Introducing Oracle Machine Learning
A Collaborative Zeppelin notebook for Oracle’s machine learning capabilities

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Advanced Analytics and Machine Learning
Safe Harbor Statement

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What is a “notebook”
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- Web-based – accessible by browser
- Enables interactive data analytics
- Produces appealing data-driven and collaborative documents
- Integrates formatted notes with your code
### Introduction

- A collaborative unified notebook user interface for Oracle’s machine learning capabilities
- Enables teams to...
  - Leverage the languages, platforms and engines of their choice
  - Explore and prepare data
  - Build, access, and use machine learning models
  - Deploy machine learning solutions
Oracle Machine Learning
Multi-Platform, Multi-Engine Oracle Machine Learning for the Cloud

Features

• Zeppelin-based Unifying Notebook UI
  – Multiple backend servers, analytical engines and languages
  – Oracle and open source algorithms, platforms, tools, and data sources (SQL, R, Spark, Python)
  – Provides a flexible toolbox for the data scientist

• Supports collaborative development
  – Shared notebooks and templates, with access permissions

• Supports deployment of predictive analytics solutions
  – Enables publishing libraries, templates, examples of common use cases

• Dynamic and expandable platform
Oracle Machine Learning
Multi-Platform, Multi-Engine Oracle Machine Learning for the Cloud

Benefits

• Harnesses the power of Oracle’s multi-platform data and machine learning ecosystem and open source machine learning algorithms
• Enables collaboration between data scientists, citizen data scientists, and application developers
• Develop and publish analytical methodologies, templates and micro-services in the Oracle Cloud
Oracle’s Advanced Analytics and Machine Learning Platform

Multiple interfaces across platforms — SQL, R, GUI, Dashboards, Apps

**Users**

- R programmers
- Data & Business Analysts
- Data Scientists (R, SQL, Python, etc.)

**Information Producers**

- SQLDEV/
  - Oracle Data Miner
- Oracle Machine Learning

**Oracle Database Enterprise Edition**

- ORAAH
  - Parallel, distributed algorithms
- Oracle Advanced Analytics - Database Option
  - SQL Data Mining, ML & Analytic Functions + R Integration
  - for Scalable, Distributed, Parallel in-DB ML Execution

**Oracle Cloud**

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Oracle Machine Learning Strategy and Vision

One server side product, with a single analytic library, supporting multiple data platforms, analytical engines, UIs and deployment strategies

Oracle ML Algorithm Library
Common core, parallel, distributed
Oracle Machine Learning

OML Beta Program 2017

• Seeking data scientists and data analysts for early product access, beta testing, and providing valuable customer feedback
• Oracle Machine Learning will host “i-Betas” in the Oracle Cloud for easier customer access and testing

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