

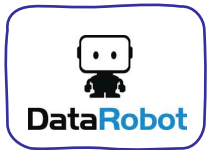
IntegratedML (Intro)

Workshop

Alberto Fuentes
Sales Engineer

```
CREATE MODEL MyModel ...  
TRAIN MODEL MyModel ...  
SELECT PREDICT(MyModel) ...
```

SQL PROCESSOR

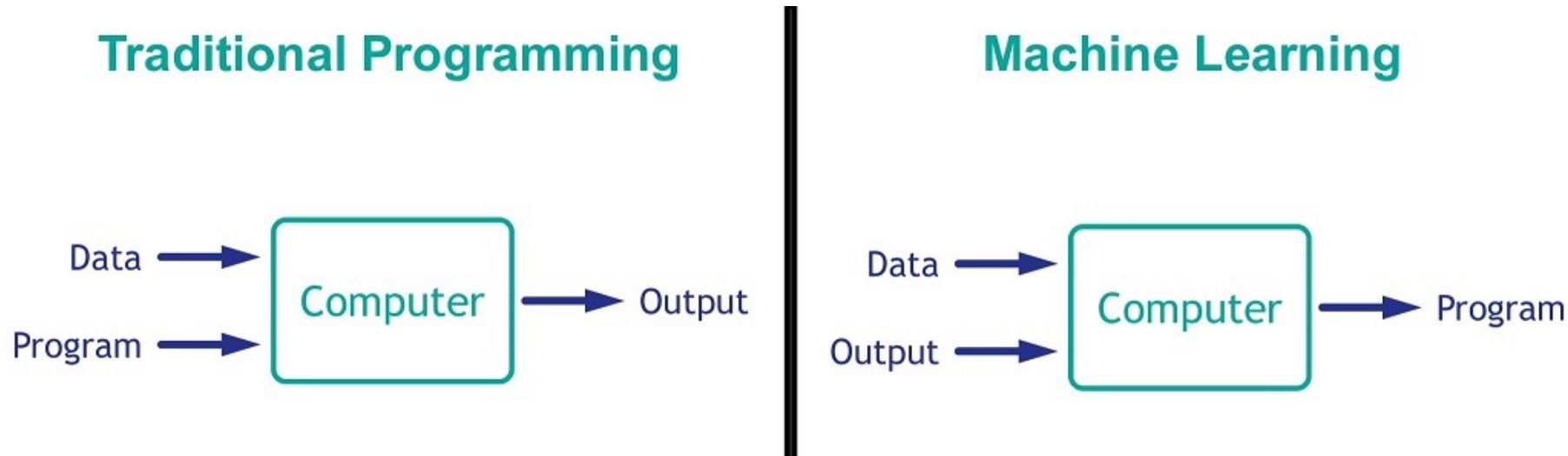


H2O

Pluggable ML Engines

 **InterSystems™**
IRIS Data Platform

Identify and extract patterns from data to build predictive models

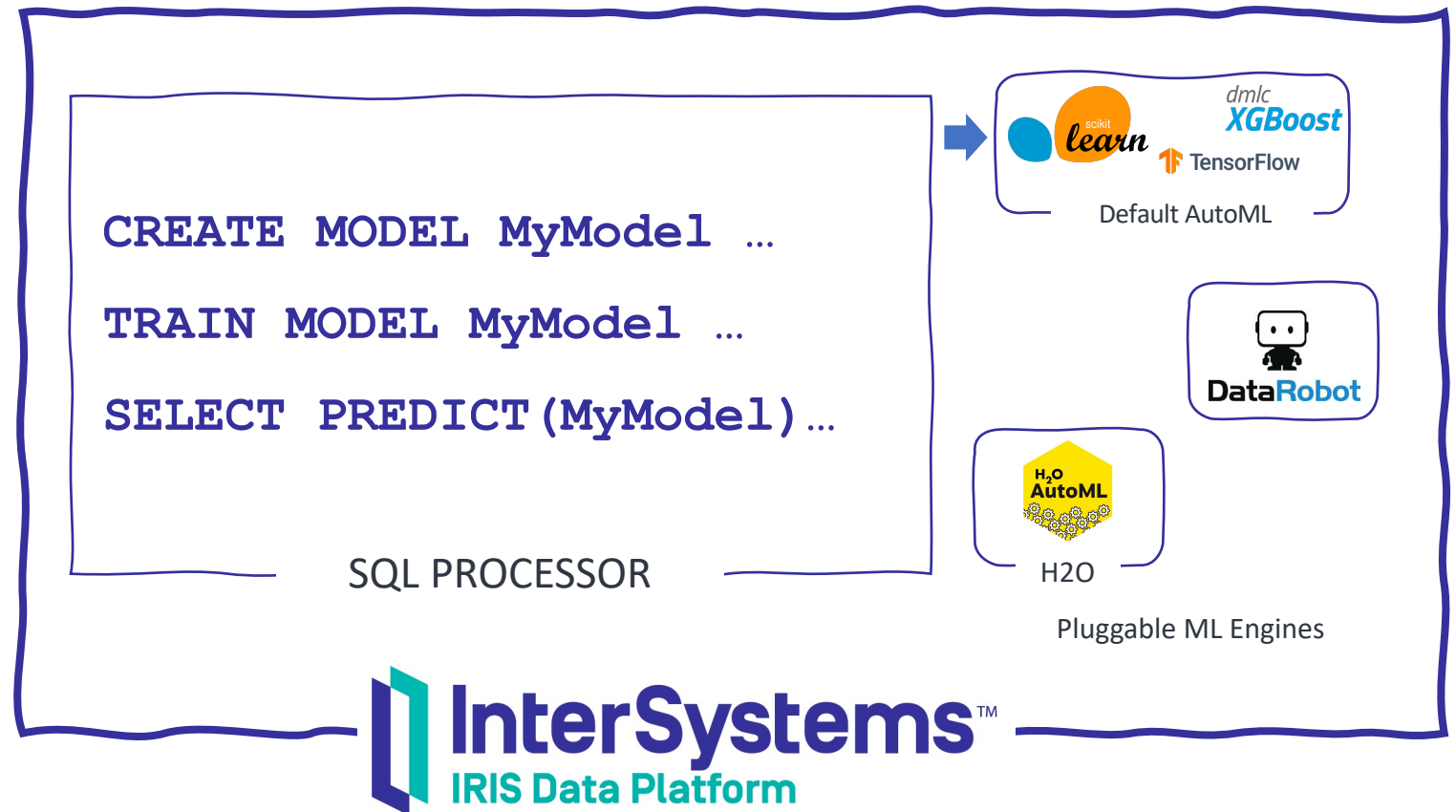


Machine Learning

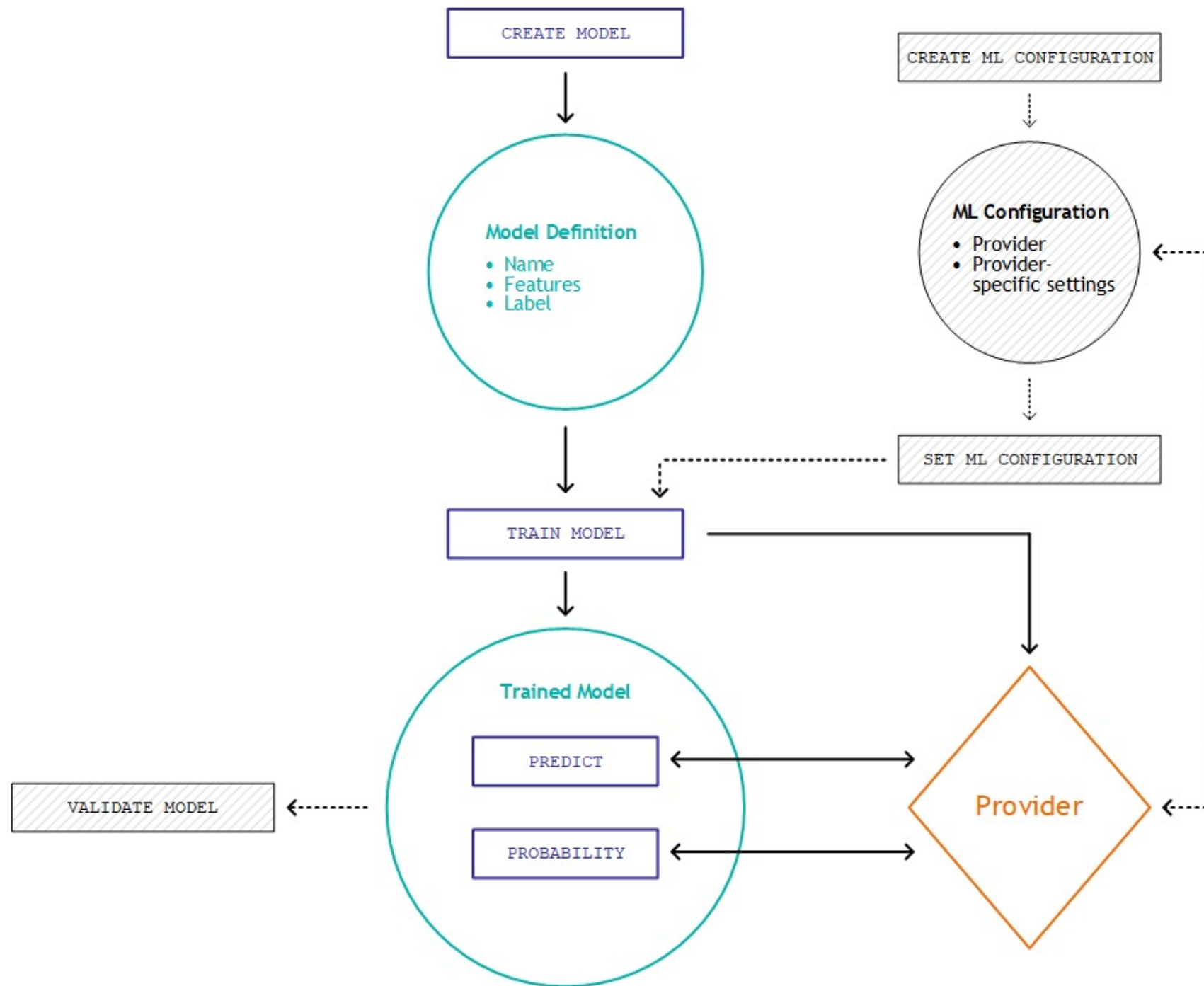
- **Train** the model using your data inputs (**features**) and outputs (**labels**)
- **Validate** model evaluating predictions Vs. real data.
- **Use** your trained model with real data to make predictions.

Integrated ML

Use automated machine learning functions directly from SQL to create and use predictive models



Integrated ML



Integrated ML

Providers

- ML-as-a-Service tools usually lack of frameworks to connect directly to your data.
- Providers are ML frameworks available within IntegratedML to access to your data

AutoML

Machine learning engine developed by InterSystems.



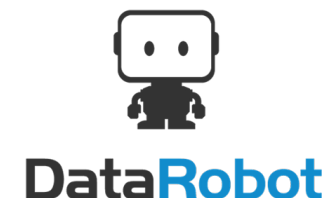
H2O

Open-source automated machine learning platform

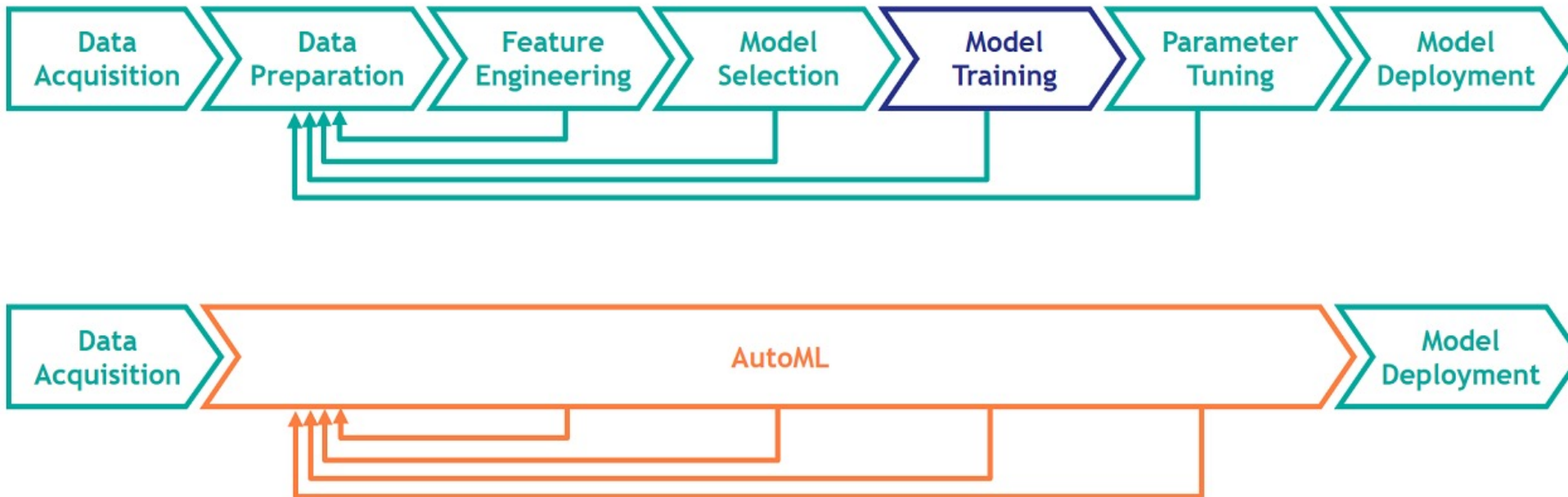


DataRobot

Advanced enterprise automated machine learning platform



Automating the ML Process



AutoML

- Multi-hot encoding, Python data type conversion, transforming columns
- *Algorithms*: XGBRegressor, Neural Network, Logistic Regression, Random Forest Classifier, ...