



# SAP Data Intelligence Cloud

AISHWARYA

# What is SAP Data Intelligence?

SAP Data Intelligence is a comprehensive data management solution that connects, discovers, enriches, and orchestrates disjointed data assets into **actionable business insights** at enterprise scale.

It enables the creation of data warehouses from heterogeneous enterprise data, simplifies the management of **IoT data streams**, and facilitates **scalable machine learning**.

SAP Data Intelligence enables you to leverage your business applications to become an intelligent enterprise and provides a **holistic, unified way to manage, integrate, and process your enterprise data**.

# Why SAP Data Intelligence?

## Integration with SAP applications:

SAP Data Intelligence provides a comprehensive set of native connectivity into on-premise and cloud applications, making it easier to reuse application semantics, avoid rebuilding data models, interact with applications running on runtime databases, and trigger actions back into the applications themselves.

## Reuse of SAP offerings:

SAP Data Intelligence includes comprehensive support for integrating and orchestrating several existing SAP offerings such as SAP Business Warehouse, SAP Data Services, SAP Information Steward, SAP Landscape Transformation, and SAP Integration Suite. This helps makes it easier to safeguard and reuse a past investment.

## Third-party integration and orchestration:

SAP Data Intelligence is built on a standard Docker-Kubernetes architecture and is committed to open-source engines. We do support Python, Go, and JavaScript as Internal engines, and we can orchestrate R, TensorFlow, Spark, and many other external engines. We can connect to major cloud object stores, data lakes, data warehouses, and databases

# What are the top five reasons you need SAP Data Intelligence?

1. Integrate data, solving the data deluge challenge
2. Reuse engines and orchestrate SAP or third-party data processing engines
3. Democratize intelligence by making machine learning easier to implement, scale, operationalize, and govern
4. Help ensure data quality by discovering, preparing, and governing data assets in the same tool
5. Deploy on a mix of hyperscalers, whether hybrid or on premise

## SAP Data Intelligence – **Why it is different**



### **Single end-to-end tool**

Discover and catalog your data, integrate it and orchestrate, manage ML operations, all in one single product.

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### **Multi-cloud, agnostic and open**

Adaptable architecture built on open technologies, available as-a-service, or BYOL in the cloud on any hyperscaler or on premise.

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### **Re-use existing on-prem investments**

Natively reuse and connect all SAP on prem technologies (HANA, BW, Data Services, SLT etc.)



# SAP Data Intelligence – Core Capabilities



## SAP Data Intelligence



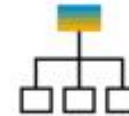
### Data Integration

**Connect and integrate everything,** structured, unstructured or streaming



### Data Processing

**Extract meaning from data,** orchestrating any mix of engines



### Data Catalog

**Discover, classify, profile, understand and prepare** all your enterprise data assets



Amazon Redshift



Google Cloud Platform



amazon web services S3



hadoop



Microsoft Azure



SAP



python



R



TensorFlow



GO



spark



node JS



JavaScript



SAP



# SAP Data Intelligence – Data Integration

Data pipelines integrate disparate data across distributed infrastructures



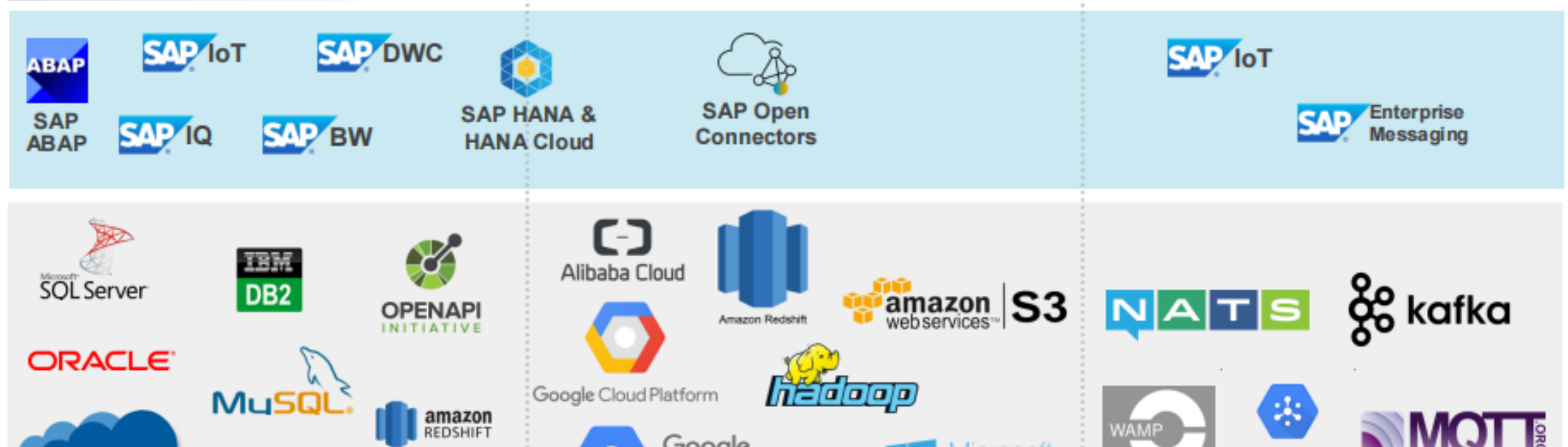
Structured  
Data



Unstructured  
Data



Streaming  
Data



# SAP Data Intelligence – Data Processing

Orchestrate several heterogeneous data processing engines



... across distributed infrastructures, cloud and on-prem, minimizing data movements

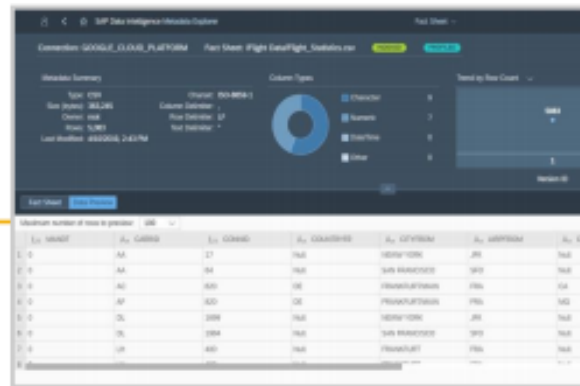




# SAP Data Intelligence – Data Catalog

A centralized Data Catalog for your enterprise data governance

Data discovery,  
browsing and  
profiling

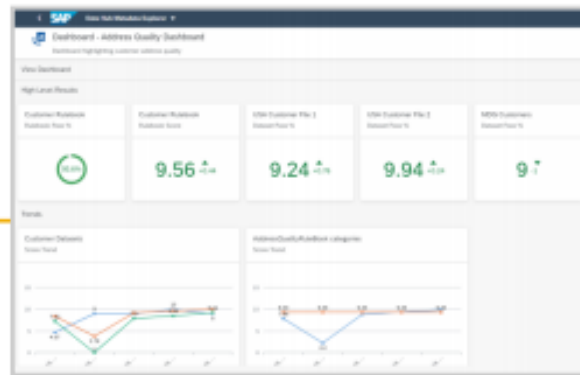


Self-service Data  
Preparation

The screenshot shows the SAP Data Intelligence Self-service Data Preparation interface. It displays a table of data with columns for EMPID, ENAME, JOB, and SAL. To the right of the table, there is a list of transformation actions such as 'Change Case', 'Filter', 'Join', 'Split', and 'Combine'. The 'ENAME' column is highlighted, and the 'Filter' action is selected.

EMPID	ENAME	JOB	SAL
7369	Scott	Analyst	7600
7369	Clark	Manager	7600
7369	Ward	Salesman	7600
7369	Blake	Manager	7600
7369	Ford	Analyst	7600
7369	Watson	Salesman	7600
7369	Jones	Clark	7600
7369	Smith	Manager	7600
7369	Allen	Clark	7600
7369	Turner	Salesman	7600
7369	Smith	Clark	7600
7369	Adams	Clark	7600

Data quality  
rules and  
scorecards



Data  
lineage





**Embedded**  
ML Applications

1

Intelligent Suite



**Automation**  
SAP Intelligent RPA

2

Intelligent Technologies



**Conversation**  
SAP Conversational AI

2

Intelligent Technologies



**Intelligence**  
SAP Data Intelligence

2

Intelligent Technologies

3

Digital Platform

# SAP Data Intelligence

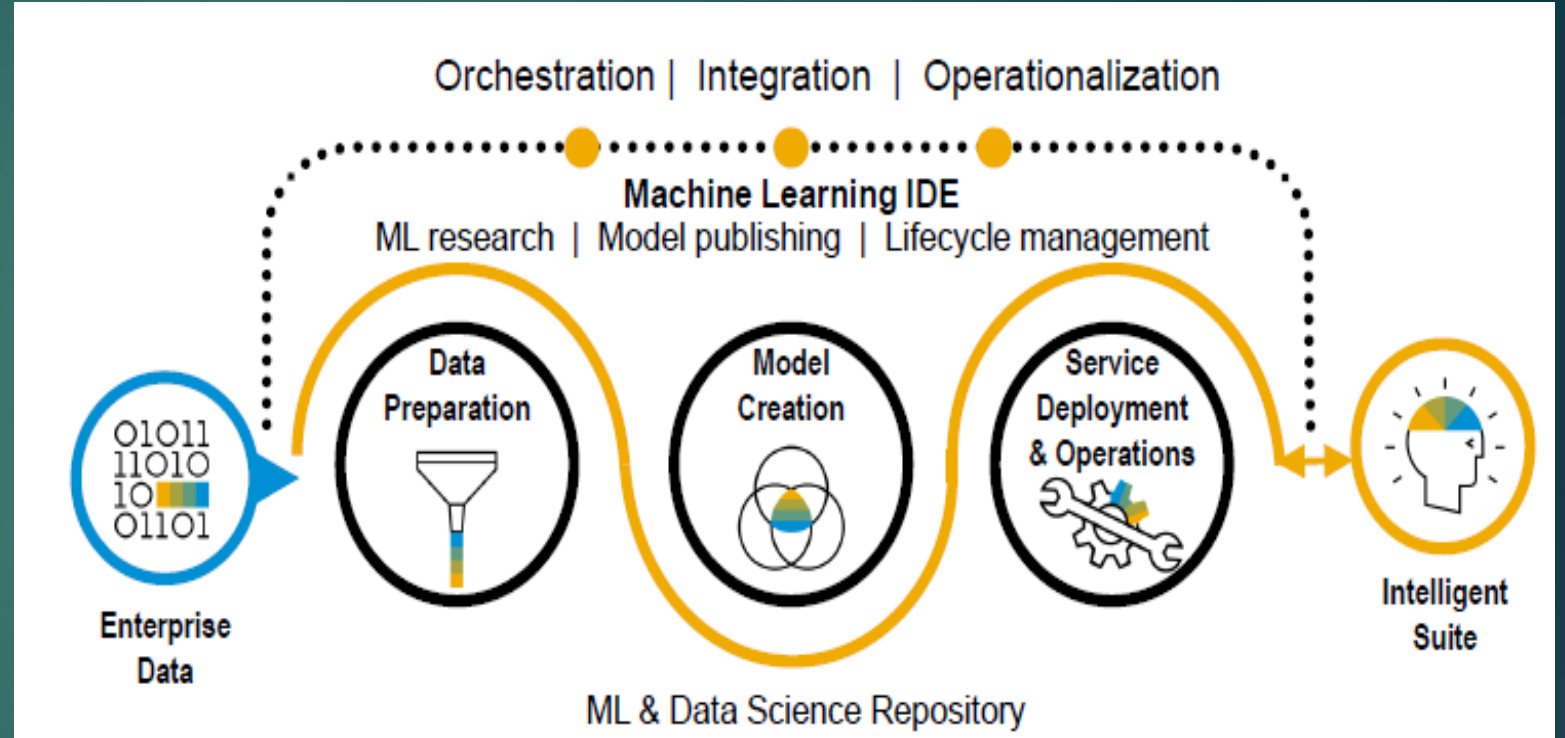
## Overview:

Deliver data intelligence with AI and information management.

Enable data-driven innovation and intelligent processes with data orchestration and machine learning services.

Machine Learning Life cycle management along with Model/Code management.

Orchestration + Integration + Operationalization





# SAP Data Intelligence Cloud Features



# SAP Data Intelligence Cloud Features



## Data Integration

Evolve data integration to data orchestration  
The evolution of data integration to data orchestration.

Your business get the most out of high-value data and analytics with SAP Data Intelligence Cloud.



## Data Catalog

Discover, classify, profile, understand, and prepare all your enterprise data assets.

Understand data lineage, auditing and leverage data anonymization and masking

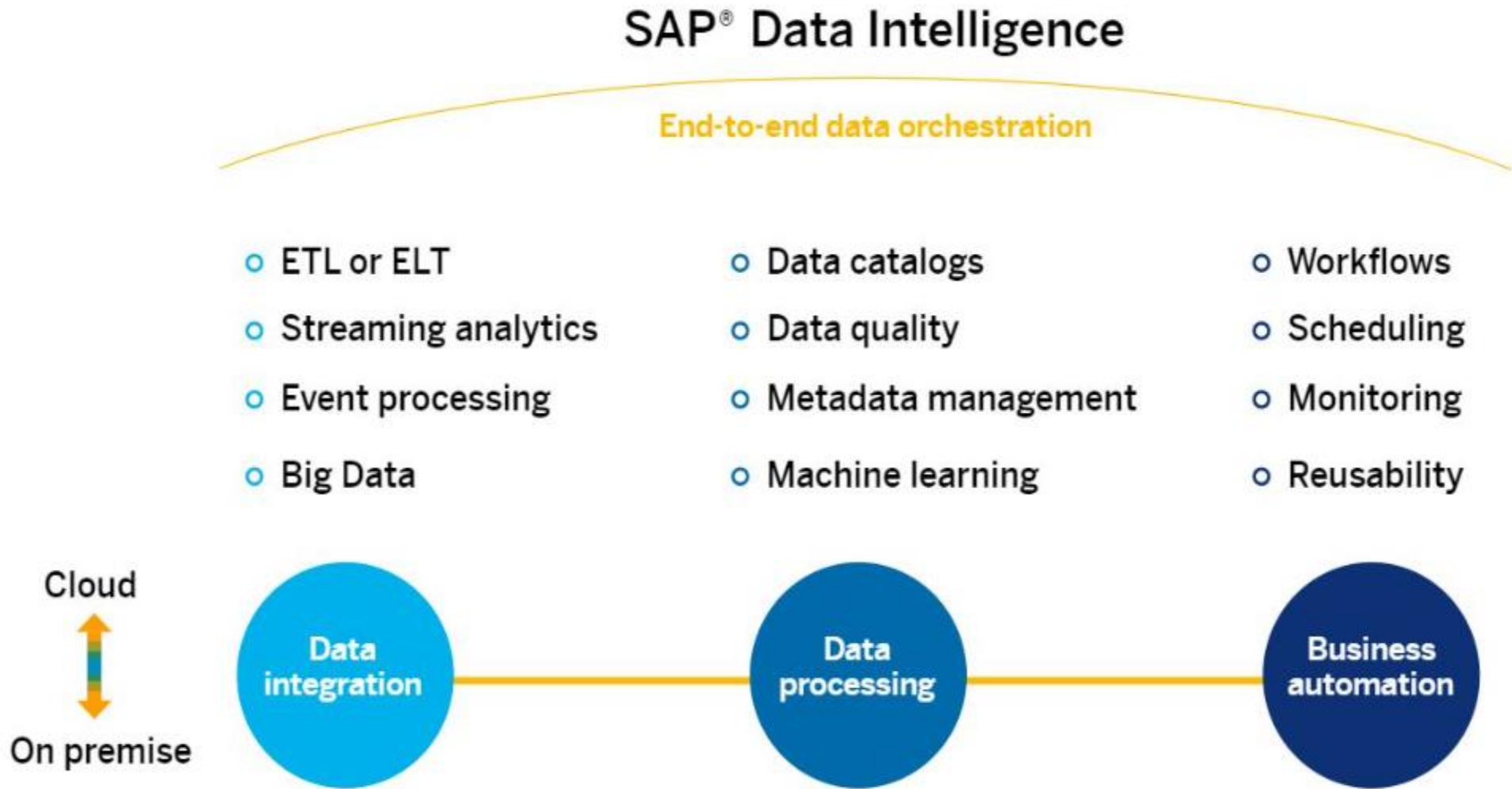


## Enterprise Data Management

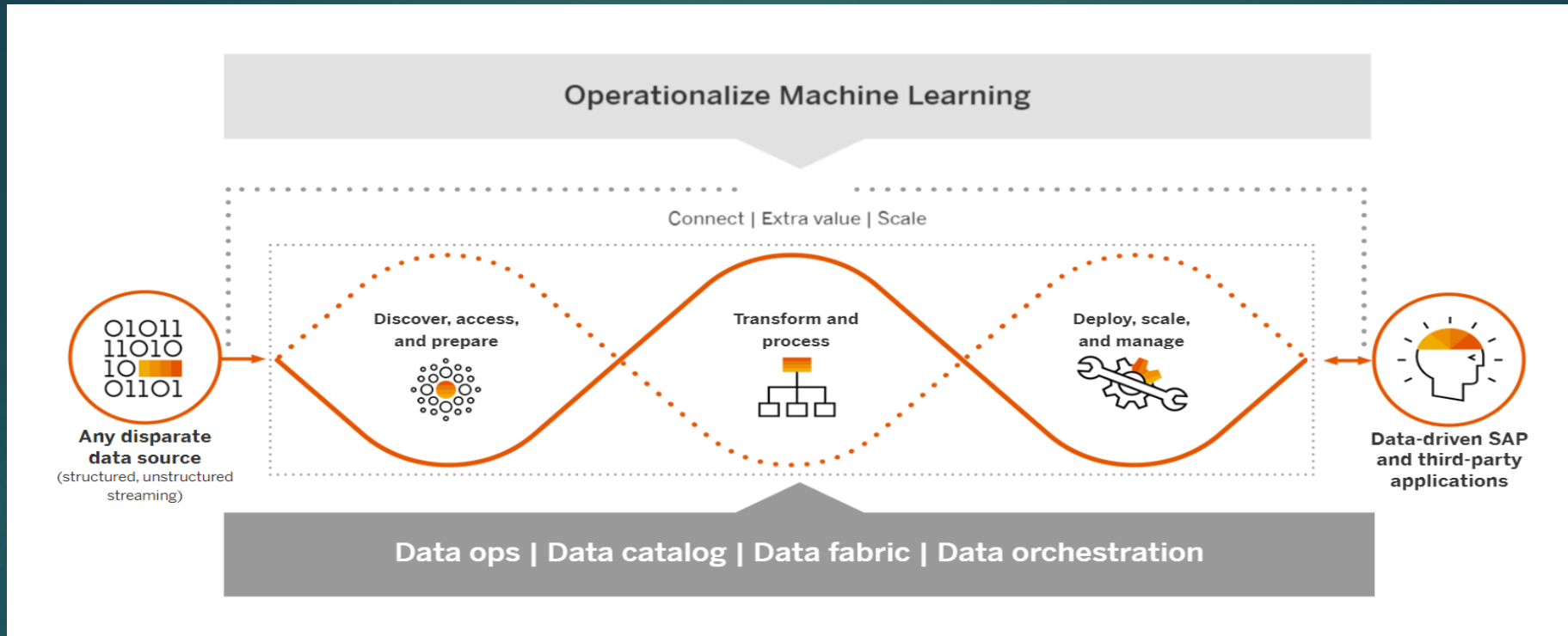
Connect and integrate everything: streaming, structured, unstructured

Orchestrate across any cloud and on-prem deployment

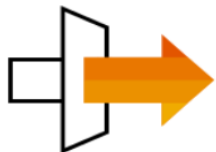
# Features & Connections with various sources



# SAP Data Intelligence Cloud Features



With SAP Data Intelligence, you can:



Intelligently process data

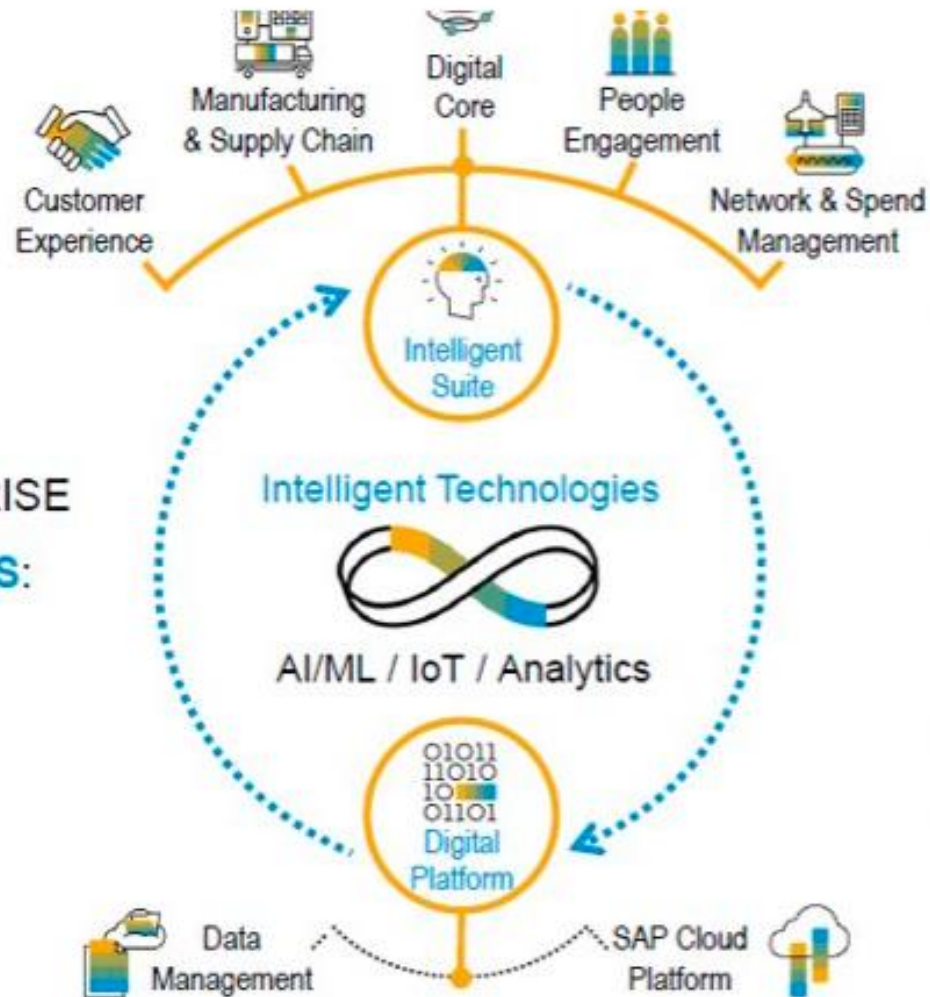


Build trust in your data



Perform hybrid data management

THE INTELLIGENT ENTERPRISE  
features 3 **KEY COMPONENTS**:



1

Intelligent Suite

2

Intelligent Technologies

3

Digital Platform



# SAP Data Intelligence

## Machine Learning Services



**ML Notebooks**



**Data Science  
Workflows**



**ML Operations**



**Core Services**

Model Training Service  
Model Inference Service

**Functional Services**

Pre-trained Services



## Data Management and Orchestration Services

**Data Governance**



**Metadata  
Management**



**Access  
Governance**



**Data Preparation  
& Labeling**

**Integration & Orchestration**



**Visual Pipeline  
Modeling**



**Data  
Workflows**



**API Access**

## Foundational Capabilities



**Distributed Runtime**



**System Management**



**Pipelines & Workflows**

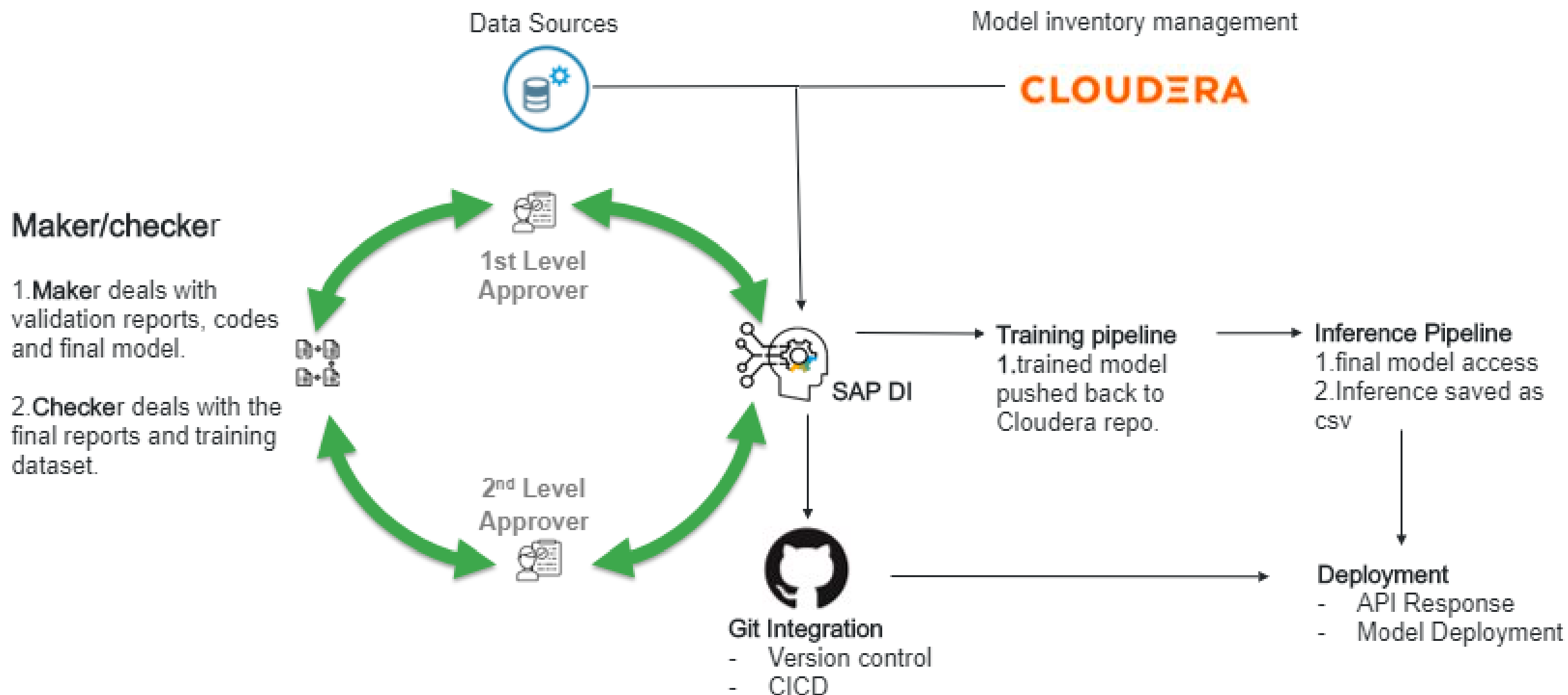


**Metadata & Applications**



**Data Store**

# Banking client – ML Model governance use case



# SAP DI In Built AI Services

## Image Classification



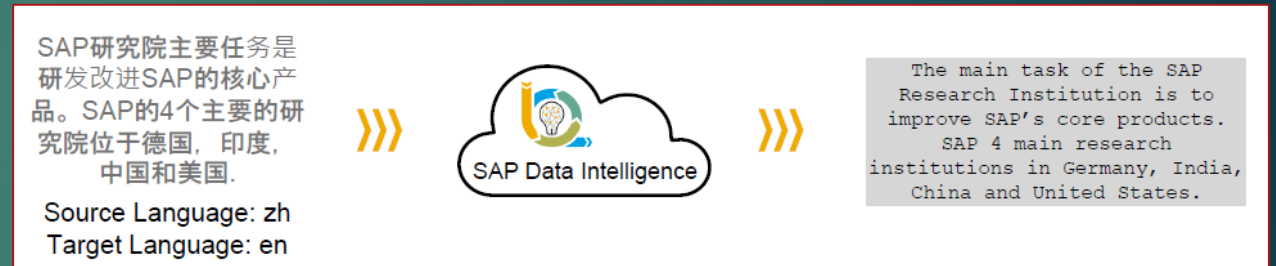
## Image Object Character Recognition (OCR):



## Text Classification:



## Translation



## Image feature Extraction:



## Topic Detection:



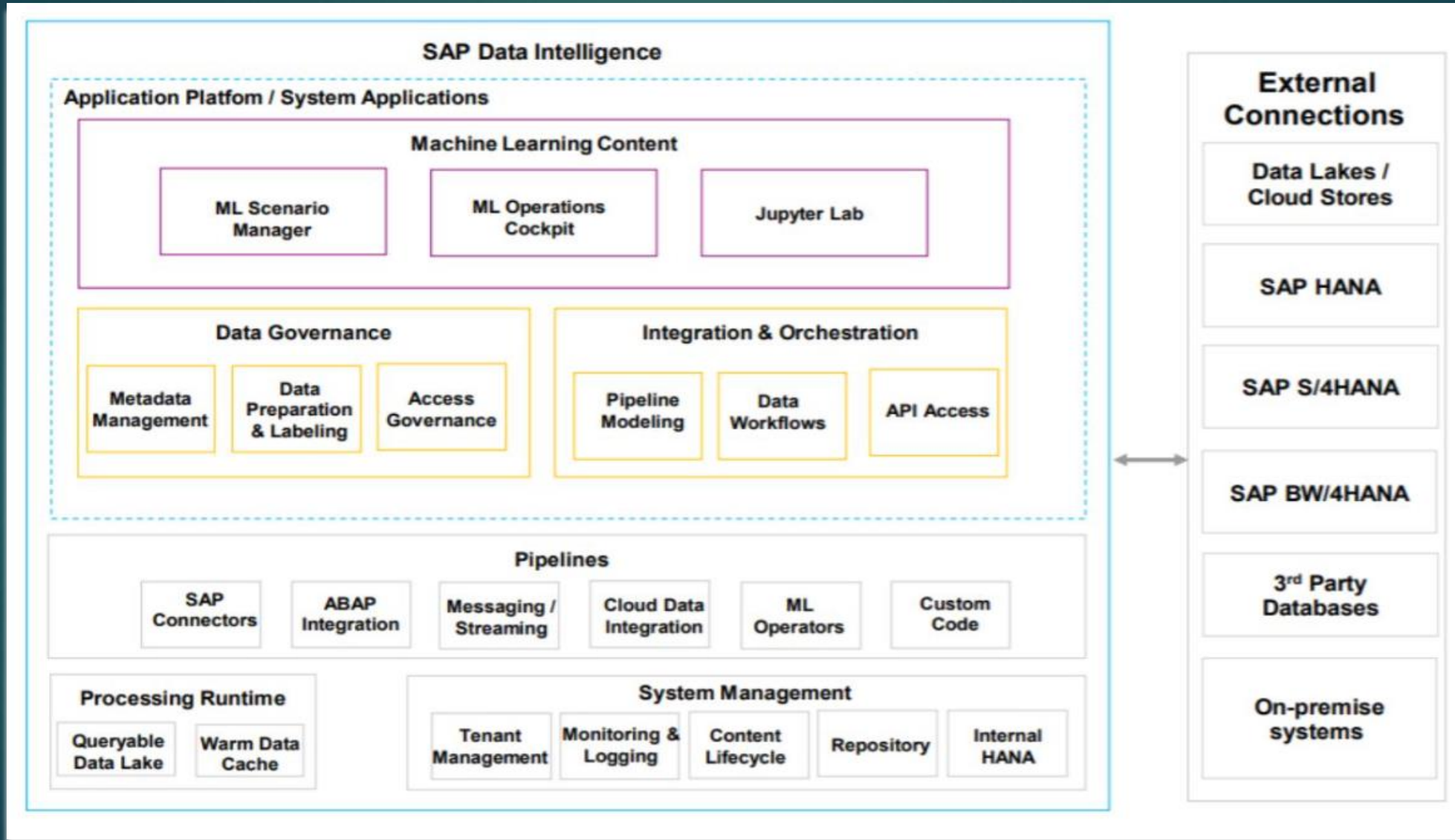
# SAP Data Intelligence Architecture





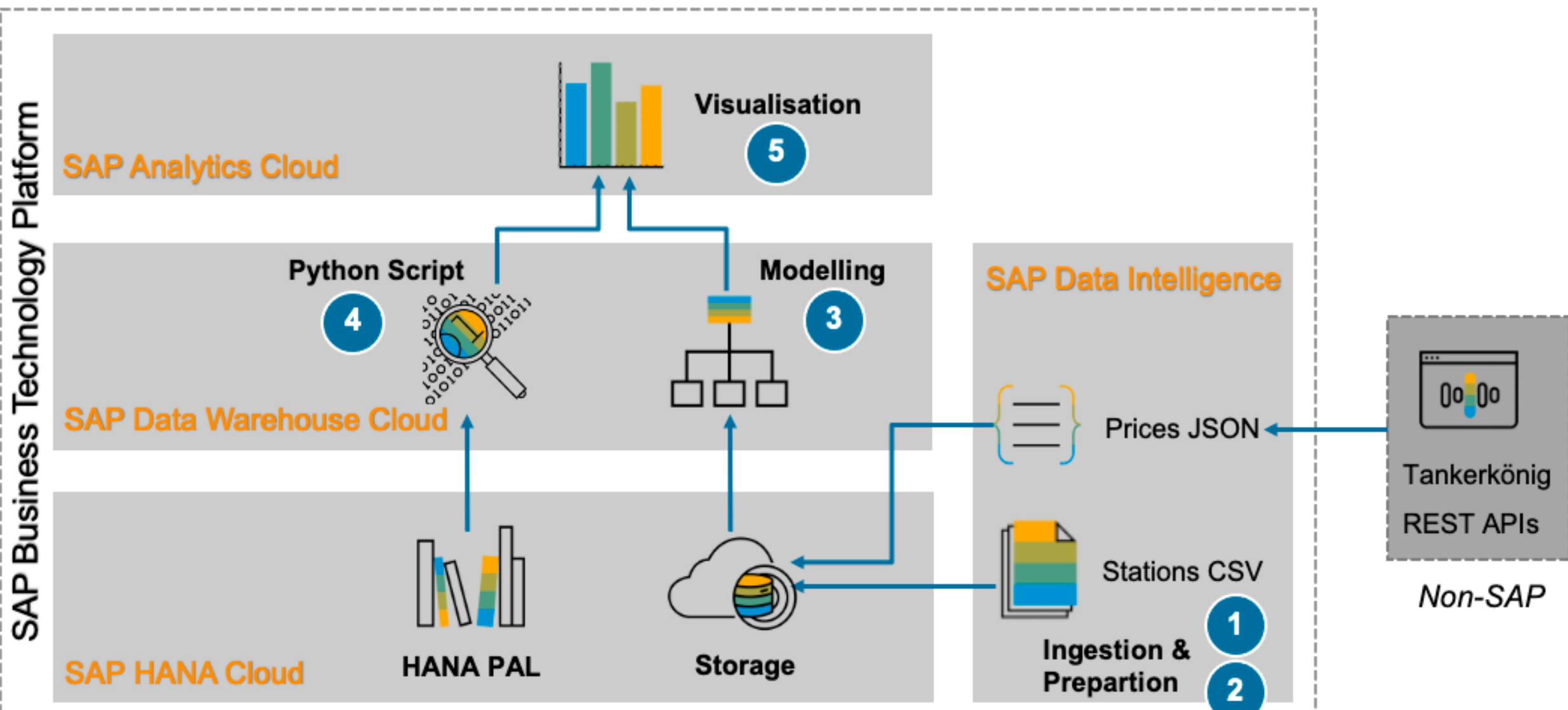
# SAP Data Intelligence

## Architecture View



# SAP BTP Data & Analytics Showcase - DI/HC/DWC/SAC Integration

## Gasoline Stations and Prices Analysis – Technical Architecture



# SAP Data Intelligence

End to End Integration & Processing



(Image source: SAP® Integration Solution Advisory Methodology(Published by SAP))

# SAP Data Intelligence

End to End Integration & Processing

**Data Discovery** – It is a term used to describe the process for collecting data from various sources by detecting patterns.

**Data Profiling** – It is a detailed analysis of source data. It tries to understand the structure, quality, and content of source data and its relationships with other data.

**Metadata Cataloging** – It 's collection of all the data about your data. Metadata can include the data source, origin, owner, and other attributes of a data set.

**Data Ingestion** – It is a process by which data is moved from one or more sources to a destination where it can be stored and further analyzed.

**Data Processing** -Data processing occurs when data is collected and translated into usable information.

**Data Enrichment** – It is a general term that applies to the process of enhancing, refining, and improving raw data.

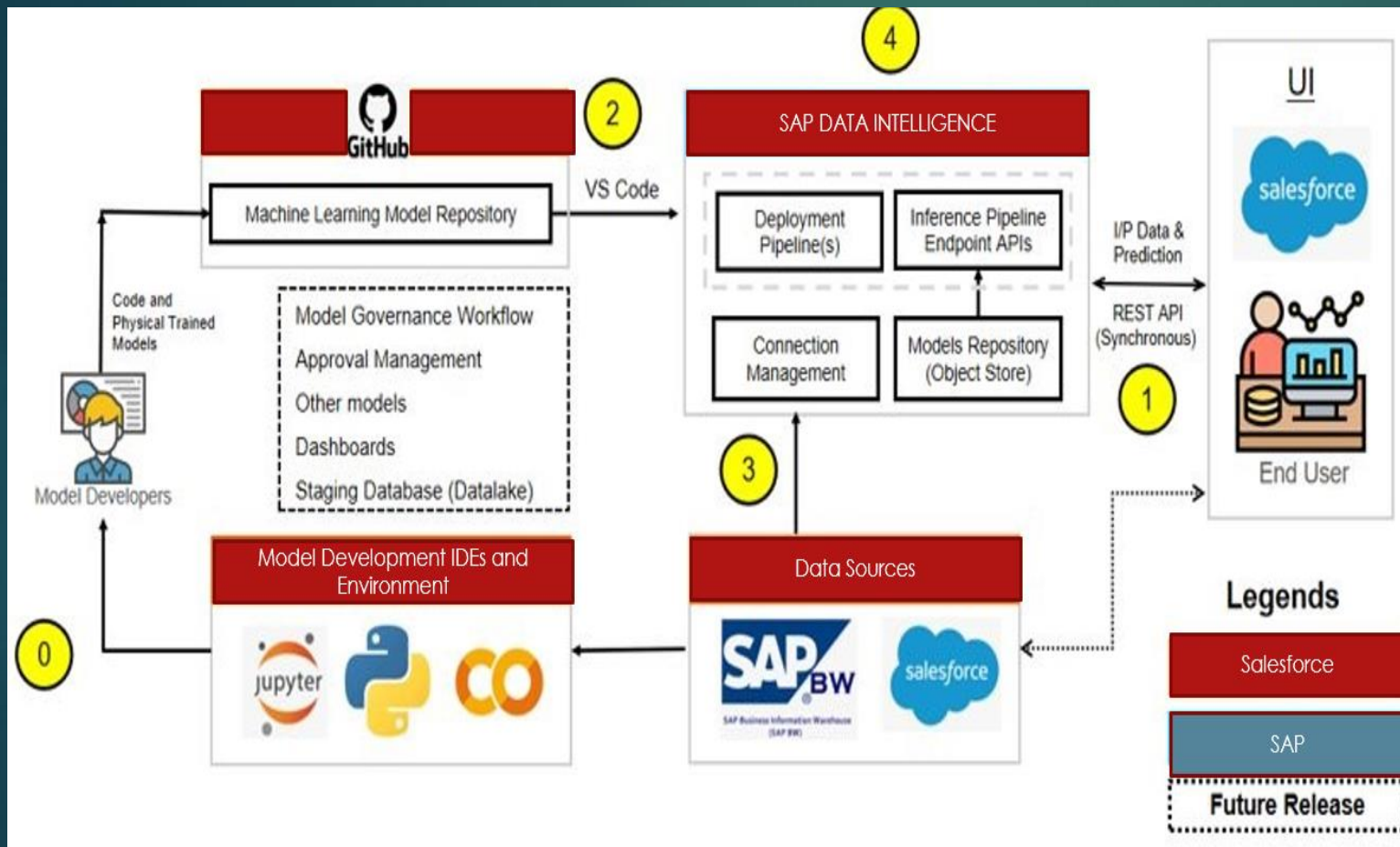


# SAP Data Intelligence Use Case



# SAP Data Intelligence

## Use Case with Salesforce Integration



### 0: Model Development

The model is developed in python environments like jupyter , Collab etc. The developed code and the physically trained model (pickle files) will be loaded to machine learning repository in GitHub.

### 1,2: GitHub and VS Code

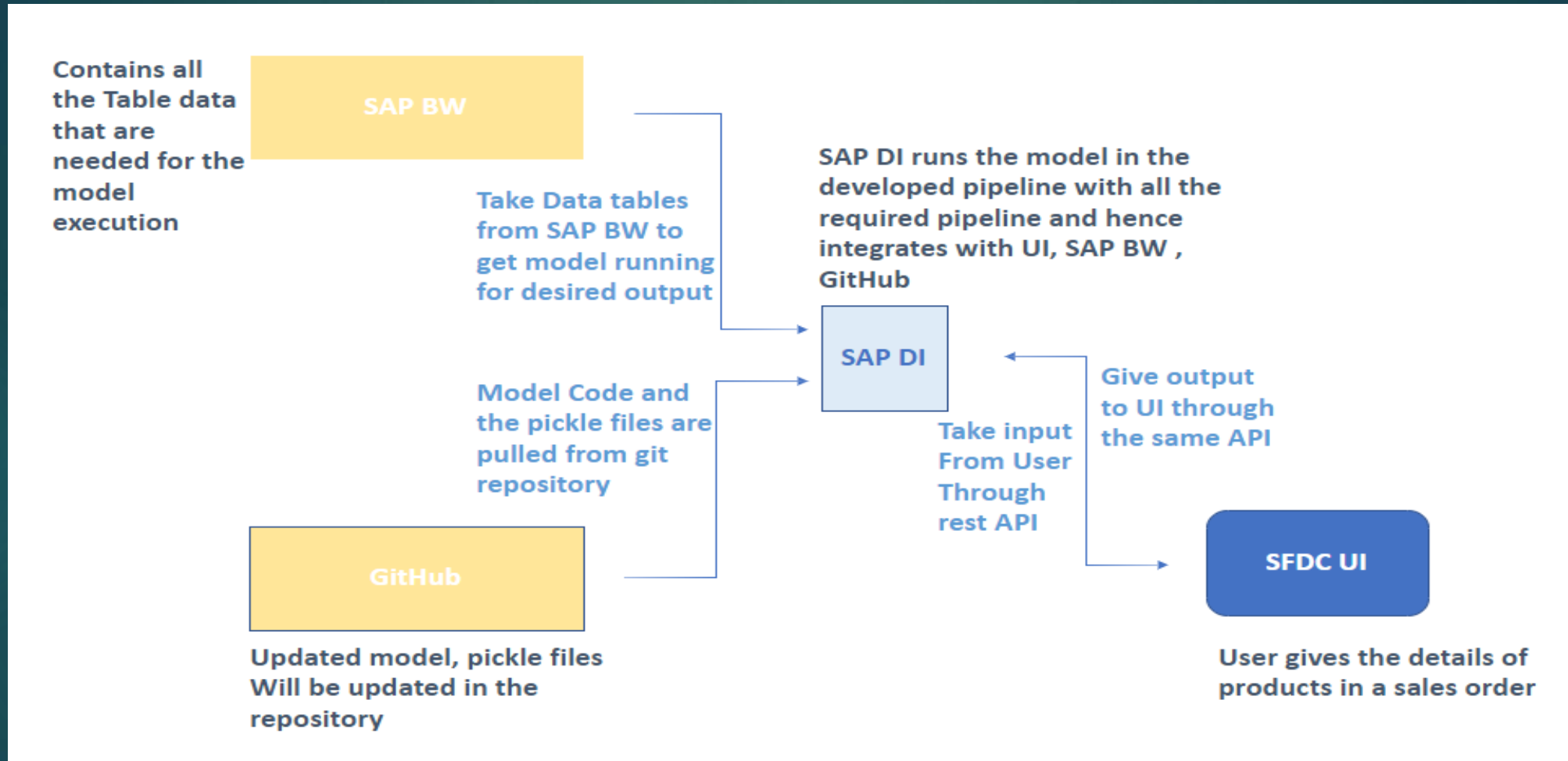
The VS Code is installed in SAP data intelligence and the repository is pulled to SAP DI through VS Code commands.

### 3,4: Model Development using given files

The Inference model will be developed in the pipeline (uses different operators) Currently data files are cloned from git, in future it will be from SAP BW. The input to the inference model will be from SFDC and the calculated output will be given to the SFDC through the rest API.

# SAP Data Intelligence

To-be System State



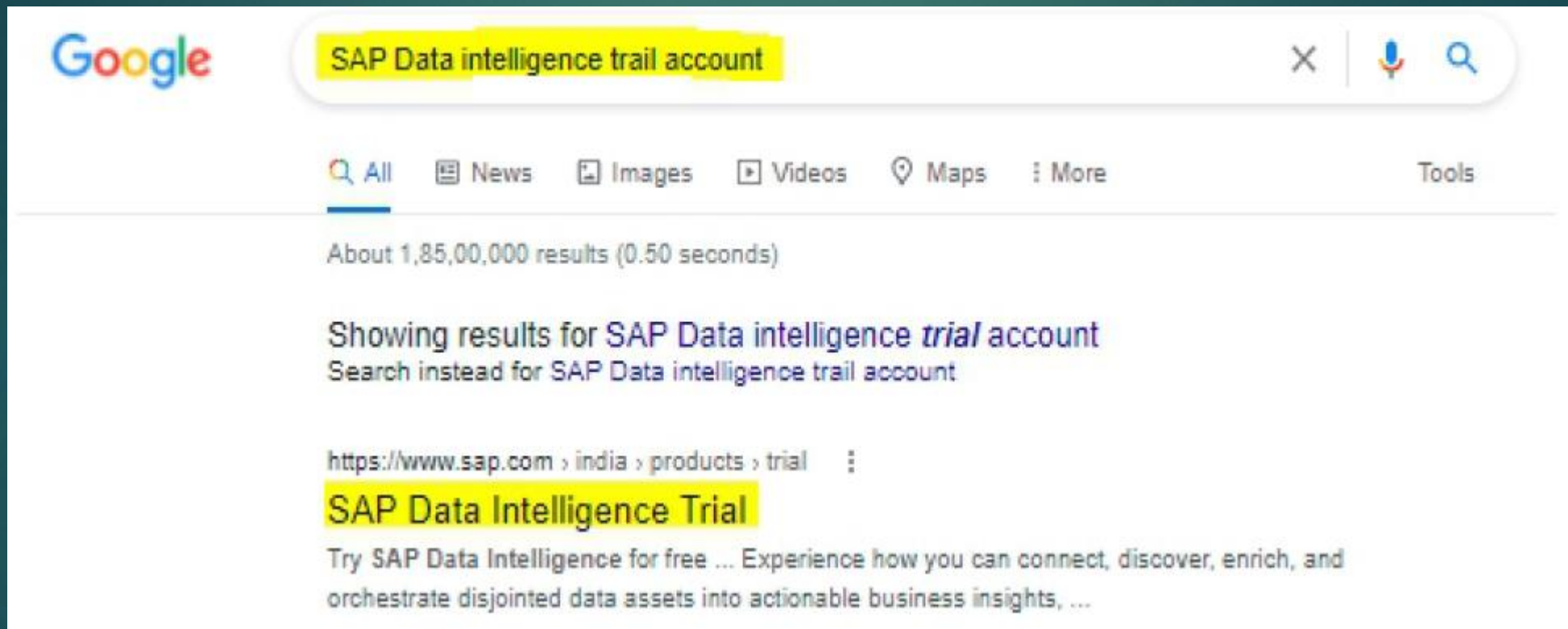


The background of the slide is a dark blue-grey color with a complex, glowing circuit board pattern. The lines of the circuit are light grey and some points are highlighted with small blue-white dots. In the top right corner, there is a solid red vertical rectangular bar.

# SAP Data Intelligence Demo

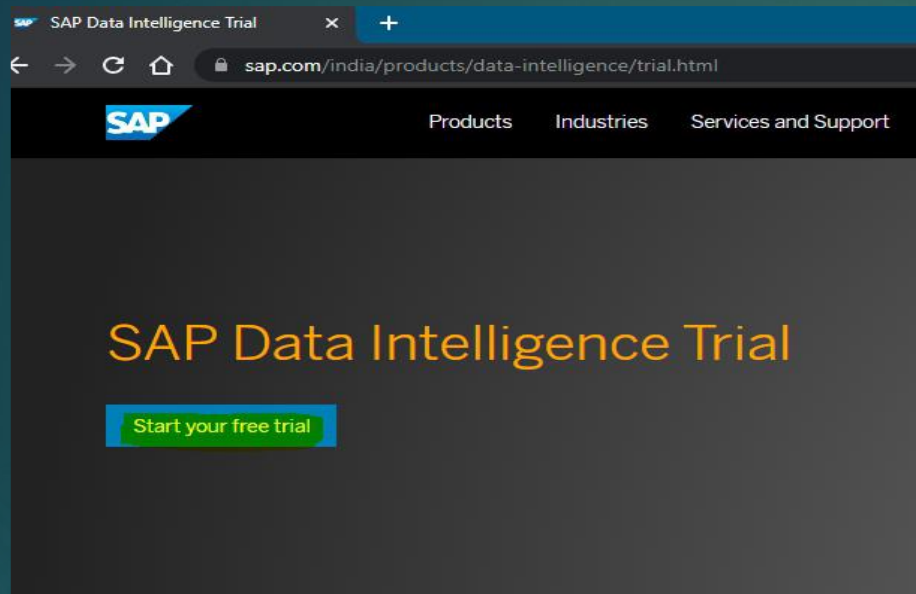
# Steps to Create SAP Data Intelligence Trail Account

1. Go to google and type 'SAP Data Intelligence Trail Account' and click on first link





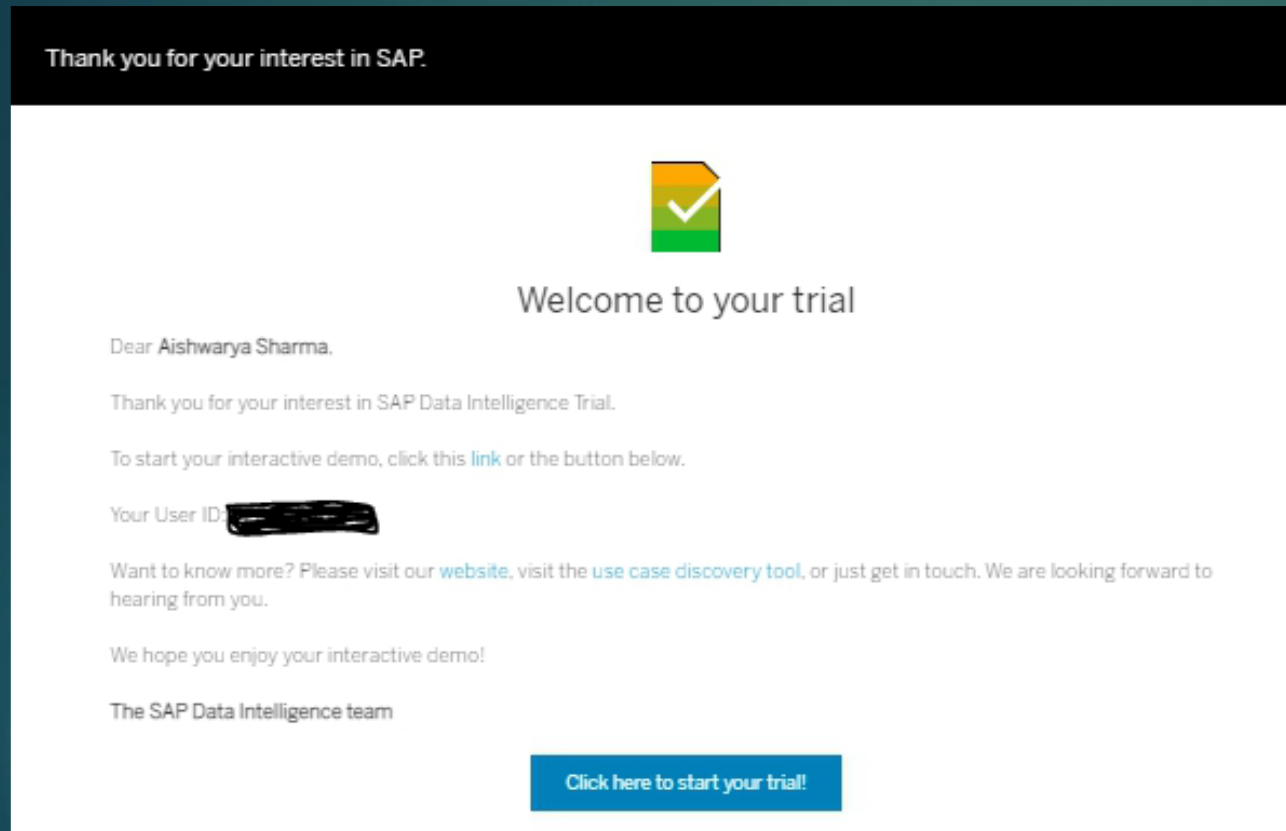
## 2. Click on 'Start Free Trail Account'



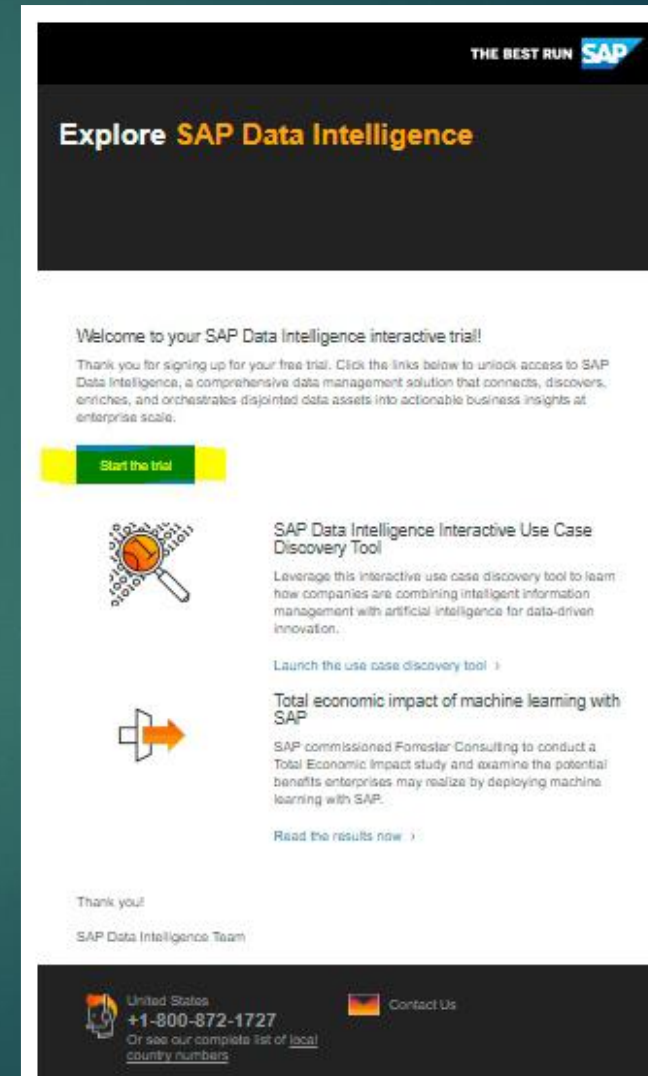
## 3. A pop-up will appear, fill all the details. Accept the terms & conditions and Submit.

A screenshot of a registration pop-up window. At the top, a progress bar shows three steps: 1. Register, 2. Verify your e-mail, and 3. Access all resources. The main heading is 'One time registration for continuous access'. Below this, there are four icons with labels: 'Free Trial Software' (laptop icon), 'Documents & Reports' (document icon), 'SAP Community' (group of people icon), and 'Join virtual events' (clapperboard icon). The registration form is titled 'Tell us about yourself' and contains the following fields: 'Business e-mail address \*', 'Last name \*', 'Country/Region' (dropdown menu showing 'India'), 'Department \*' (dropdown menu), 'First name \*', 'Company \*', 'Phone' (dropdown menu showing '+91 XXXXX XXXXX'), 'Relationship to SAP \*' (dropdown menu), 'Create password \*' (with a note 'Must have at least 8 characters'), and 'Confirm password \*'. There is a checkbox for 'I have read and understood the Terms and Conditions of SAPcom \*'. Below the checkbox, it states 'SAP will use any of the data provided hereunder in accordance with the Privacy Statement.' and 'This site is protected by reCAPTCHA and the Google Privacy Policy and Terms of Service apply.' At the bottom right, there is a box for 'Already registered?' with a 'Login' button. A 'Submit' button is located at the bottom left of the form.

4. After successful registration, a pop-up message will appear like below screenshot. Also, you will get a confirmation mail from SAP.

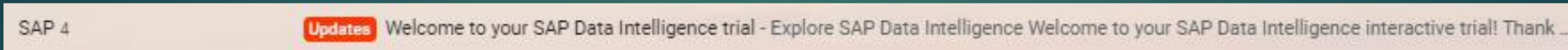


## Email Screenshot



5. Click on 'Start Free Trial Account' or go to your mail-id, open mail from SAP which confirms your registration

Email Screenshot



Open your Trial Account by clicking on respective links

Welcome to your SAP Data Intelligence interactive trial!

Thank you for signing up for your free trial. Click the links below to unlock access to SAP Data Intelligence, a comprehensive data management solution that connects, discovers, enriches, and orchestrates disjointed data assets into actionable business insights at enterprise scale.

[Start the trial](#)

# SAP Data Intelligence Trail Account

- SAP DI can be accessed through Trail account which is a pre-configured SAP DI landscape for testing and evaluating Data Intelligence applications.
- SAP DI trail account is cloud-based appliance library which currently exists public cloud accounts on Amazon AWS, Microsoft Azure and Google Cloud Platforms.

The screenshot displays the SAP Cloud Appliance Library interface. The top navigation bar includes the SAP logo, 'Cloud Appliance Library', and user options like 'Log On'. The left sidebar shows 'Solutions' and 'Release Notes'. The main content area features the solution 'SAP Data Intelligence, trial edition 3.1', which is highlighted in yellow. It indicates the publisher is SAP SE and it's available on Amazon Web Services. Below this, there are tabs for 'Info', 'Recommended VM Sizes', and 'Kubernetes Cluster'. The 'Info' tab is active, showing a description of the solution and a list of installed products, including SAP Data Intelligence 3.0. It also provides release and update dates. A 'Getting Started Guide' link is available. The 'Recommended VM Sizes' section shows a table with columns for Cloud Provider, Virtual Machine, and Size. The table lists Amazon Web Services with a Jump Box virtual machine of size c4.2xlarge (8 cores, 15GB memory, SSD). A 'Calculate Cost' button is present. The 'Kubernetes Cluster' section is partially visible at the bottom.

**SAP Data Intelligence, trial edition 3.1**

Publisher: SAP SE  
Available In: Amazon Web Services

**Info** Recommended VM Sizes Kubernetes Cluster

**Description:**  
SAP Data Intelligence includes data sharing, pipelining and orchestration capabilities that help companies accelerate and expand data flow across a diverse data landscape. It includes features for Data Pipelines, Task Workflows as well as Data Governance.

**Installed Products**

SAP Data Intelligence 3.0

Release Date: Feb 24, 2021  
Update: 59 (Sep 9, 2021, 13:11:14)

[Getting Started Guide](#)

**Recommended VM Sizes**

Cloud Provider	Virtual Machine	Size
Amazon Web Services	Jump Box	c4.2xlarge (8 cores, 15GB memory, SSD)

[Calculate Cost](#)

**Kubernetes Cluster**

Cloud Provider	Name	Size	Number of Nodes
----------------	------	------	-----------------

SAP Cloud Appliance Library

Solutions

Support

Links

Release Notes

Solutions /

SAP Data Intelligence, trial edition 3.1

Create Instance

Calculate Cost

SAP

Publisher: SAP SE

Available

Available In: Amazon Web Services

Info

Recommended VM Sizes

Kubernetes Cluster

Description:

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Getting Started Guide

Recommended VM Sizes

Calculate Cost

Cloud Provider	Virtual Machine	Size
Amazon Web Services	Jump Box	c4.2xlarge (8 cores, 15GB memory, SSD)

Kubernetes Cluster

Cloud Provider	Name	Size	Number of Nodes
----------------	------	------	-----------------

Creating a Solution Instance



## Terms and Conditions



## SAP Cloud Appliance Library

Read the terms and conditions for SAP Cloud Appliance Library. Use the scroll bar or press the Page Down key to see the rest of the agreement and then choose "I Accept".

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Strike Printer

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I Accept

I Decline

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## SAP Data Intelligence, trial edition 3.1

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Licensee and SAP agree that: (a) this Agreement is between SAP and Licensee, and (b) that SAP is solely responsible for the Trial Software and the content thereof.

[I Accept](#)[I Decline](#)

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Search for services, features, marketplace products, and docs

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aws\_learn ▼

Global ▼

Support ▼

## ★ Favorites

 Resource Groups & Tag Editor

## Recently visited

IAM  
EC2  
Console Home  
Billing  
AWS Organizations  
AWS Cost Explorer  
Support  
RDS

## All services

Amazon MemoryDB for Redis

### Migration & Transfer

AWS Migration Hub  
AWS Application Migration Service  
Application Discovery Service  
Database Migration Service  
Server Migration Service  
AWS Transfer Family  
AWS Snow Family  
DataSync

### Networking & Content Delivery

VPC  
CloudFront  
Route 53  
API Gateway  
Direct Connect  
AWS App Mesh  
AWS Cloud Map  
Global Accelerator

Config  
OpsWorks  
Service Catalog  
Systems Manager  
AWS AppConfig  
Trusted Advisor  
Control Tower  
AWS License Manager  
AWS Well-Architected Tool  
Personal Health Dashboard   
AWS Chatbot  
Launch Wizard  
AWS Compute Optimizer

### ★ Resource Groups & Tag Editor

Amazon Grafana  
Amazon Prometheus  
AWS Proton  
Incident Manager

### Media Services

Kinesis Video Streams  
MediaConnect  
MediaConvert

Data Pipeline  
AWS Data Exchange  
AWS Glue  
AWS Lake Formation  
MSK  
AWS Glue DataBrew  
Amazon FinSpace

### Security, Identity, & Compliance IAM

Resource Access Manager  
Cognito  
Secrets Manager  
GuardDuty  
Inspector  
Amazon Macie  
AWS Single Sign-On  
Certificate Manager  
Key Management Service  
CloudHSM  
Directory Service  
WAF & Shield  
AWS Firewall Manager

### End User Computing

WorkSpaces  
AppStream 2.0  
WorkLink

### Internet of Things

IoT Core  
FreeRTOS  
IoT 1-Click  
IoT Analytics  
IoT Device Defender  
IoT Device Management  
IoT Events  
IoT Greengrass  
IoT SiteWise  
IoT Things Graph

### Game Development

Amazon GameLift

aws

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Access analyzer

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IAM > User groups > Create user group

Create user group

Name the group

User group name

Enter a meaningful name to identify this group.

SAPDI\_TRAINING

Maximum 128 characters. Use alphanumeric and '+=,.\_@-\_' characters.



Services ▼

## Identity and Access Management (IAM) ✕

Dashboard

### ▼ Access management

User groups

**Users**

Roles

Policies

Identity providers

Account settings

### ▼ Access reports

Access analyzer

Archive rules

Analyzers

#### Users (1) [Info](#)

An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.



Delete

Add users

Find users by username or access key

< 1 > ⚙

<input type="checkbox"/>	User name	Groups	Last activity	MFA	Password age	Active key age
--------------------------	-----------	--------	---------------	-----	--------------	----------------

# SAPDI-TRAINING


[Delete](#)

## Summary

[Edit](#)

User group name  
SAPDI-TRAINING


Creation time  
October 01, 2021, 14:18 (UTC+05:30)










ARN  
 arn:aws:iam::459494583191:group/SAPDI-TRAINING

[Users](#)[Permissions](#)[Access advisor](#)

### Permissions policies (4) [Info](#)

You can attach up to 10 managed policies.

[Simulate](#)[Remove](#)[Add permissions](#) [<](#) 1 [>](#)

<input type="checkbox"/>	Policy Name 	Type	Description
<input type="checkbox"/>	  AmazonEC2FullAccess	AWS managed	Provides full access to Amazon EC2
<input type="checkbox"/>	  ReadOnlyAccess	AWS managed	Provides read-only access to AWS s
<input type="checkbox"/>	  AmazonVPCFullAccess	AWS managed	Provides full access to Amazon VPC
<input type="checkbox"/>	  AWSAccountUsageReportAccess	AWS managed	Allows users to access the Account l

aws

Services ▾

🔍

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aws\_learn ▾

Global ▾

Support ▾

Identity and Access Management (IAM) x

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Users

Roles

Policies

Identity providers

📘

Introducing the new Users list experience

We've redesigned the Users list experience to make it easier to use. [Let us know what you think.](#)

✕

IAM > Users

Users (1) Info

An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.

🔄

Delete

Add users

🔍

Find users by username or access key

< 1 > ⚙️

<input type="checkbox"/>	User name ▾	Groups ▾	Last activity ▾	MFA ▾	Password age ▾	Active key age ▾
--------------------------	-------------	----------	-----------------	-------	----------------	------------------



# Add user



## Set user details

You can add multiple users at once with the same access type and permissions. [Learn more](#)

User name\*

[+ Add another user](#)

## Select AWS access type

Select how these users will access AWS. Access keys and autogenerated passwords are provided in the last step. [Learn more](#)

Access type\*

☐

**Programmatic access**

Enables an **access key ID** and **secret access key** for the AWS API, CLI, SDK, and other development tools.

☐

**AWS Management Console access**

Enables a **password** that allows users to sign-in to the AWS Management Console.

## Add user

1

2

3

4

5

### ▼ Set permissions



Add user to group



Copy permissions from  
existing user



Attach existing policies  
directly

Add user to an existing group or create a new one. Using groups is a best-practice way to manage user's permissions by job functions. [Learn more](#)

### Add user to group

Create group

Refresh

Search

Showing 1 result

Group ▼

Attached policies



SAPDI-TRAINING

AmazonEC2FullAccess and 3 more

### ► Set permissions boundary

Cancel

Previous

Next: Tags

## Review

Review your choices. After you create the user, you can view and download the autogenerated password and access key.

### User details

User name	DI
AWS access type	Programmatic access - with an access key
Permissions boundary	Permissions boundary is not set

### Permissions summary

The user shown above will be added to the following groups.

Type	Name
Group	<a href="#">SAPDI-TRAINING</a>

### Tags

*No tags were added.*

[Cancel](#)

[Previous](#)

[Create user](#)

## Add user

1

2




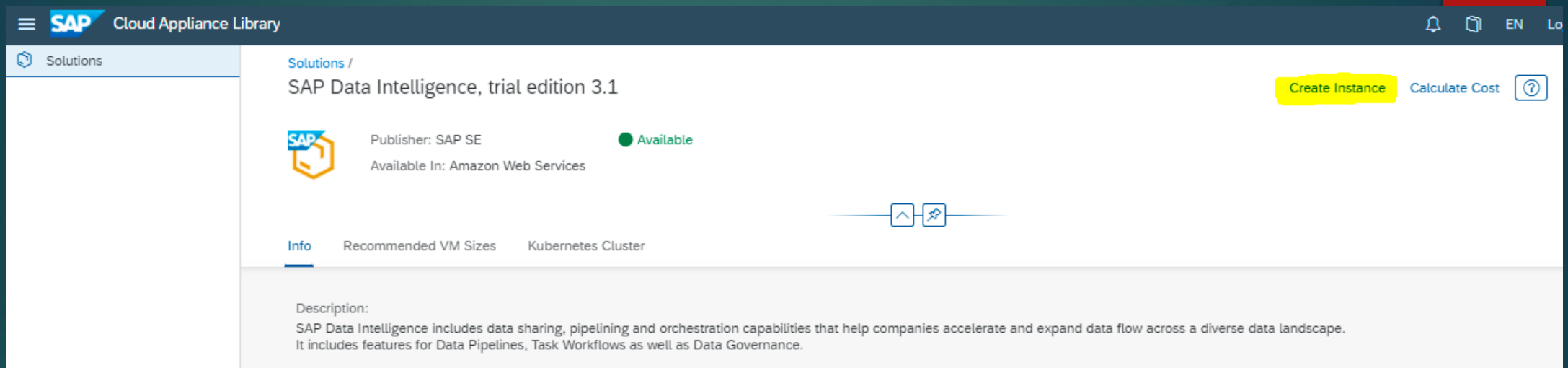
### Success

You successfully created the users shown below. You can view and download user security credentials. You can also view instructions for signing in to the AWS Management Console. This is the last time these credentials will be available to you; you can create new credentials at any time.

Users with AWS Management Console access can sign-in at: <https://782306403708.signin.aws.amazon.com/console>

 Download .csv

	User	Access key ID	Secret Access Key
	CAL User	AKIA3M IIVMV6D4HH96 JJ	*****



The screenshot displays the SAP Cloud Appliance Library interface. The top navigation bar includes the SAP logo and the text "Cloud Appliance Library". On the right side of the header, there are icons for notifications, a document, and user information (EN, Lo). A left sidebar contains a "Solutions" menu item. The main content area shows the path "Solutions / SAP Data Intelligence, trial edition 3.1". To the right of this title are two buttons: "Create Instance" (highlighted in yellow) and "Calculate Cost", followed by a help icon. Below the title, the SAP logo is shown next to the text "Publisher: SAP SE" and "Available In: Amazon Web Services". A green dot and the word "Available" indicate the solution's status. A horizontal line with two icons (a square and a square with a plus sign) is positioned below the publisher information. At the bottom, there are tabs for "Info", "Recommended VM Sizes", and "Kubernetes Cluster". The "Info" tab is selected, showing a "Description:" section with the text: "SAP Data Intelligence includes data sharing, pipelining and orchestration capabilities that help companies accelerate and expand data flow across a diverse data landscape. It includes features for Data Pipelines, Task Workflows as well as Data Governance."

# Go to Cloud Appliance Library & Create Instance



Thank You