Empowering Business Applications through SAP-Enabled AI Integration

Daniel Störkel, Product Manager Business AI, SAP

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SAPinsider



In This Session

- How SAP Business AI can be effectively used
- Understand how SAP integrates Al into your business
- Explore SAPs AI offerings

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Agenda

- 1. Introduction SAP Business AI
- 2. E2E AI Use Case Integration
- 3. Status Quo & Roadmap Outlook
- 4. Wrap-Up



Introduction SAP Business AI

E2E AI Use Case Integration

Status Quo & Roadmap Outlook

Wrap-Up

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What SAP Business AI does for your Business

Increase your top line Grow customer loyalty • Accelerate sales process • **Optimize inventory levels** • **Improve your bottom line** Accelerate demand planning Increase expense compliance

• Reduce working capital

The Future with SAP Business AI

The most important business insights delivered with perfect clarity

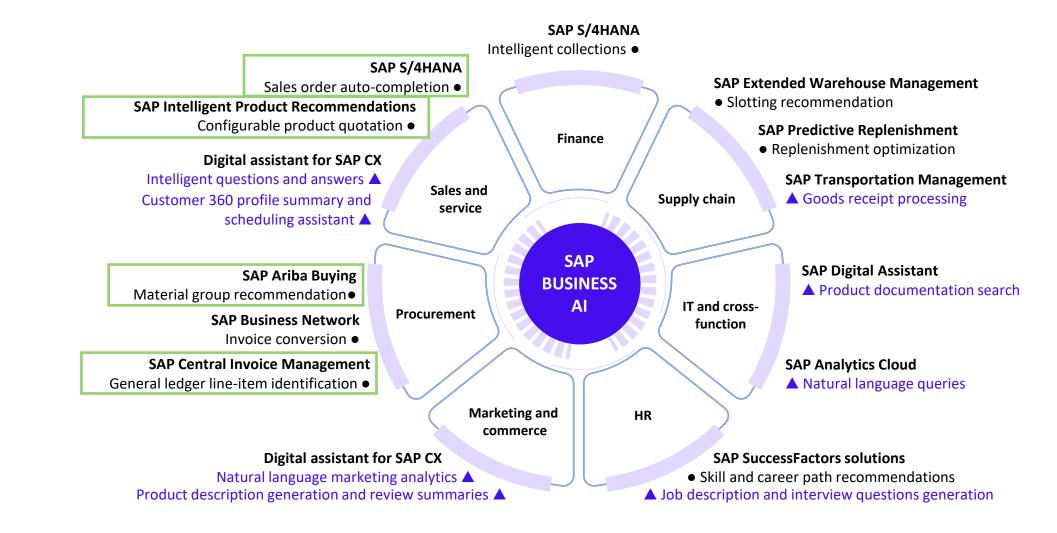




Employee productivity is augmented delivering improved outcomes Entirely new processes are generated to transform business performance



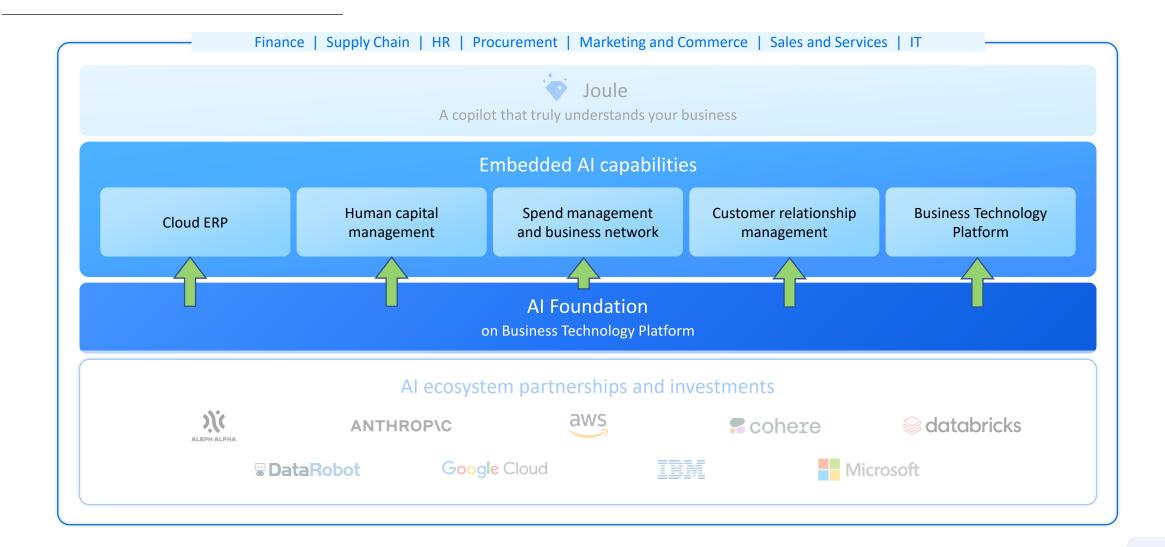
Built-in Capabilities



SAP Business AI Approach

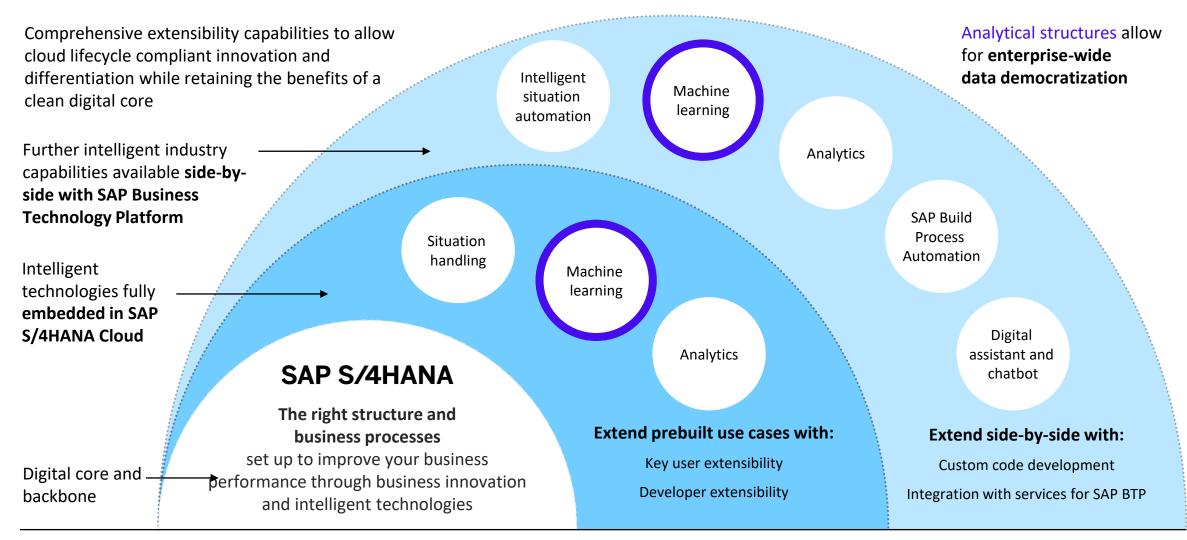
		A copilot that tr	Joule Joule vour b	usiness		
Embedded AI capabilities						
Cloud ERP	Human o manage		end management I business network	Customer relationship management	Business Technolog Platform	
Al Foundation on Business Technology Platform						
		on Busin	ess Technology Platforn	1		
			ess Technology Platform rtnerships and inv			
ALEPHALPHA					<i> ⇔</i> databricks	

SAP Business AI Approach



SAP S/4HANA Cloud and SAP Business Technology Platform

A versatile platform to speed innovation



Introduction SAP Business AI

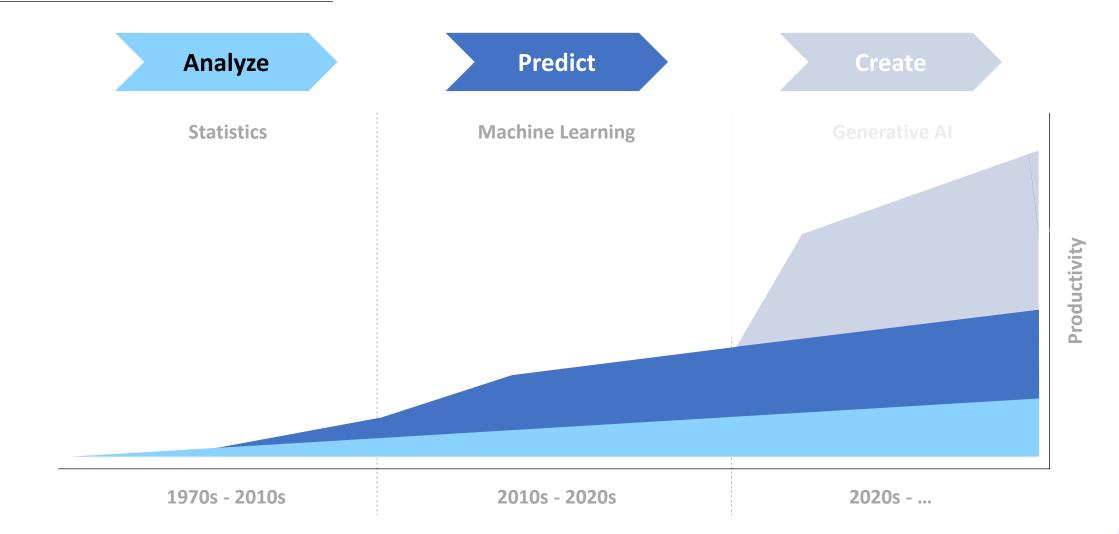
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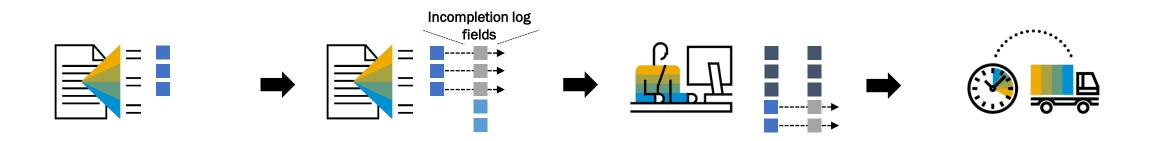
Todays Frame



Use Case Example

Sales Order Completion

Manual Sales Order Completion Process



New sales order is created Missing mandatory fields to process sales order

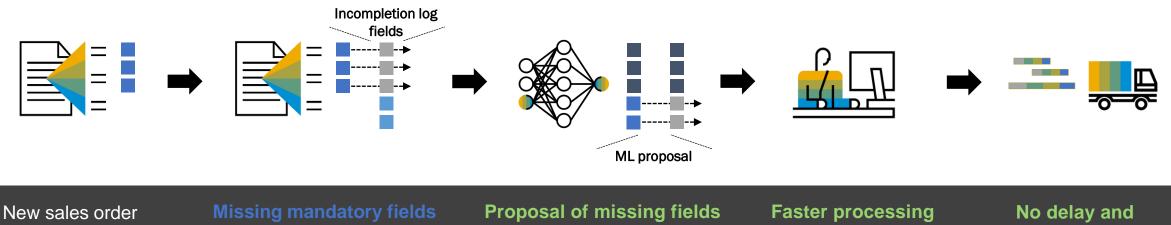
Manual correction needed to complete sales order

Might cause a delay in delivery

Use Case Example

Sales Order Completion

Machine Learning Aided Sales Order Completion Process



is created

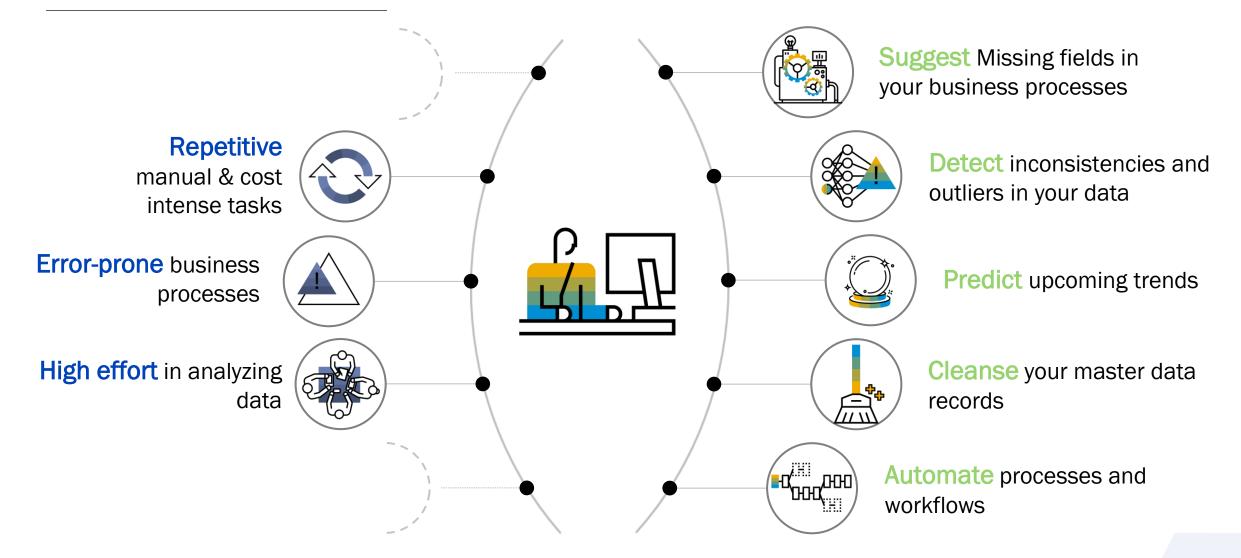
to process sales order

to complete sales order

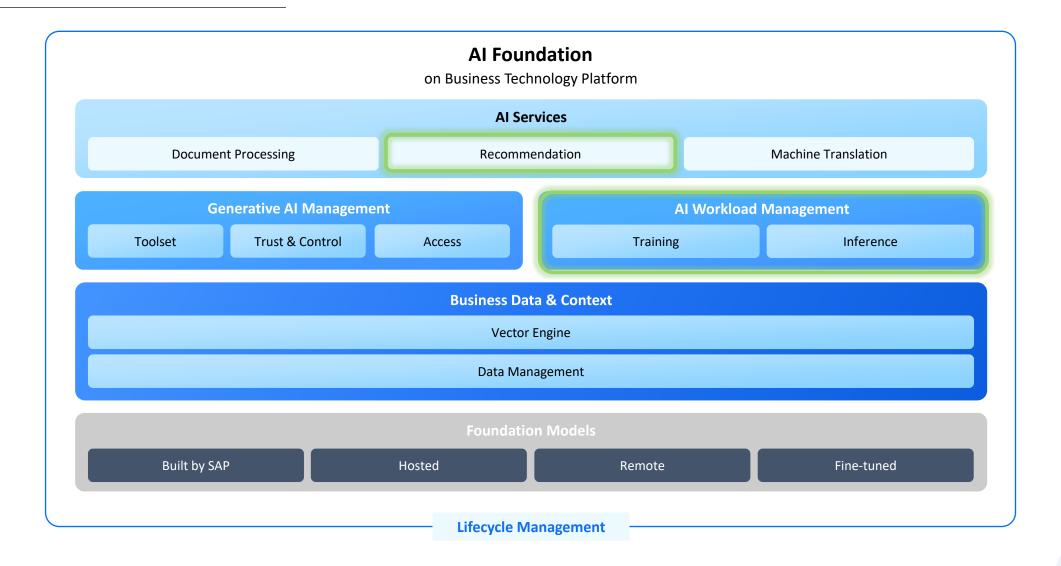
or even automation

fast delivery

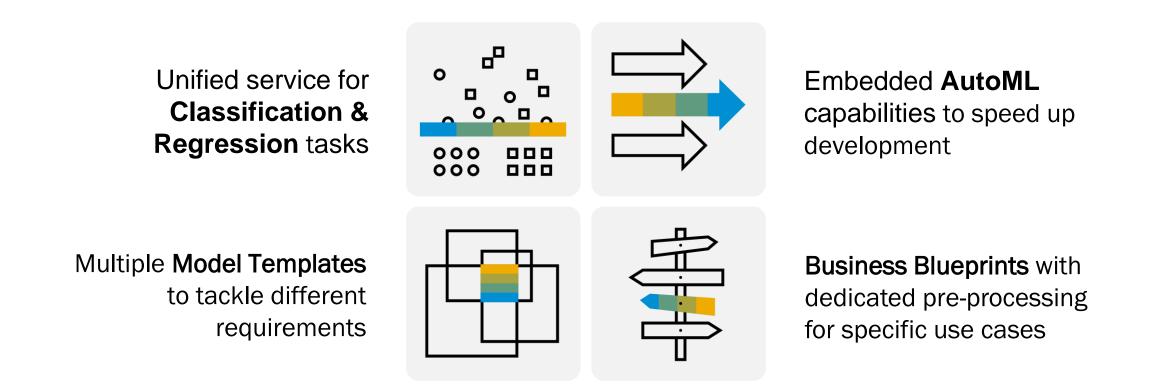
Challenges in Enterprise Data Management



SAP AI Foundation Portfolio Overview

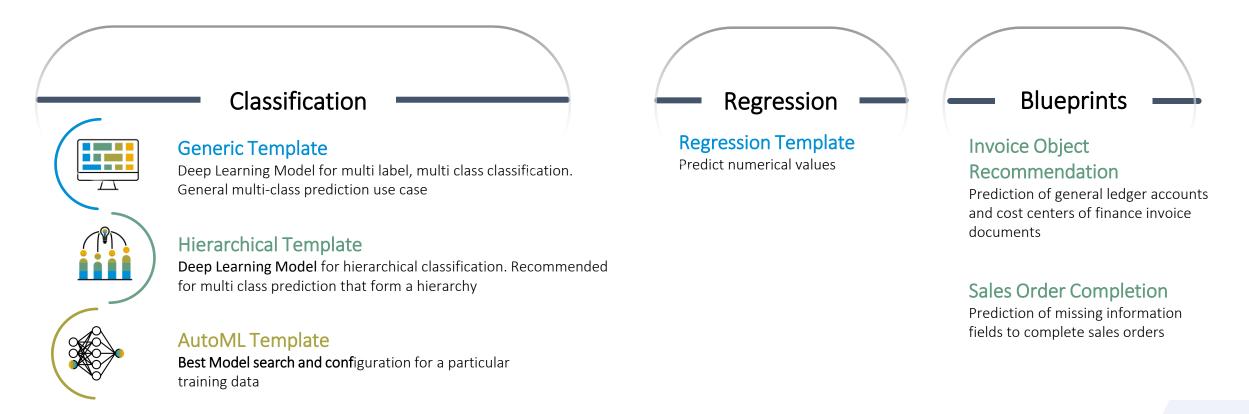


Overview



Model Templates & Business Blueprints

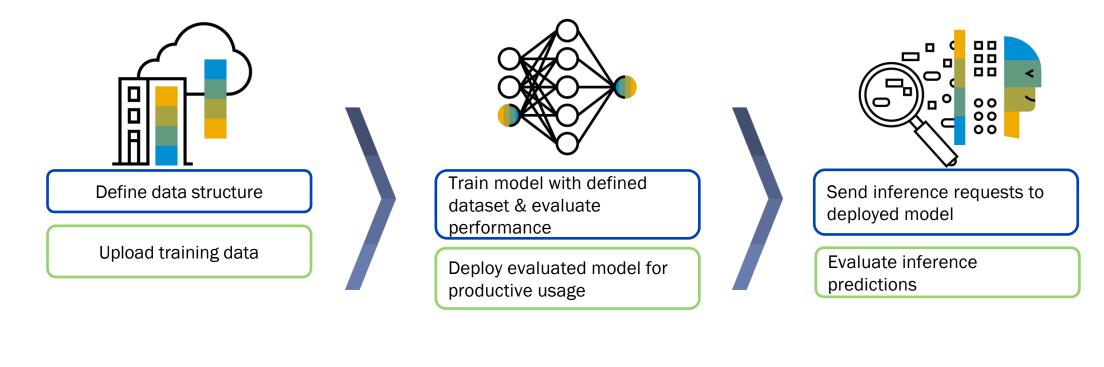
- Based on the business problem, there are multiple pre-defined model templates to choose from.
- Using Business Blueprints, customers can address specific use cases that have specific requirements for pre-processing, training and other tuning options.



Features



Lifecycle





Define dataset & upload data



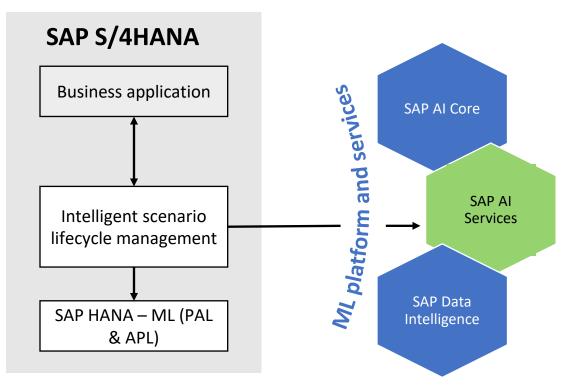
Train & deploy model



Get predictions

Integration Possibilities

Via Intelligent Scenario Lifecycle Management (ISLM)



What is ISLM

- Single-entry point within SAP S/4HANA to efficiently integrate and operate ML scenarios
- Standardized framework delivered in SAP BASIS Component; ISLM part of standard license for SAP S/4HANA

Key benefits of ISLM

- Standardizes and streamlines application integration with various ML services and runtimes with minimal coding
- Enables end-to-end lifecycle operations in the context of the business application right from exploration, prerequisite checks, training, and activation

Al Adoption is Accelerating in the Industry

Embedded

Machine learning provider (such as APL and PAL for SAP HANA) runs in the same stack as the business application (SAP S/4HANA).

Side-by-side scenario

Machine learning provider runs in a different stack (for example, SAP AI Core and AI services for SAP BTP) than the business application (SAP S/4HANA).

Standardized consumption and operation of machine learning scenarios for both flavors

Discover prebuilt use cases in ISLM

- Explore and identify relevant use cases, for example, LOB-specific; check additional information about business application
- Check readiness requirements for an intelligent scenario on a given system running SAP S/4HANA

Operate in ISLM

- Maintain connection for the intelligent scenario
- Train ML model with customer data
- Analyze quality of trained ML model

Run productively

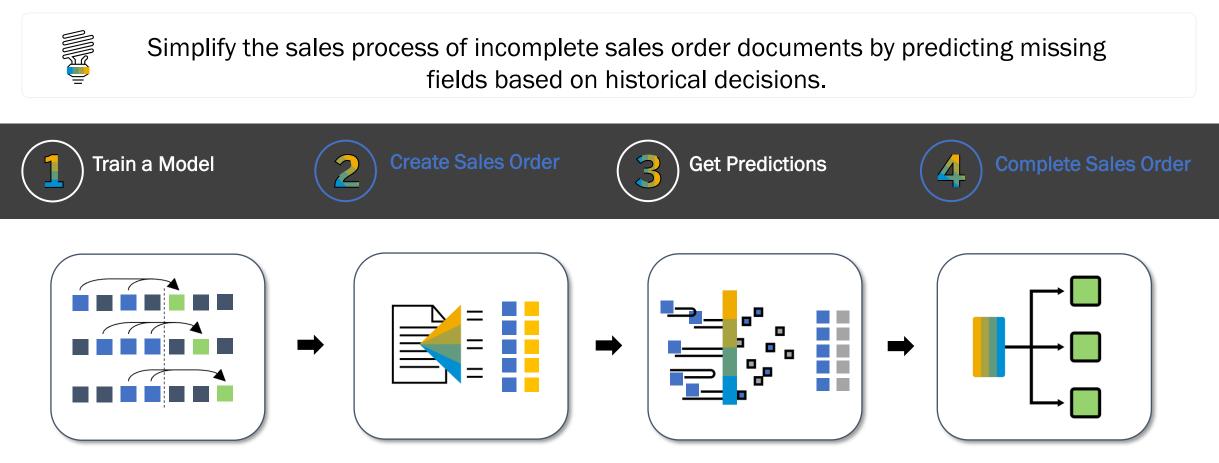
 Deploy and activate to specify which trained model to use in business application

3

 Model consumption in business scenario with SAP S/4HANA

SAP Home -	Search everything	Q	© Q 🗐
My Home Internal Sales Y Billing			
Internal Sales Overview Quick Access Monitor Sales Order Autocompletion			
4 Incomplete Orders			

Sales Order Completion in a Nutshell



Train a model to derive patterns from past decisions

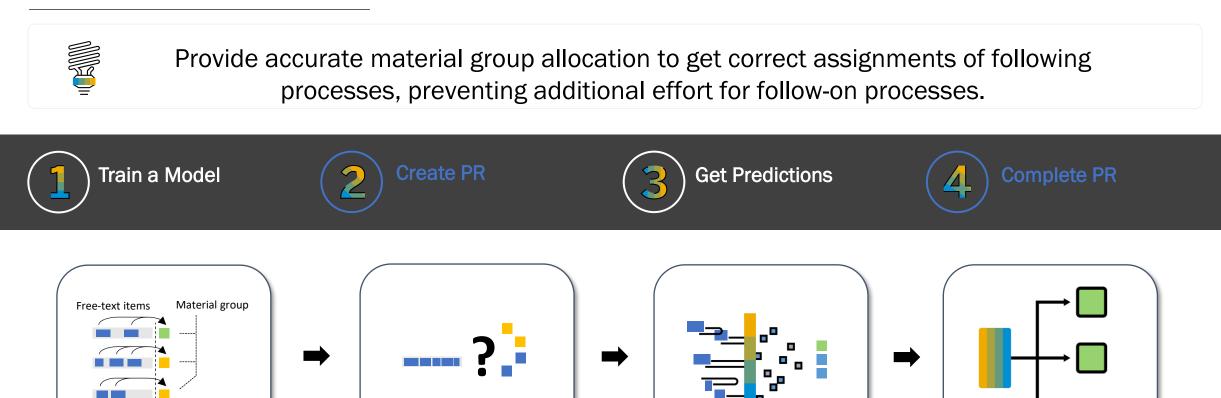
Missing mandatory fields to process the sales order

Use existing fields as input for the trained model to get predictions

Propose missing field values with a given confidence

Material Group Proposal

Via Data Attribute Recommendation



Train a model to derive patterns from past purchase requisitions.

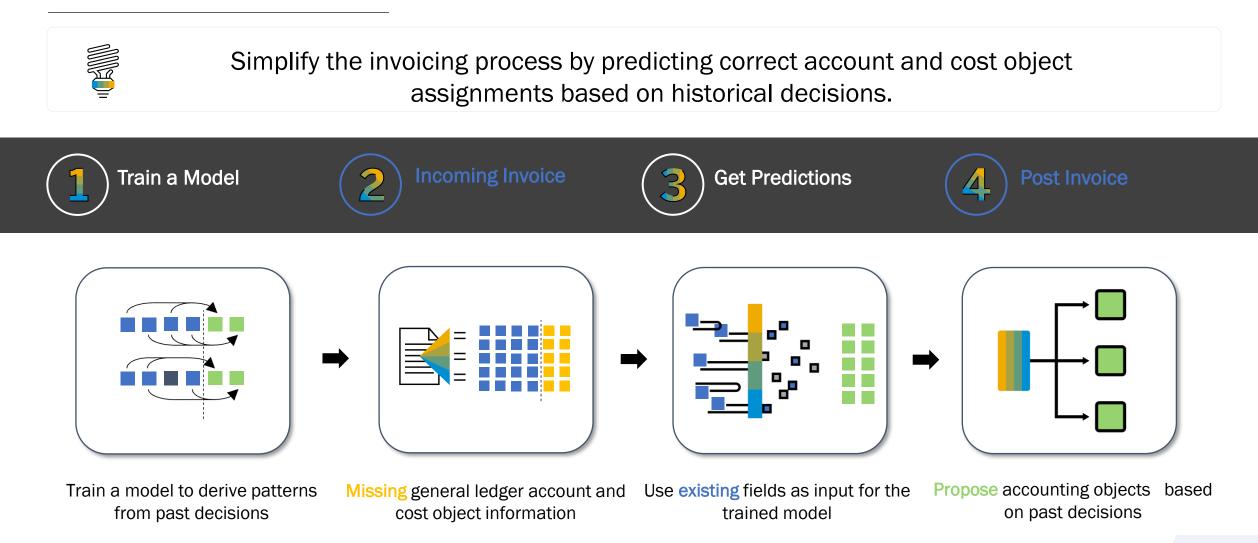
Add missing knowledge on possible material group assignments.

Use **textual input** for the trained model to get predictions.

Propose fitting material groups with a given confidence.

Invoice Object Recommendation

Via Data Attribute Recommendation



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Pre-built AI Use Cases in S/4 HANA

Available use case	Line of business	Scenario type
Sales orders created from unstructured data	Sales	Side-by-side
Material group recommendation	Sourcing & Procurement	Side-by-side
Detect trends of purchase contract quantity consumption	Sourcing & Procurement	Embedded
Supplier delivery prediction	Sourcing & Procurement	Embedded
Prediction of time frame for stock in transit	Supply Chain	Embedded
Early detection of slow- and nonmoving stock	Supply Chain	Embedded
Sales performance prediction	Sales	Embedded
Processing outsorted billing documents	Utilities	Embedded
Behavioral insights	Services	Embedded

AI Scenarios

Finance	Supply Chain	Customer Experience	Procurement	Human Resources	IT and Cross-Function
 Tax Compliance Cash Application Intelligent accrual Travel expense auditing Travel expense verification Invoice processing Business Integrity screening Goods and invoice receipt matching Mobile expense entry 	 Stock in transit Visual Inspection Demand forecasting & sensing Project-cost prediction Predicted delivery processing Demand-driven replenishment Forward scheduling Field service scheduling Asset prediction & optimization Slow-moving materials prediction 	 Predicted delivery processing Discount recommendations Intelligent sales execution Relationship intelligence Sales route optimization Sales order automation Opportunity scoring Customer insights Guided selling Lead scoring Product recommendations 	 Guided buying Sourcing item and supply prediction Material group recommendations Invoice object recommendations Job matching for contingent workforce Resume ranking for contingent workforce O'Net labelling 	 Skill and career path recommendations Learning recommendations Job analyzer 	 Joule Process automation Business rule mining Intrusion detection

Get the latest roadmap information

SAP AI roadmap 2023 & 2024

Al roadmap: <u>https://dam.sap.com/mac/app/p/pdf/asset</u> <u>/preview/MVCpjyr?ltr=a&rc=68</u>





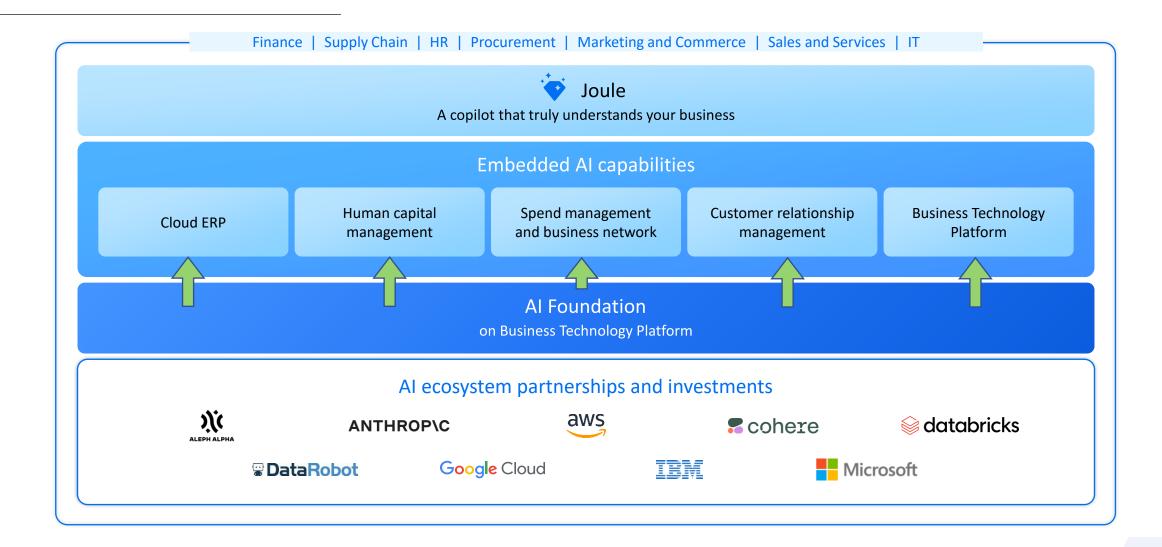
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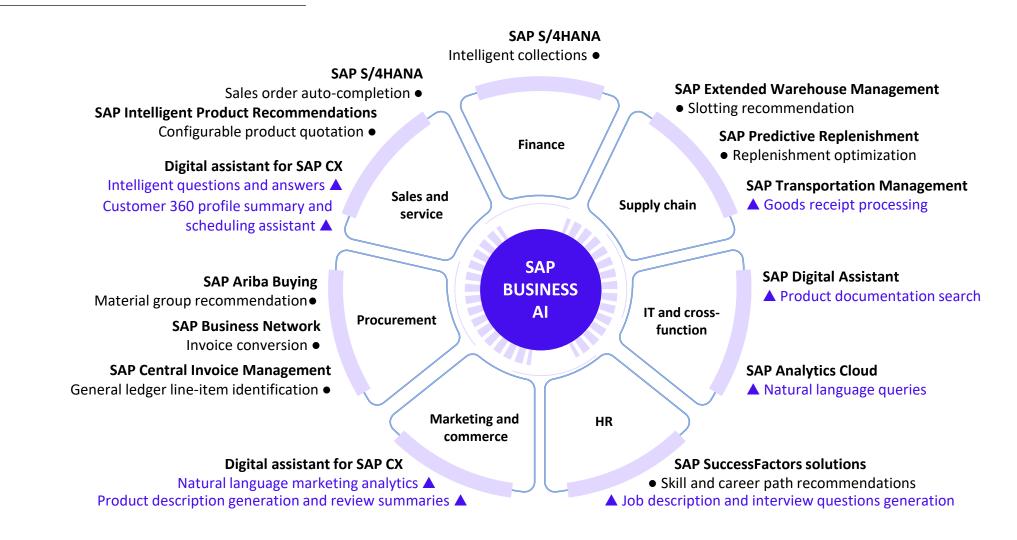
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SAP Business AI Approach



Built-in Capabilities



Key Points to Take Home

https://www.menti.com/alnkawnks8pj

Code: 7679 0328



Where to Find More Information

- SAP Business Al Overview:
- Data Attribute Recommendation
 - Discovery Center
 - <u>Developer Tutorials</u>
 - <u>Try for free</u>

• Link

- <u>Material Group Proposal Demo</u>
- Invoice Object Recommendation Demo

- ISLM
 - Prerequisites
 - Initial setup
 - <u>Configuration information</u>
 - <u>Access the SAP FIORI apps for ISLM</u>

SAP Community blogs and podcast series

ISLM – SAP Community – Topic page

ISLM Frequently Asked Questions

What's New in ISLM?

Daniel Störkel Product Manager SAP Business Al Daniel.Stoerkel@sap.com

Please remember to complete your session evaluation.

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Icons

