

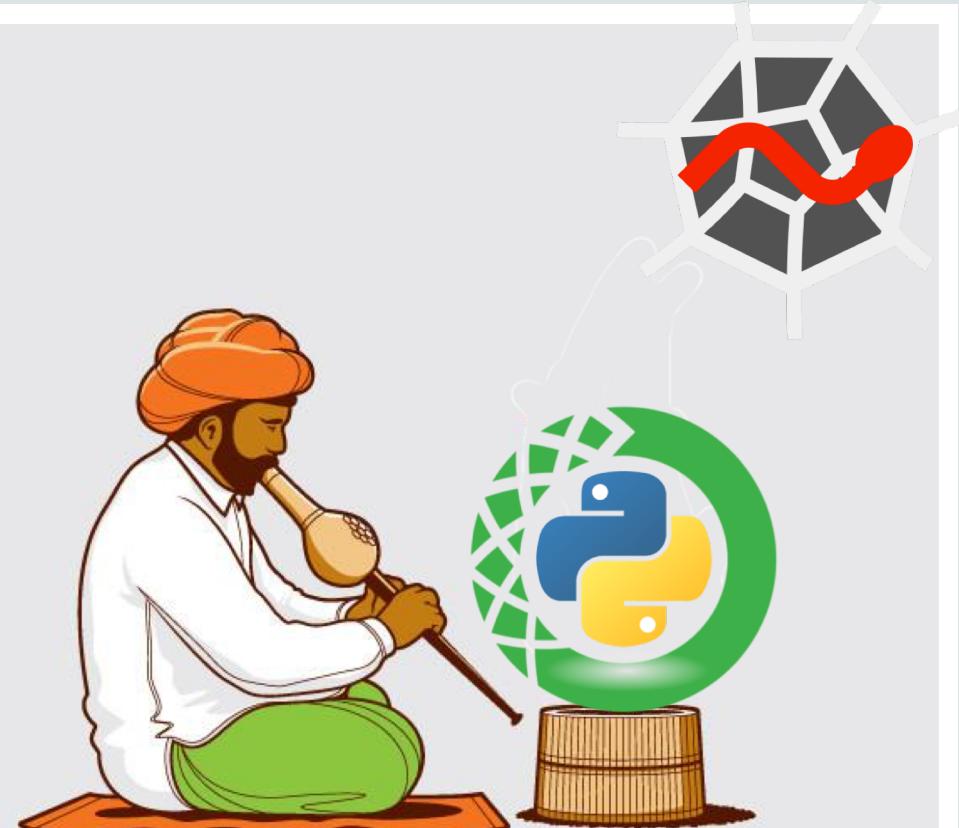
# Introduction to Python for Snake Charmers

*Dr. M. Naci Akkøk,  
Chief Architect, Oracle Nordic*

*21. March 2018, Python Meetup @Teknologihuset*



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# ANNOUNCING

# Oracle AI Platform Cloud Service



Simplify Application Development Using AI



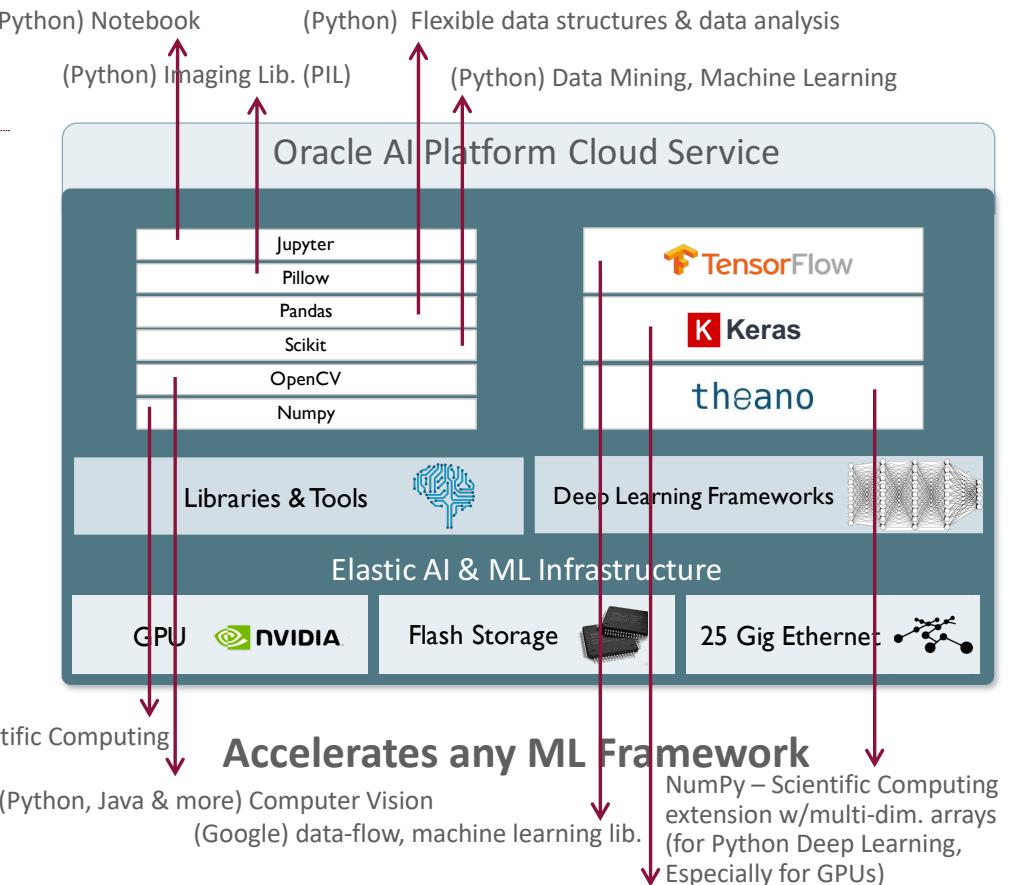
## Complete AI Development Platform

- Quick set up of auto-scaling AI development system
- Pre-installed AI libraries, tools, samples, deep learning frameworks
- OpenCL, Nvidia CUDA and cuDNN drivers
- Integrated with Oracle Object Cloud, easily connect to existing Hadoop cluster
- Seamlessly build AI-powered apps across Oracle PaaS



## Best-in-Class AI Compute Infrastructure

- GPU Bare-Metal shape: 2x Tesla P100 GPUs based on NVIDIA's Pascal Architecture
- Pre-Announcing Volta GPUs with up to 8 GPUs
- NVMe High Speed Flash Storage
- 25 Gig Ethernet network

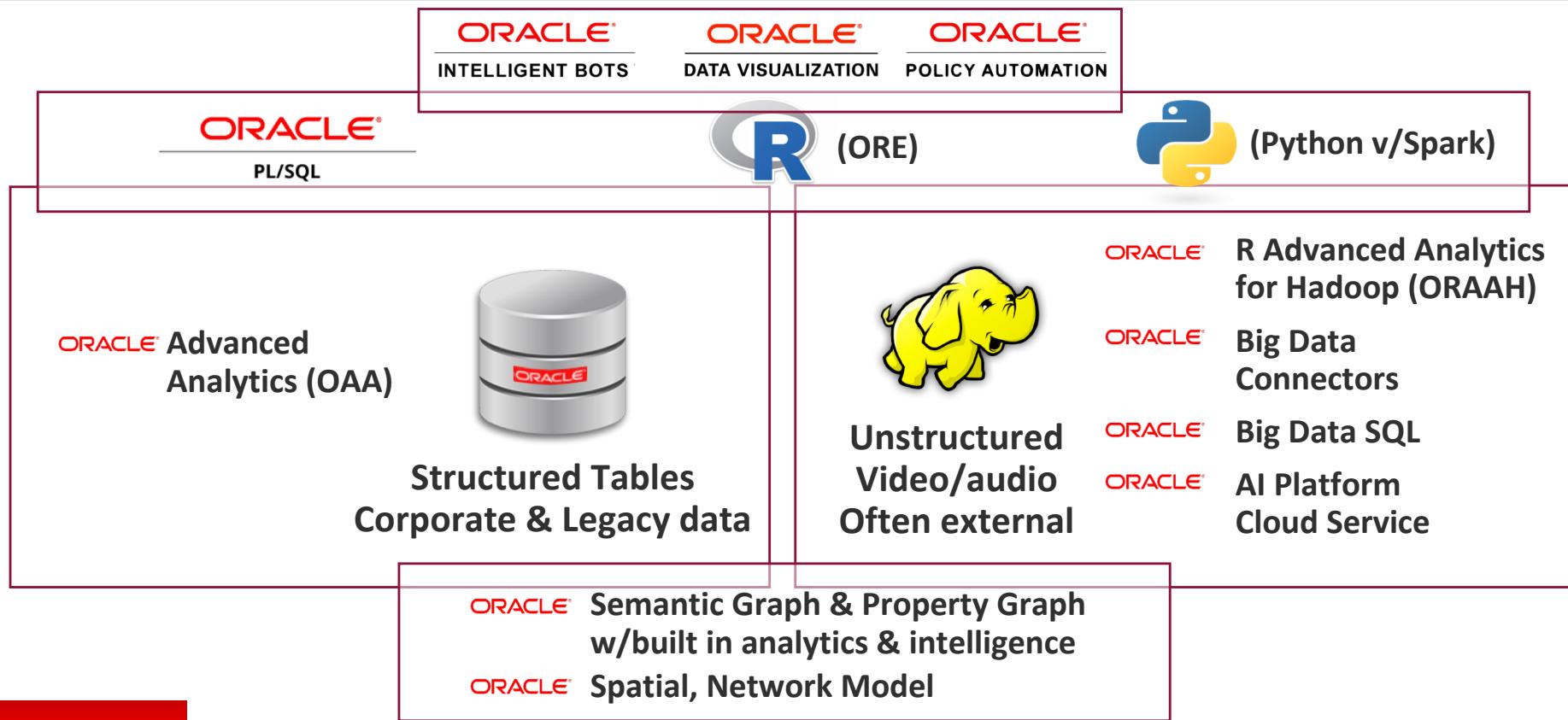


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# AI/Machine learning platforms and tools

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## USE «Oracle Trial» to test Oracle's Paas and IaaS cloud services

Get Started with Oracle Cloud for Free  
\$300 in free credits

Build production-ready workloads by using a variety of cloud services including databases, compute, containers, IoT, big data, API management, integration, chatbots, and many more



### Use Oracle Cloud Services with Free Credits\*



#### Database

720 hours, 4 TB

Fully managed Oracle database



#### Java

3000 hours

Fully managed Weblogic server



#### Compute

4000 Hours

High-performance VMs and bare metal servers



#### Storage

5 TB

Object and Block storage to store and access data at scale

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# Python



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# ANNOUNCING

# CONVERSATIONAL AI PLATFORM

Enhance Experiences with Conversational Interactions



## SUPPORT FOR ALL MAJOR CHAT AND VOICE MESSAGING

- Native integration for FB Messenger, Slack, WeChat
- Native integration to Alexa, Google Home, Siri, Cortana
- Native & JavaScript SDK for Native mobile apps & Web



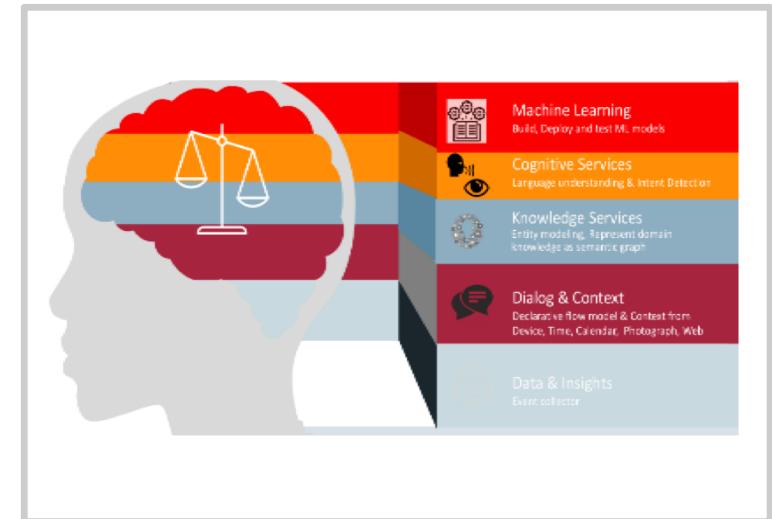
## BREADTH OF AI SERVICES

- Deep learning algorithms fine tuned for conversational UI
- Cognitive services across speech, vision and language
- Dialog & context services to create great user experiences



## DEEP MACHINE LEARNING FOR CONVERSATIONAL INTERACTION

- Usage and user experience insights; operational insights



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# AI / ML is built into the tools!

## ORACLE® DATA VISUALIZATION

Platform > Business Analytics > Analytics Cloud



Analytics Cloud

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**World's First  
"Self-Driving"  
Database**



No Human Labor – Half the Cost  
No Human Error – 100x More Reliable

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[oracle.com/selfdrivingdb](http://oracle.com/selfdrivingdb)

Human labor refers to tuning, patching, updating, and maintenance of database.  
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# AI / ML is built into the tools!

- [Oracle Mobile Cloud](#) includes conversational AI through bots to automate human interactions using natural language, sentiment, speech, images, and machine learning.
- [Oracle Autonomous Database Cloud](#) includes machine learning to enable self-driving, and self-repairing data warehousing and OLTP to improve security and reliability.
- [Oracle Analytics Cloud](#) allows analysts to use machine learning techniques to better visualize data and understand patterns without having to become a data scientist.
- [Oracle Security and Management Cloud](#) includes embedded machine learning to automate detection, prevention, and response to security breaches, performance anomalies, and vulnerabilities.

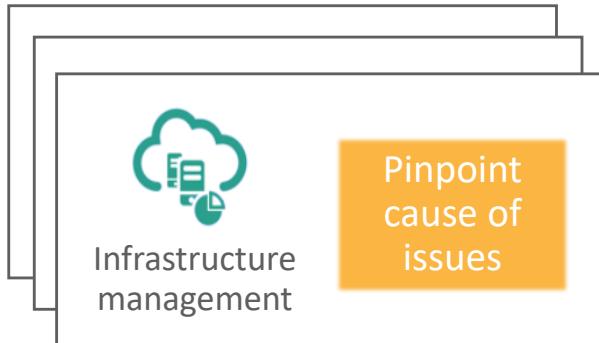
# Adaptive Intelligent Applications (AI / ML built into applications)



- **Data and Context-Driven**
- Process enormous amounts of web-scale data in real-time and synthesizes context to deliver the best and most personalized outcomes.
- **Action-Oriented and Omni-Channel**
- Anticipate user behaviors and deliver actionable and individualized outcomes. Data and events are tracked from everywhere so recommendations are coordinated across channels.
- **Continuously Adaptive and Self-Learning**
- Continuously improves outcomes as the system reacts, learns and adapts. There is a value exchange between the end user and the adaptive intelligent app—the more the end user interacts, the more value they receive.
- **Built for End-Users**
- Immediate value out of the box, with no need for a legion of data scientists!

# Machine Learning use cases and built-in ML examples

## 1. Standard apps



Infrastructure management

Pinpoint cause of issues

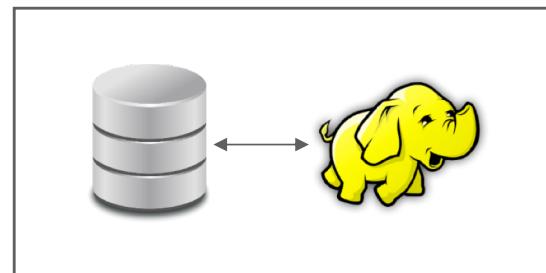
## 2. Business Intelligence



Self Service

Machine failure patterns

## 3. Platform (never forget The platform ☺)



**NB!** Oracle embeds AI and ML capabilities within its own business and IT services.

# Machine Learning Templates and Examples

See more here: <https://www.oracle.com/solutions/business-analytics/data-visualization/library.html>



Audience targeting



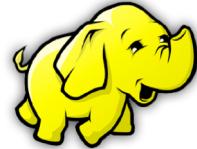
Churn prediction



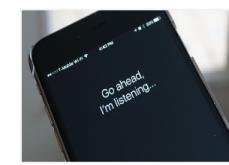
Fraud detection



Structured  
Tables  
Corporate data



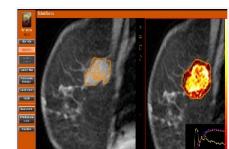
Unstructured  
Video/audio  
Often external



Personal  
assistant on  
mobile



Self-driving  
car



Medical  
diagnosis



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