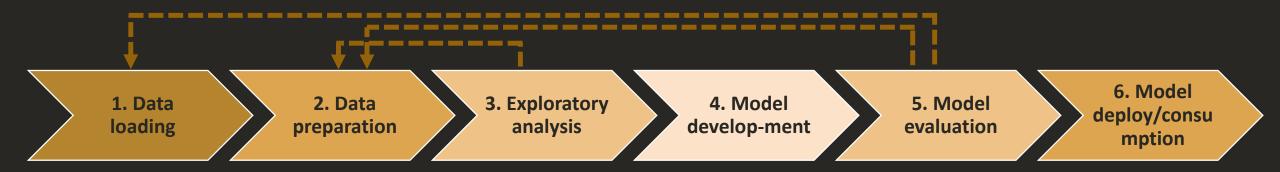
#### OAC ML Addressing Analysts

# OAC ML

## **Citizen Data Science Solution**

The ability to undertake machine learning full cycle without the user having to write any code at all. Oracle Analytics utilize the skills within an organization to enable the benefits of data science, instead of relying on external resources.

#### The Data Citizen OAC ML Experience



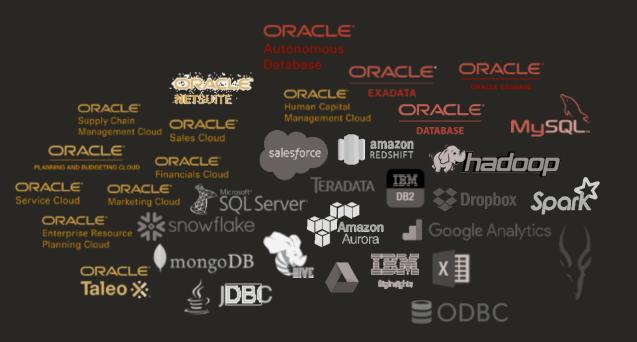
#### Typical ML design cycle

#### OAC ML = Analyst friendly experience for all steps

## OAC ML : Data Loading



- Directly connect to 40+ different multi-structure sources, includes SaaS applications
- 2. Source from Rich Enterprise Semantic layer
- 3. Blend any data regardless of its source or type

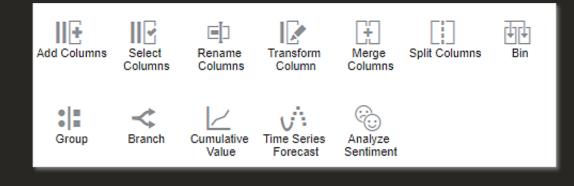


#### OAC ML : Data Preparation

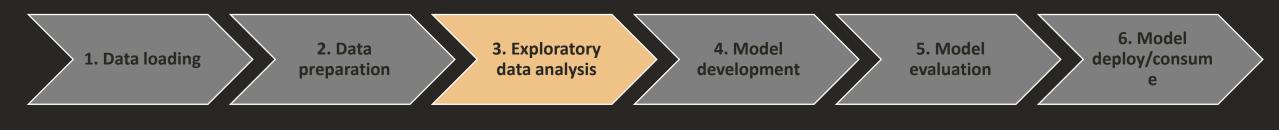


- 1. Automatic Data Prep & Enrichment
- 2. Easy Live Calcs, Groupings & Binings
- 3. Analyst Friendly Data Flows

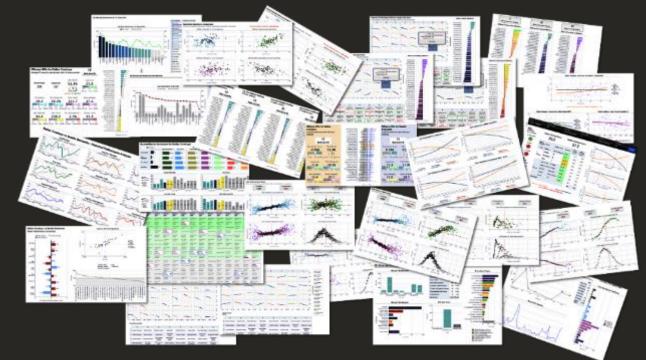
Sample O	● Join ← Branch	IP Transform×	📩 Save Data
		∑ Aggregate	Save Data
Attrition Pr			



## OAC ML : Exploratory Data Analysis



- Intuitive Interactive visualizations (correlation M.)
- Automatic deep insights on dataset
- 3. Automatic Influencers identification



 $\bigcirc$ 

### OAC ML : Model Development





- 1. Simplified Model Training Experience
- 2. Rich set of OOB Algorithms
- 3. Running on any data-source

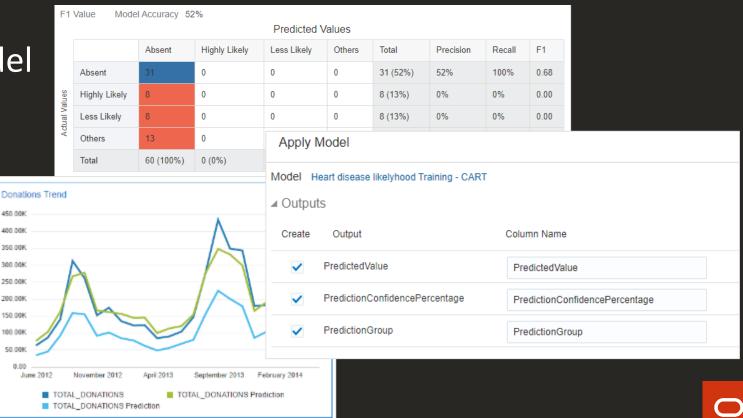
	-				
* Target	Likelyhood target, the target(label) to learn/predict				
Positive Class in Target	Present Positive class in the target value. Default is Yes.				
Minimum Node Size	50	~	^		
	Minimum Node Size				
Maximum Depth	5	~	^		
	Maximum Depth				
Maximum Confidence	80	~	^		
	Maximum Confidence				
Train Partition Percent	80	~	^		
	The percentage of original data used for training, default is 80%.				
Balancing Method	Over Sample		-		
	The mode method for balancing unbalanced set.				

Model Training Script CART for model training

### OAC ML : Model Evaluation



- Immediate & visual model quality stats
- 2. On the fly comparative model results dataviz :Scenarios
- 3. Batch model Apply



## OAC ML : Model Deployment



- Immediate & visual model quality stats
- 2. On the fly comparative model results dataviz
- 3. Batch model Apply

Heart dis Multi-Classifi	ease likelyhood Training - CART			Save	Close
General	All Users Roles	Add	Search By Name		ď
Quality	Name	Full Control	Read-Write	Read-Only	
Access	Sadmin	•			
Related	Admin	•	•	•	

#### What is OAC ML?

- A Citizen Data Scientist sandbox to initiate & prototype Models and refine ML requirements
  - Easily blend source datasets
  - Easy enrich model inputs
  - Help quickly identify relevant features
- A way for analysts to friendly collaborate with Data scientists, enhancing DS process making it more efficient

#### 3. A business user friendly home to Consume any ML Models (\*)