitors](#)
- [Creating a Model Monitor: Example](#)
- [Model Monitor Results: Model Drift](#)
- [Model Monitor Results: Metric](#)
- [Prediction Statistics](#)
- [Model Monitor Details: Feature Impact](#)
- [Model Monitor Details](#)
- [Lesson 20: Administering Oracle Machine Learning](#)
- [Administering OracleMachine Learning](#)
- [Workflow for Managing Oracle Machine Learning](#)
- [User Data](#)
- [User Data: Example1](#)
- [User Data: Example2](#)
- [Compute Resource](#)
- [Compute Resource: Example](#)
- [Creating User Accounts for Oracle Machine Learning](#)
- [Creating User Accounts for Oracle Machine Learning: Example](#)
- [Lesson 21: Connection Groups](#)