

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
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- 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
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- Managing Workspaces
- Workspace Permissions
- Workspace Permissions Types
- Workspace Permissions
- Moving a Project to a Different Workspace
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- Scratchpad Notebooks
- Developing Code
- Simple SQL Queryin Scratchpad

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- Exporting and Importing Notebooks
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- Restrictions for Database Options
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- Lesson 9: Introduction to AutoML in Oracle Machine Learning
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- AutoML in OML4Py
- The OML AutoML UI Pipeline
- Algorithm Selection
- Feature Selection
- Model Tuning
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- Importing AutoML and Creating the DataFrame
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