

ORACLE

Python Machine Learning in Oracle Autonomous ADB

Natwest Developer Session

—
July 2021



Pre-Requirement: Create your Free Trial Account

Access to next URL to create your Free Trial Account: https://bit.ly/free_tier_29july

Oracle Cloud Free Tier

Get started with...

Always-free access to essential services:

- Autonomous Database
- Virtual machines
- Object storage

Plus, \$300 of credits for 30 days to use on even more services:

- Container Engine for Kubernetes
- Analytics Cloud
- Data Integration

Account information

Country/Territory

First Name

Last Name

Email

☐ I am human

hCaptcha
Privacy - Terms

Verify my email

Put your EMAIL
whitelisted to create
your account

Pre-Requirement: Create your Free Trial Account

You should see the next message if your mail has been whitelisted.

Special Oracle Offer

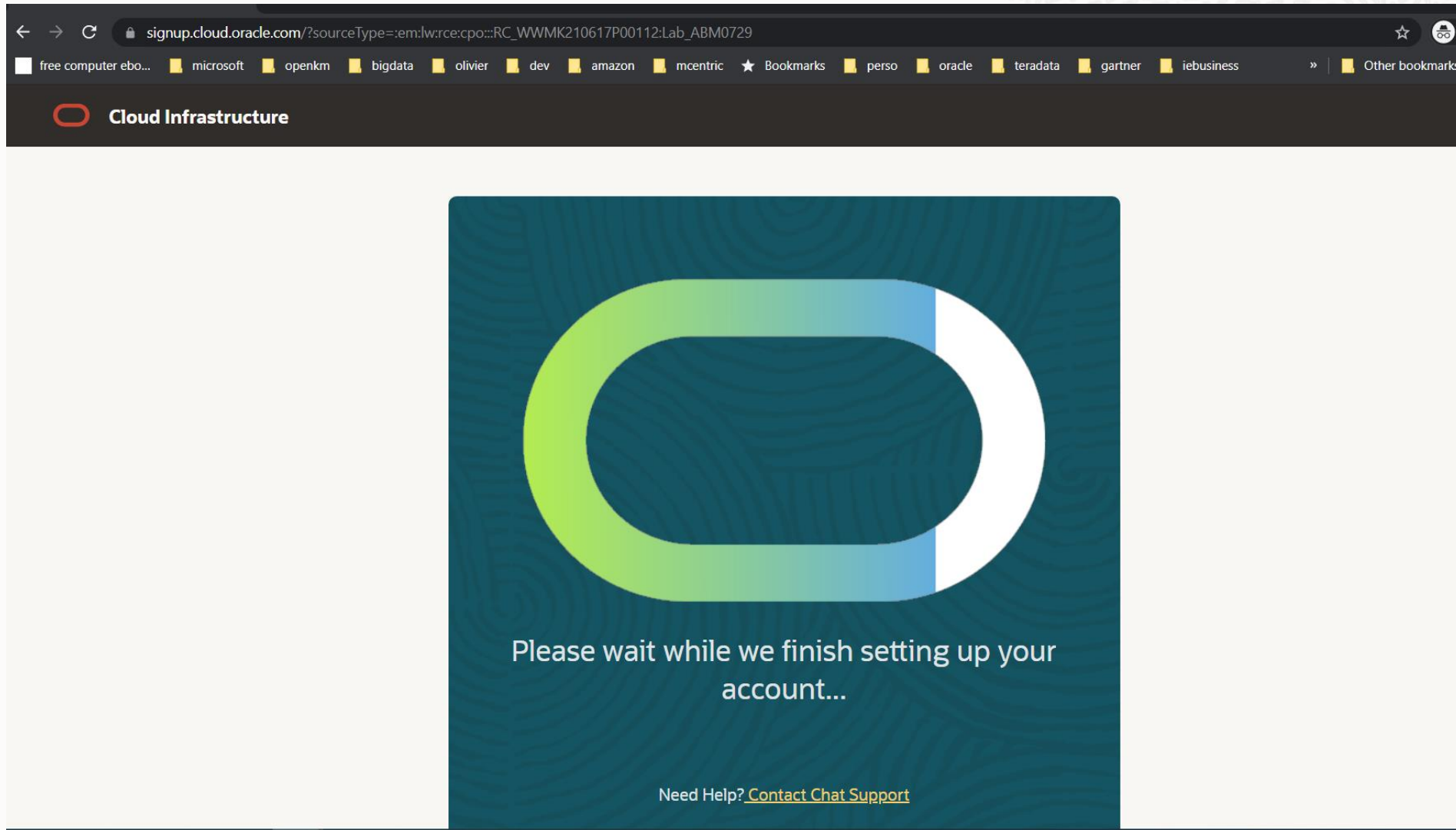
Welcome **xxxxxx@natwest.zzzzz**

You have been invited to sign up for Oracle Cloud and have the following offers available:

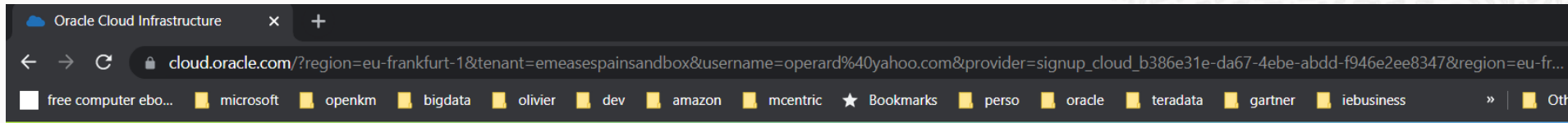
- ☒ For Oracle Cloud Trial with €500 credits for 30 days

Select Offer

Pre-Requirement: Provisioning your Free Trial Account



Pre-Requirement: Connecting to your Free Trial Account



ORACLE Cloud



Pre-Requirement: Connect to Oracle Cloud with your Free Trial

Access to next URL to connect to your Free Trial Account: <http://cloud.oracle.com>

Would you like to visit an Oracle country site closer to you?

Visit Oracle.com España No thanks, I'll stay here

See this page for a different country/region

ORACLE

Products Industries Resources Support Events Developer

View Accounts Contact Sales

ORACLE
Cloud

Cloud Account Name

Next

Forgot your cloud account name? [Get help](#)

Do you have a Traditional Cloud Account? [Sign In](#)

Not an Oracle Cloud customer yet?

Sign Up

Deploy Apache Tomcat on OCI Arm-based Servers

OCI can deploy Tomcat web apps using the security and performance of Arm shapes. [See the architecture diagram](#)

Deploy now

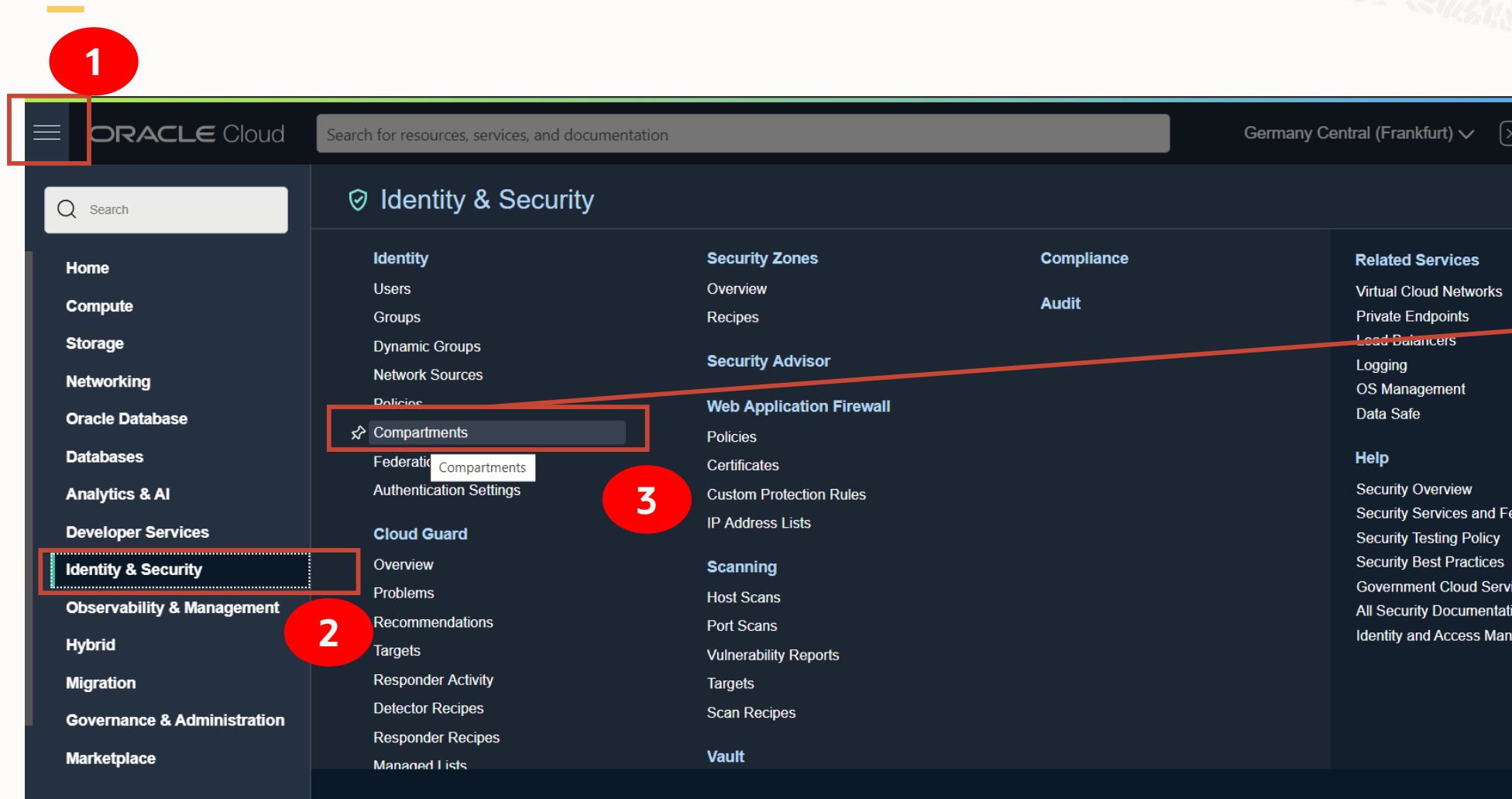
Oracle Developer Live: Simplifying Modern App Dev

Master design principles to build resilient, secure, and scalable apps.

Register now

Put your Tenant Account Name created with your EMAIL whitelisted

Pre-Requirement: Create your Compartment to deploy Autonomous ADB



Select Top Button,
Option Identity &
Security and
select
Compartments

Pre-Requirement: Create your Compartment to deploy Autonomous ADB

ORACLE Cloud

Search for resources, services, and documentation

Germany Central (Frankfurt) ▼

Identity

Users

1

Compartments

2

Create Compartment

Create Compartment

Help

Name

LAB2

Description

Security Zone in olivier.perard Optional ⓘ [\(Change Compartment\)](#)

No resources were found in this compartment.

The parent compartment is associated with a Security Zone and its child must use the same Security Zone.

Parent Compartment

emeasespainsandbox (root)

Tagging is a metadata system that allows you to organize and track resources within your tenancy. Tags are composed of keys and values that can be attached to resources.

[Learn more about tagging](#)

TAG NAMESPACE	TAG KEY	VALUE
None (add a free-form tag) ▼		

Click on Create Compartments, Put LAB2 for your compartment to deploy your autonomous

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Pre-Requirement: Create your Autonomous ADB

1

The screenshot shows the Oracle Cloud console dashboard. At the top, there is a navigation bar with the Oracle Cloud logo, a search bar, and the region 'Germany Central (Frankfurt)'. Below the navigation bar, there are two tabs: 'Get Started' (highlighted with a red circle and the number 1) and 'Dashboard'. The main content area is divided into two sections: 'Quickstarts' and 'Launch Resources'. The 'Quickstarts' section contains five cards for different deployment tasks, each with an icon, a title, and a duration. The 'Launch Resources' section contains three cards for creating different types of databases. On the right side, there is a sidebar with links to 'Account', 'Billing', and 'What's New'.


ORACLE Cloud


Search for resources, services, and documentation


Germany Central (Frankfurt) ▾


Get Started Dashboard


Quickstarts View My Deployments

APPLICATION DEVELOPMENT  Deploy a WordPress website
6-8 mins


APPLICATION DEVELOPMENT  Deploy a low-code app on Autonomous Database using APEX
3-5 mins


APPLICATION DEVELOPMENT  Deploy a cloud native app
5-7 mins


DEVOPS  Deploy a Jenkins CI/CD pipeline
9-11 mins

APPLICATION DEVELOPMENT  Deploy a .NET application on Windows
12-14 mins

Launch Resources View All Resources

COMPUTE  Create a VM instance

AUTONOMOUS TRANSACTION PROCESSING  Create an ATP database

AUTONOMOUS DATA WAREHOUSE  Create an ADW database

Account

User M
Add a user to

Billing
Analyze cost
Manage paym

What's N

Support Cen
Jul 21, 2021

Data Guard p
enhancement
and Virtual M
services
Jul 21, 2021

Exadata Clou
Network Vali

Pre-Requirement: Create your Autonomous ADB

The screenshot shows the Oracle Cloud console interface. At the top, the 'ORACLE Cloud' logo is on the left, a search bar is in the center, and 'Germany Central (Frankfurt)' is on the right. A red box labeled '1' highlights the hamburger menu icon. On the left sidebar, a red box labeled '2' highlights the 'Oracle Database' category. In the main content area, under the 'Oracle Database' heading, a red box labeled '3' highlights the 'Autonomous Database' option. A red arrow points from this option to a text instruction.

1

2

3

Select Top Button, Option Oracle Database and select Autonomous Database

Pre-Requirement: Create your Autonomous ADB

☰

ORACLE Cloud

Search for resources, services, and documentation

Germany Central (Frankfurt) ▼

Overview » Autonomous Database » Autonomous Databases

Autonomous Database

Autonomous Database

Dedicated Infrastructure ⓘ

Autonomous Container Database

Autonomous Exadata Infrastructure

List Scope

Compartment

LAB2

Filters

Workload Type

All

Create Autonomous Database

Display Name	State	Dedicated	OCPU	Storage	Workload Type	Autonomous Data Guard
No items						

Displaying 0 Autonomous

Select your compartment LAB2 and click to create Autonomous Database.



Pre-Requirement: Create your Autonomous ADB

ORACLE Cloud Search for resources, services, and documentation Germany Central (Frankfurt) v

Create Autonomous Database

Provide basic information for the Autonomous Database

Compartment

LAB2

Display name

DB 202107281958

Database name

DB202107281958

Choose a workload type

Data Warehouse

Transaction Processing

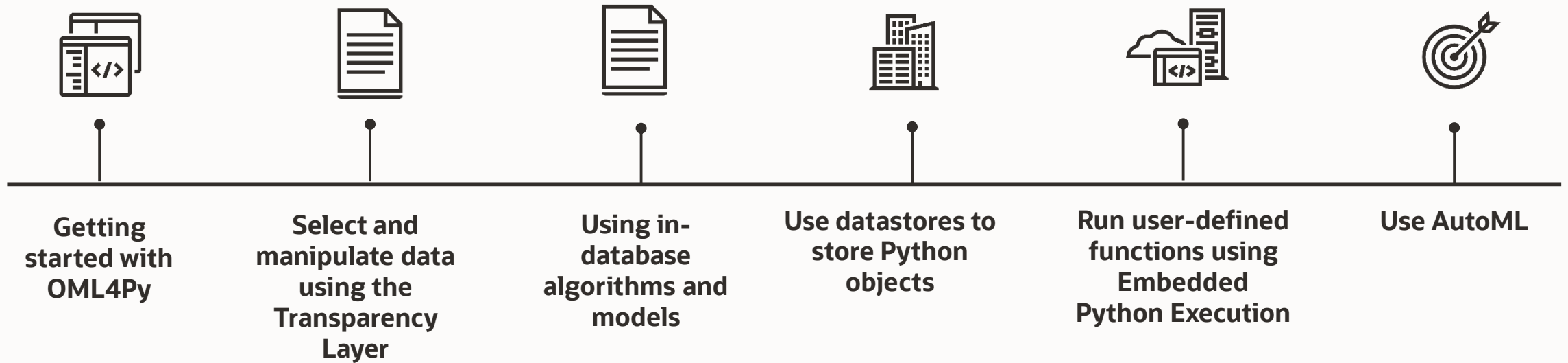
JSON

APEX

Create Autonomous Database Cancel

Select your compartment LAB2, Select Autonomous Data Warehouse (1TB, 1 OCPUs), and click on Create

Developer Journey Map



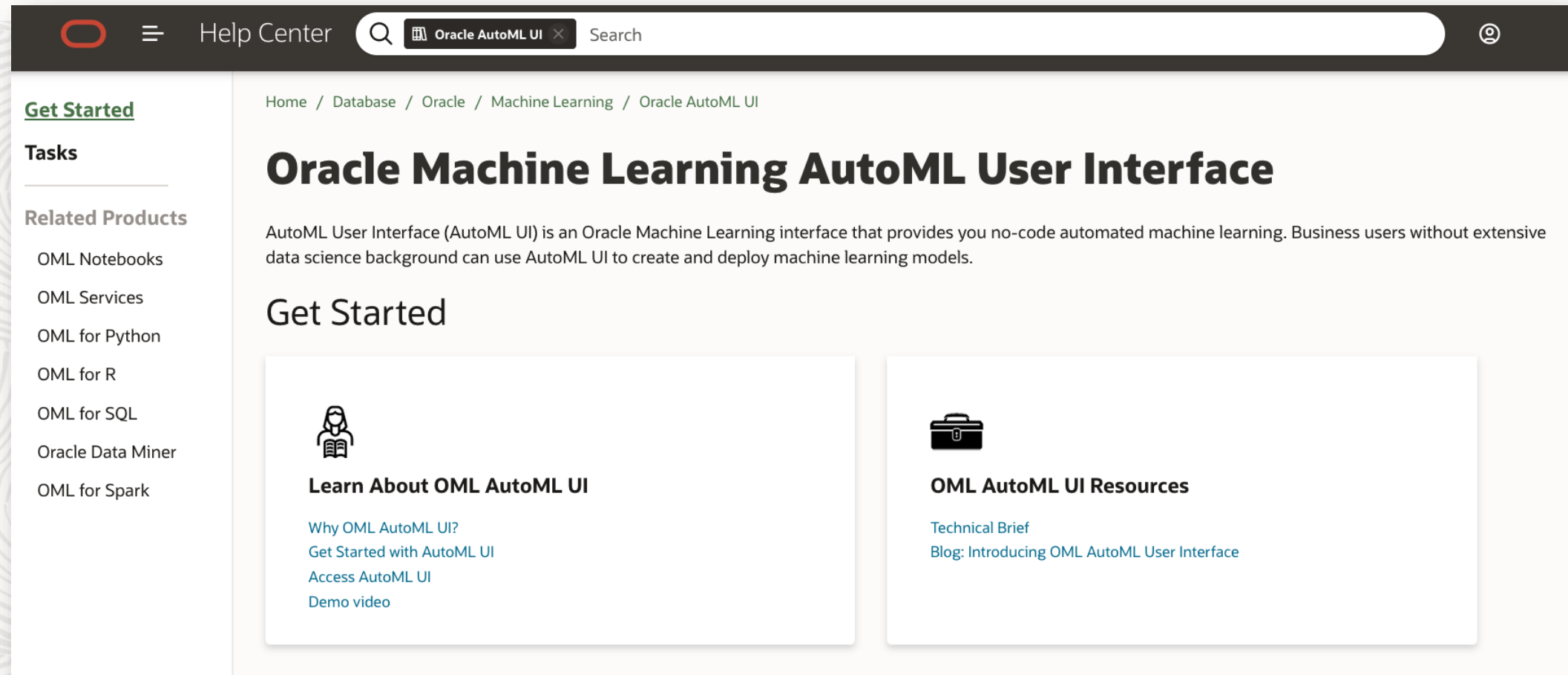
TUTORIAL for this Journey:

https://apexapps.oracle.com/pls/apex/dbpm/r/livelabs/workshop-attendee-2?p210_workshop_id=786&p210_type=3&session=106708031555726

For more information on OML AutoML UI

Current Documentation available at:

<https://docs.oracle.com/en/database/oracle/machine-learning/oml-automl-ui/index.html>



The screenshot shows the Oracle Machine Learning AutoML User Interface documentation page. The top navigation bar includes the Oracle logo, a menu icon, 'Help Center', a search bar with 'Oracle AutoML UI' entered, and a user profile icon. The left sidebar contains a 'Get Started' link, a 'Tasks' section, and a 'Related Products' section listing OML Notebooks, OML Services, OML for Python, OML for R, OML for SQL, Oracle Data Miner, and OML for Spark. The main content area has a breadcrumb trail: Home / Database / Oracle / Machine Learning / Oracle AutoML UI. The title is 'Oracle Machine Learning AutoML User Interface'. Below the title is a paragraph: 'AutoML User Interface (AutoML UI) is an Oracle Machine Learning interface that provides you no-code automated machine learning. Business users without extensive data science background can use AutoML UI to create and deploy machine learning models.' Below this is a 'Get Started' section with two cards. The first card, 'Learn About OML AutoML UI', features a person icon and links to 'Why OML AutoML UI?', 'Get Started with AutoML UI', 'Access AutoML UI', and 'Demo video'. The second card, 'OML AutoML UI Resources', features a briefcase icon and links to 'Technical Brief' and 'Blog: Introducing OML AutoML User Interface'.


Get Started

Home / Database / Oracle / Machine Learning / Oracle AutoML UI

Oracle Machine Learning AutoML User Interface


AutoML User Interface (AutoML UI) is an Oracle Machine Learning interface that provides you no-code automated machine learning. Business users without extensive data science background can use AutoML UI to create and deploy machine learning models.

Get Started



Learn About OML AutoML UI

- [Why OML AutoML UI?](#)
- [Get Started with AutoML UI](#)
- [Access AutoML UI](#)
- [Demo video](#)



OML AutoML UI Resources

- [Technical Brief](#)
- [Blog: Introducing OML AutoML User Interface](#)

Helpful Links

ORACLE MACHINE LEARNING ON O.COM

<https://www.oracle.com/machine-learning>

OML TUTORIALS

OML LiveLab: https://apexapps.oracle.com/pls/apex/dbpm/r/livelabs/view-workshop?p180_id=560

OML4Py LiveLab: <https://apexapps.oracle.com/pls/apex/dbpm/r/livelabs/view-workshop?wid=786>

Interactive tour: <https://docs.oracle.com/en/cloud/paas/autonomous-database/oml-tour>

OML OFFICE HOURS

<https://asktom.oracle.com/pls/apex/asktom.search?office=6801#sessionss>

ORACLE ANALYTICS CLOUD

<https://www.oracle.com/solutions/business-analytics/data-visualization/examples.html>

OML4PY

[OML4Py](#) (2m video)

[OML4Py Introduction](#) (17m video)

[OML4Py Technical Brief](#)

[OML4Py User's Guide](#)

[Blog: Introducing OML4Py](#)

[GitHub Repository with Python notebooks](#)

ORACLE AUTOML UI

[Oracle Machine Learning AutoML UI](#) (2m video)

[Oracle Machine Learning Demonstration](#) (6m video)

[OML AutoML UI Technical Brief](#)

[Blog: Introducing Oracle Machine Learning AutoML UI](#)

Oracle Machine Learning

Oracle Machine Learning accelerates the creation and deployment of machine learning models for data scientists by eliminating the need to move data to dedicated machine learning systems.

Machine Learning on Autonomous Database Workshop

Explore machine learning notebooks and use prediction in applications on Autonomous Database.

Workshop length: 2 hours

Oracle Machine Learning for Python on Autonomous Database Workshop

Python is one of the favorite languages used in AI and ML applications. Learn how the Oracle Database natively supports Python through a series of real world use cases, highlighting the broad set of algorithms and high performance execution.

Workshop length: 2 hours

Oracle Machine Learning Office Hours

Free tips and training every month! Subscribe for reminders and more from Office Hours. [FAQ](#)

Oracle Analytics Library

Custom DV examples to enhance your data visualization experience. Standalone .dva projects that can be re-used with your own data.

OML SERVICES

[Oracle Machine Learning Services](#) (2m video)

[OML Services Technical Brief](#)


[Oracle Machine Learning Services Documentation](#)

[Blog: Introducing Oracle Machine Learning Services](#)

[GitHub Repository with OML Services examples](#)

Environment to download Documentation / Scripts

GitHub Repository: <https://github.com/operard/OML4PY-HOL>

 [operard](#) / [OML4PY-HOL](#)


[Code](#) [Issues](#) [Pull requests](#) [Actions](#) [Projects](#) [Wiki](#) [Security](#) [Insights](#) [Settings](#)


 [main](#)  1 branch  0 tags

[Go to file](#)

[Add file](#)

 [Code](#)

 [operard](#) Update README.md

6a99cbc now  3 commits

 README.md Update README.md now

 README.md



OML4PY-HOL

Oracle Python Machine Learning Workshop in Autonomous Database

Thank You

DevRel Team





ORACLE