

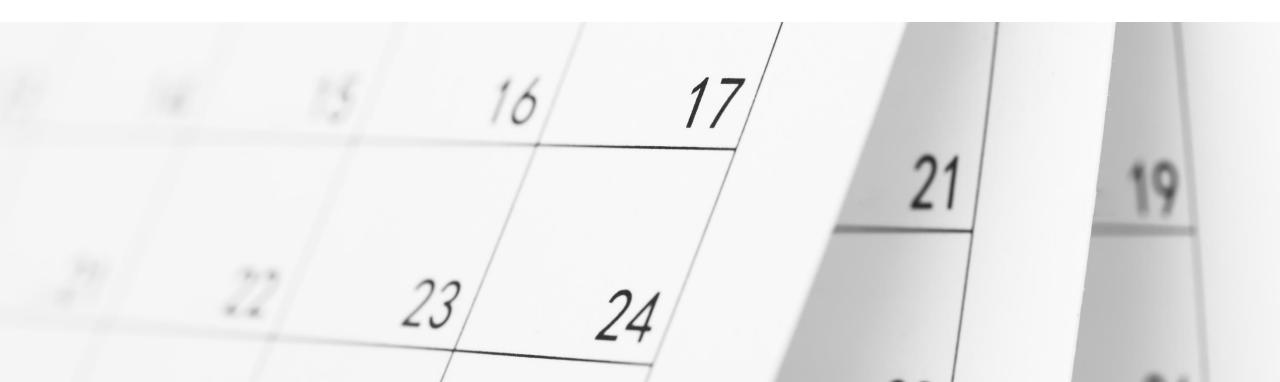
Witalij Rudnicki aka @Sygyzmundovych aka Vitaliy Rudnytskiy aka Віталій Рудницький

- 10 years tech consultant in SAP BI/BW
- 10+ years as SAP <u>Developer Advocate</u>
 in SAP Community & Developer Relations
- All things Data http://bit.ly/SAPDevsData
- Based in Wrocław, Poland
- Organizer of local SAP Community meetups and SAP Inside Track



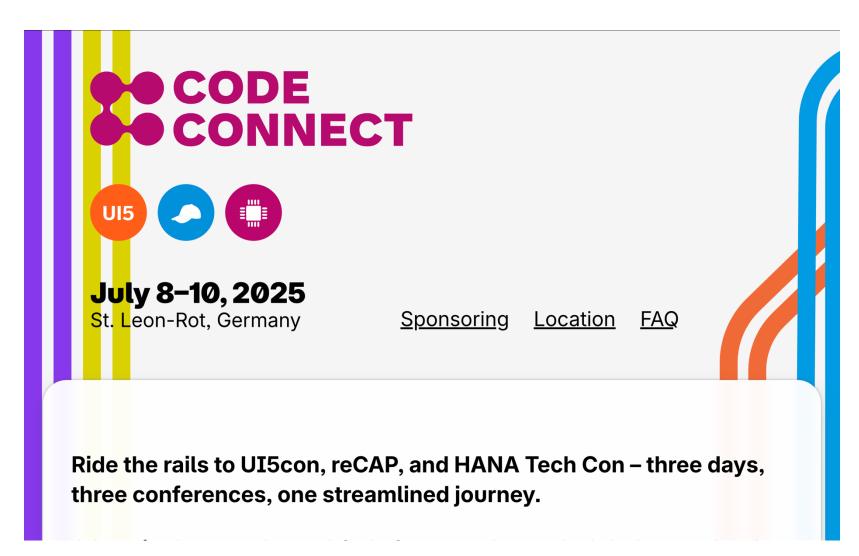
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Events not be missed



Code Connect:

https://code-connect.dev/



Public

5

Devtoberfest:

https://www.youtube.com/playlist?list=PL6RpkC85SLQDHz97qsNTNAE2jnUKj8X5d

- ABAP and SAP Cloud Application Programming Model
- Tooling
- 3. Integration
- MAD
 (Machine Learning, AI, and Data)
- Frontend

Public

Devtoberfest TechEd



SAP TechEd

Where ideas get real

The SAP TechEd event brings together developers, practitioners, enterprise architects, and global IT leaders. Joined by SAP experts and partners, they'll unite to explore innovations in app development tools, generative AI, clean core for cloud ERP, and much more.

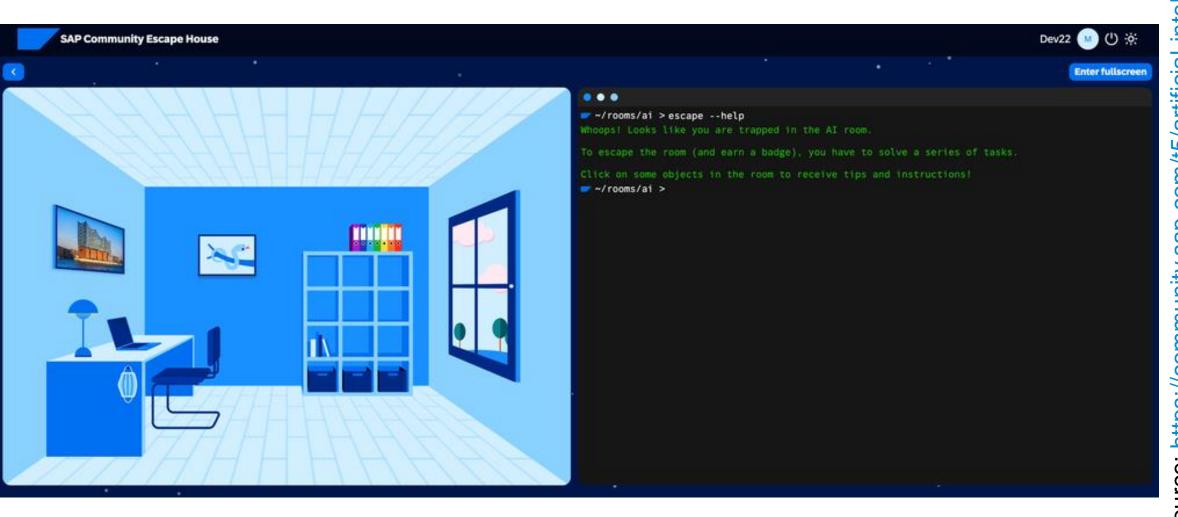


https://www.sap.com/events/teched/virtual.html:

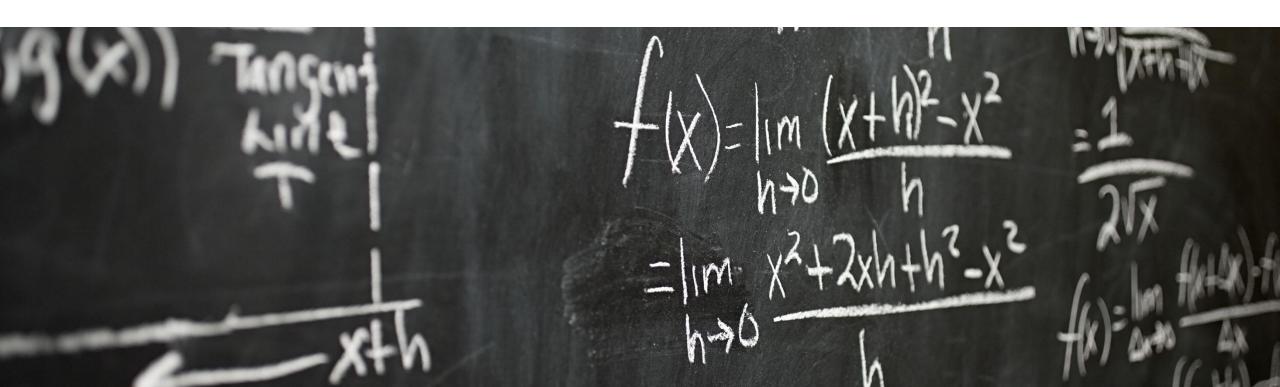
Berlin and Virtual: November 4-6, 2025

SAP Developer Challenge March - Community Escape House - AI 😈 🧼

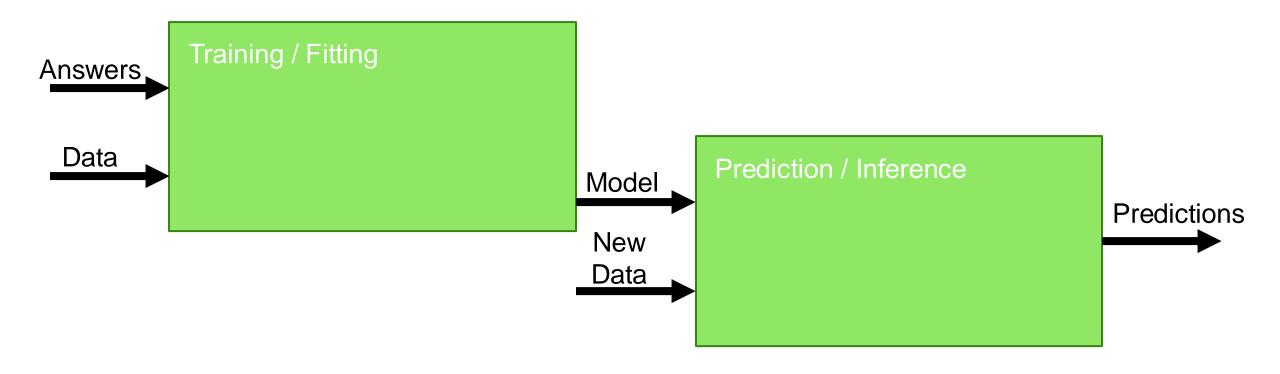




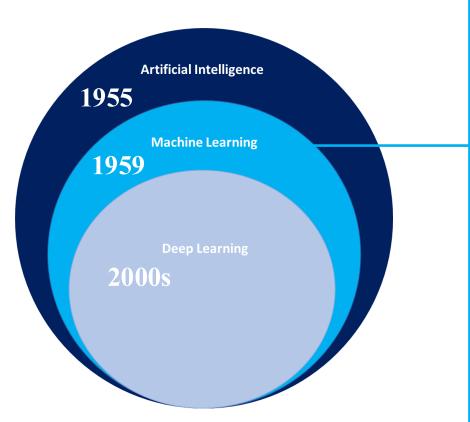
A bit of theory before we start

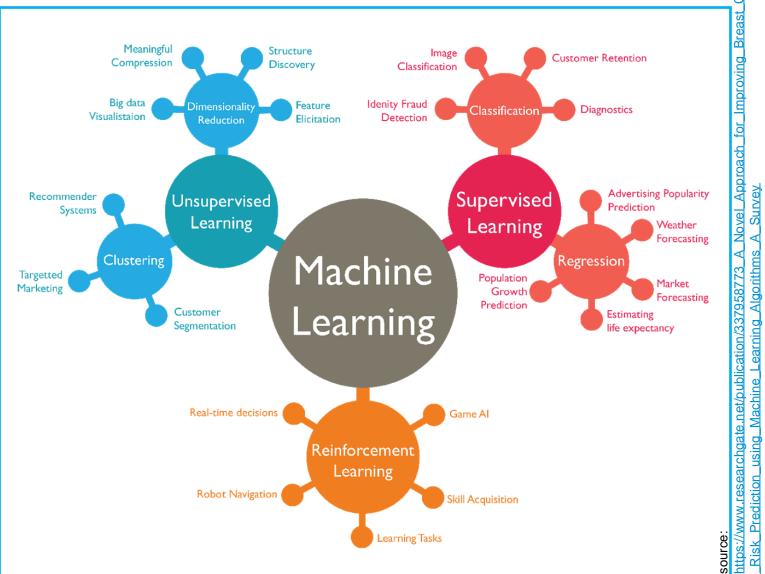


Machine Learning

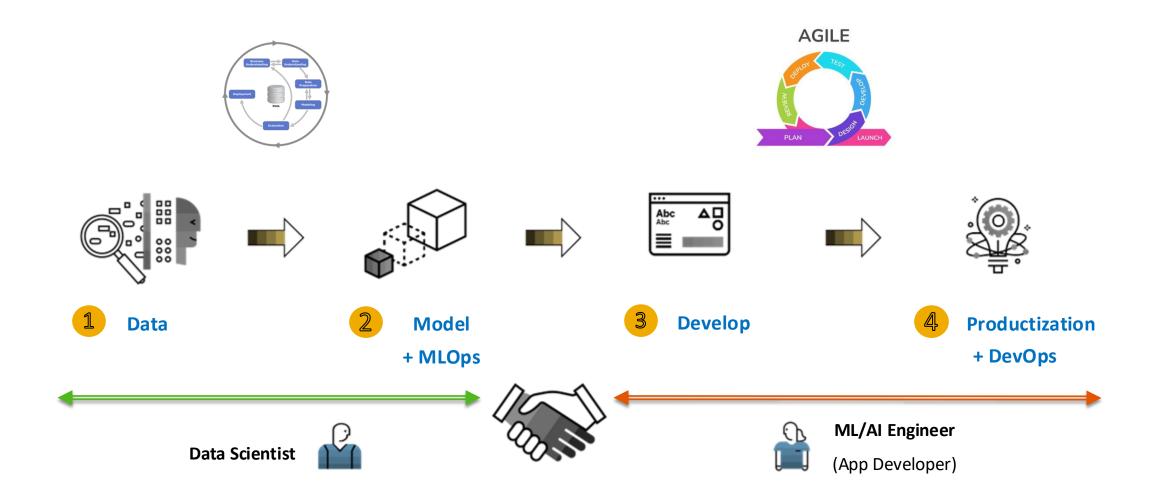


Machine Learning Terminology

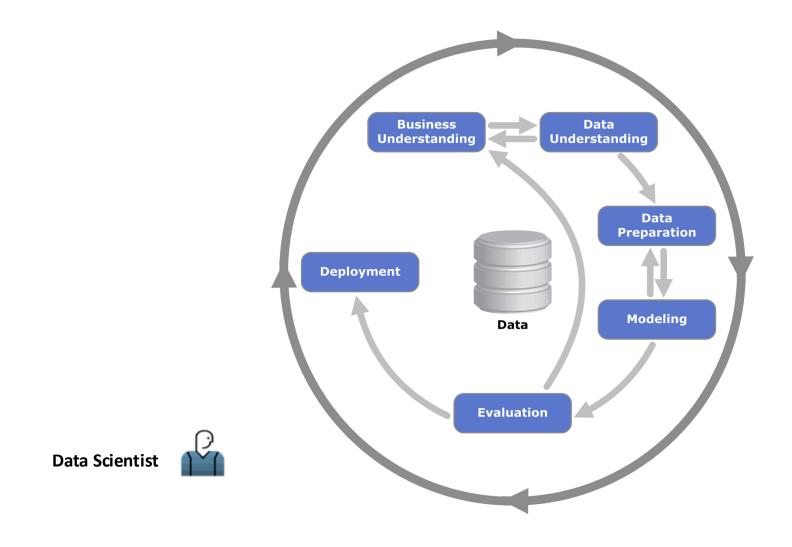




Development Approach | Building an Intelligent Data Application



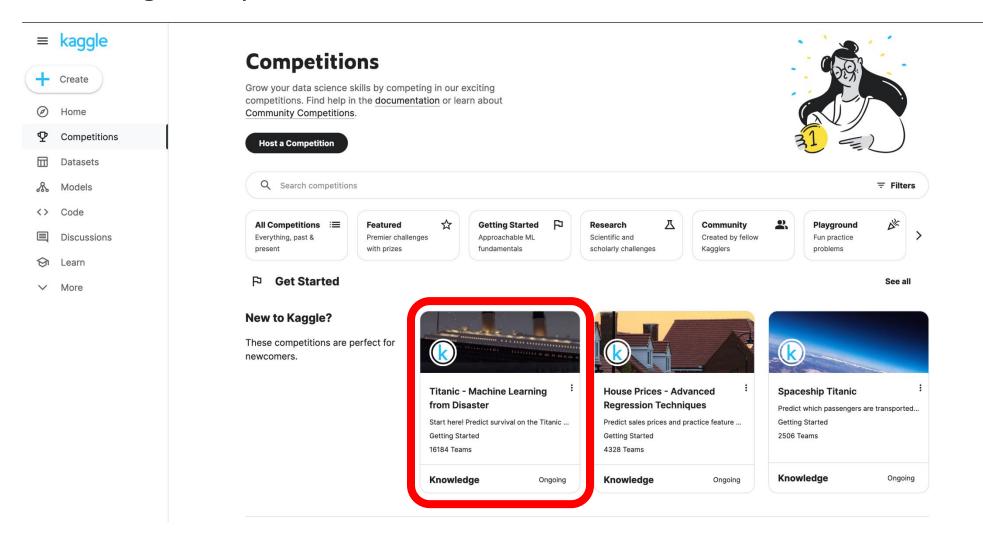
Development Approach | Training a Model



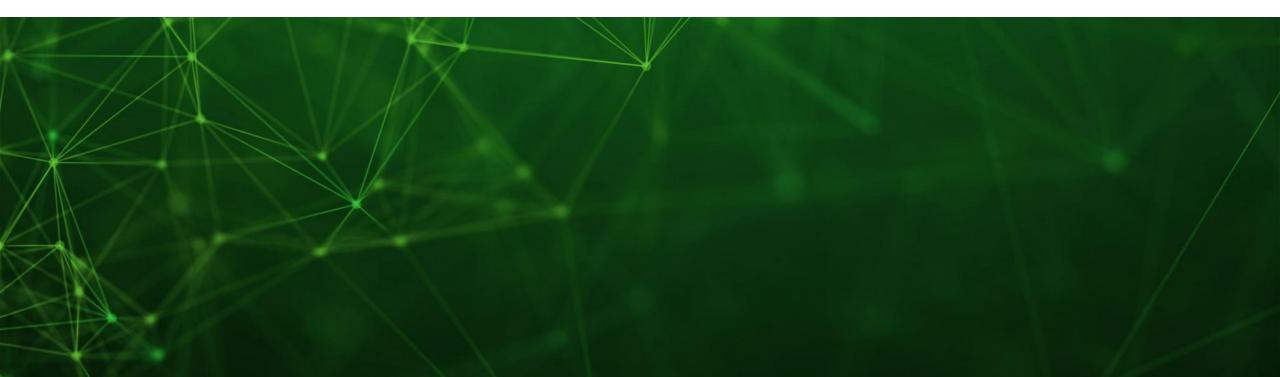
Let's get busy 🍪



Your ML Challenge today:



Exercises



Repo: https://github.com/SAP-samples/hana-ml-py-codejam/

(→ https://bit.ly/CJ_HANAML)

1. Pre-requisites:

https://github.com/SAP-samples/hana-ml-py-codejam/blob/main/prerequisites.md

2. Exercises:

https://github.com/SAP-samples/hana-ml-py-codejam#the-exercises

3. Worth watching:

https://github.com/SAP-samples/hana-ml-py-codejam#additional-learning-material

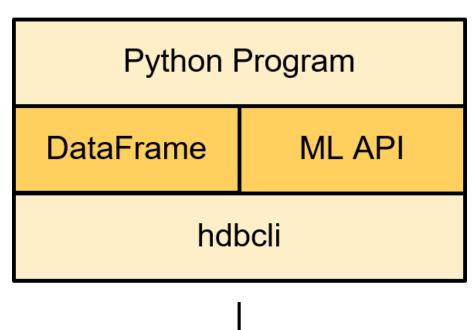
4. Try at home in your SAP BTP Trial:

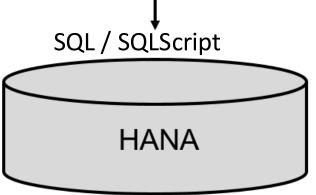
https://github.com/SAP-samples/sap-community-developer-challenge-eda-hana

Understand DataFrame(s)

Pandas DataFrame <-> HANA DataFrame

Data Scientist using Python

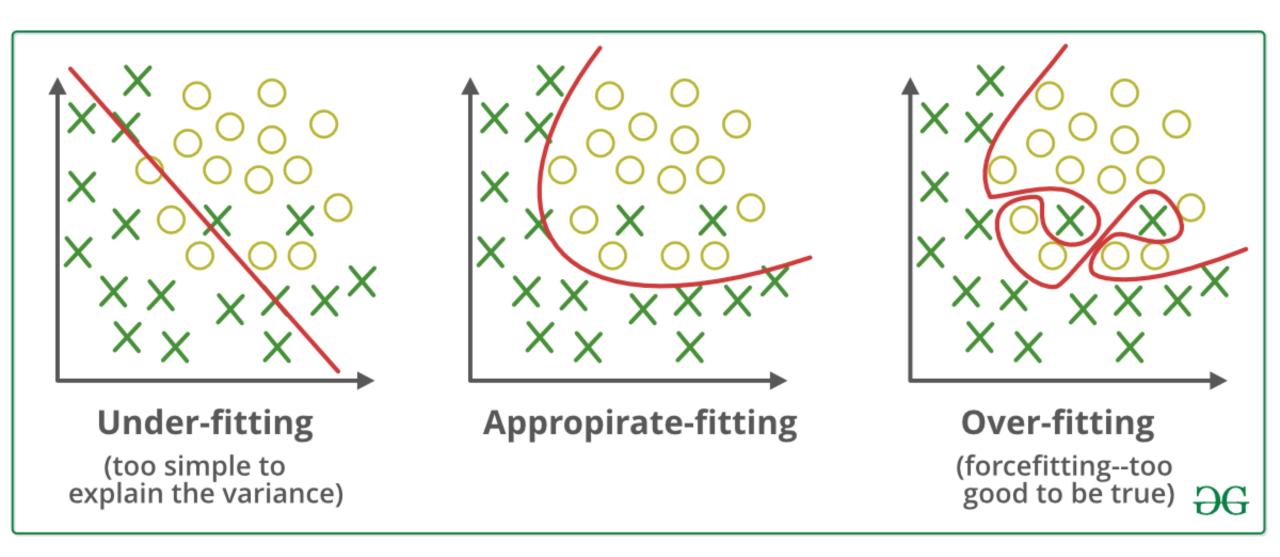




Train datasets in Supervised Machine Learning

	(Variables) Features		Label
			↓
	size	edge	color
Observations	small	dotted	green
	 big	striped	yellow
	medium	normal	green

Underfitting and Overfitting



Confusion matrix

Predicted class

P

N

In predictive analytics, a **table of confusion** (sometimes also called a **confusion matrix**) is a table that reports the number of true positives, false negatives, false positives, and true negatives.

True positives (TP)

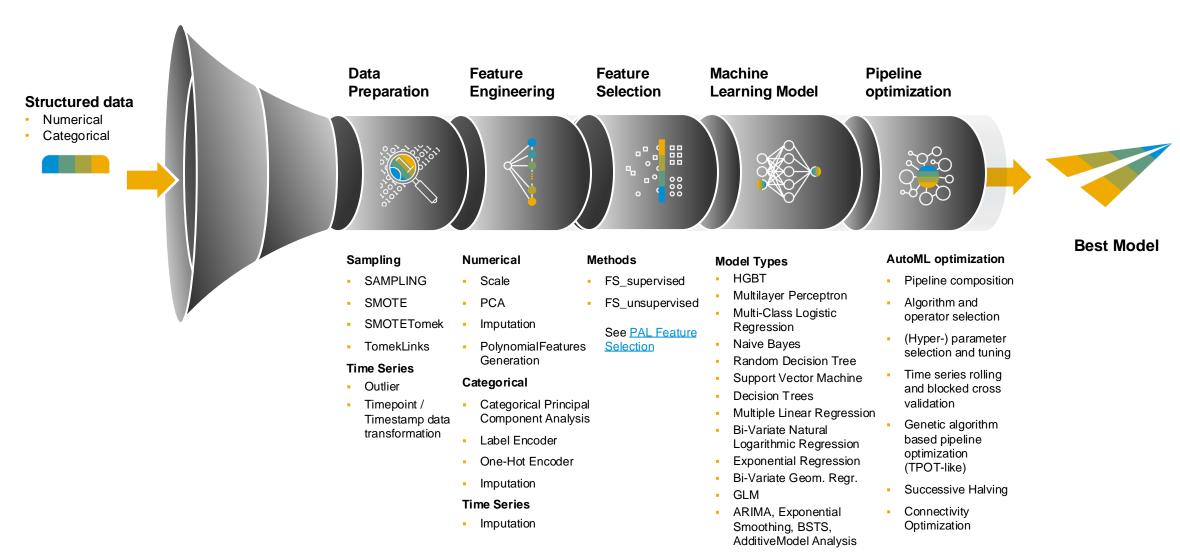
False negatives (FN)

Actual class

N

False positives (FP) True negatives (TN)

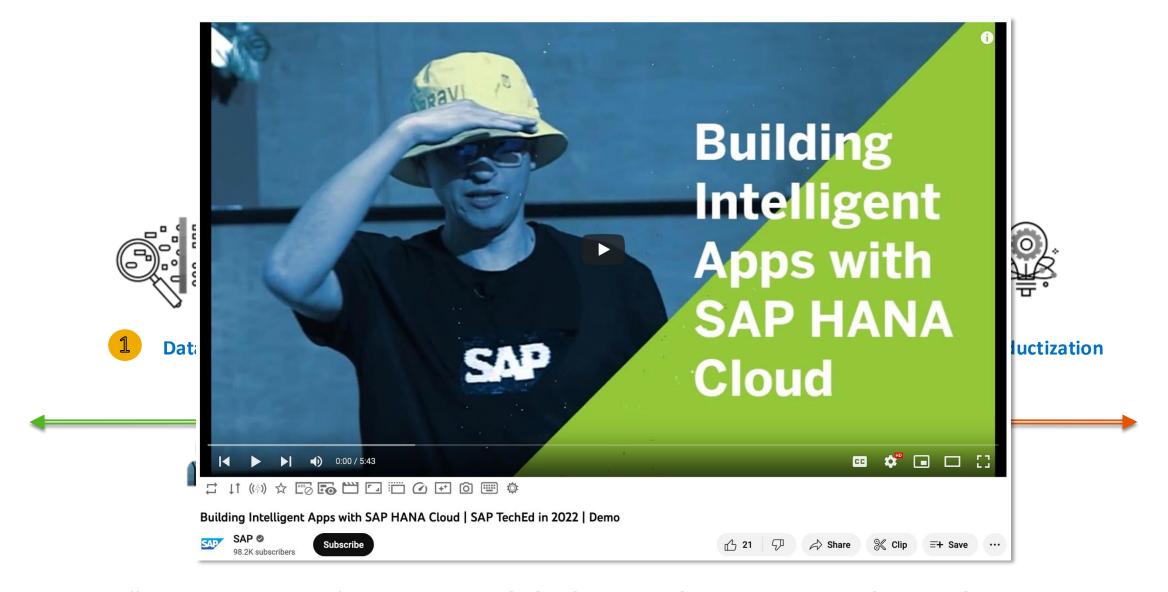
Predictive Analysis Library | Automated Machine Learning - Supported Operators



Additional content



Development Approach | Building an Intelligent Data Application (demo)

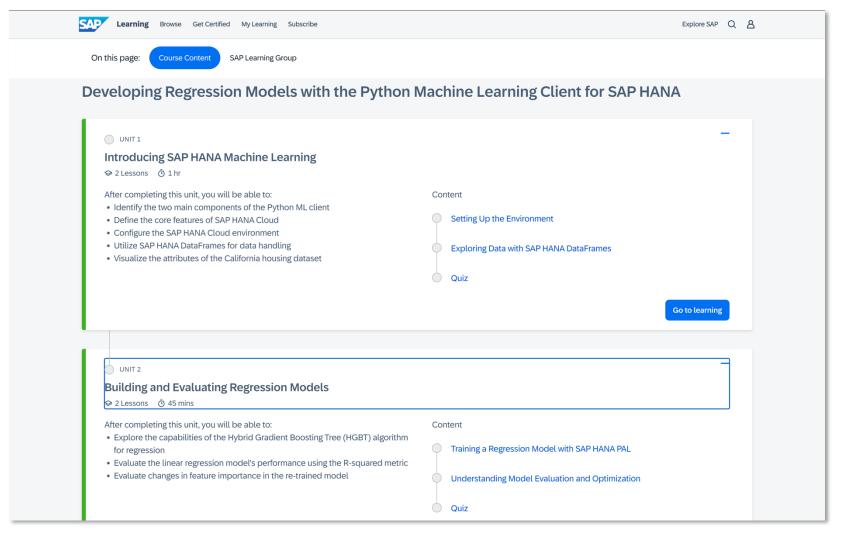


Embed the latest from SAP HANA's AI functions into your SAP BTP Application

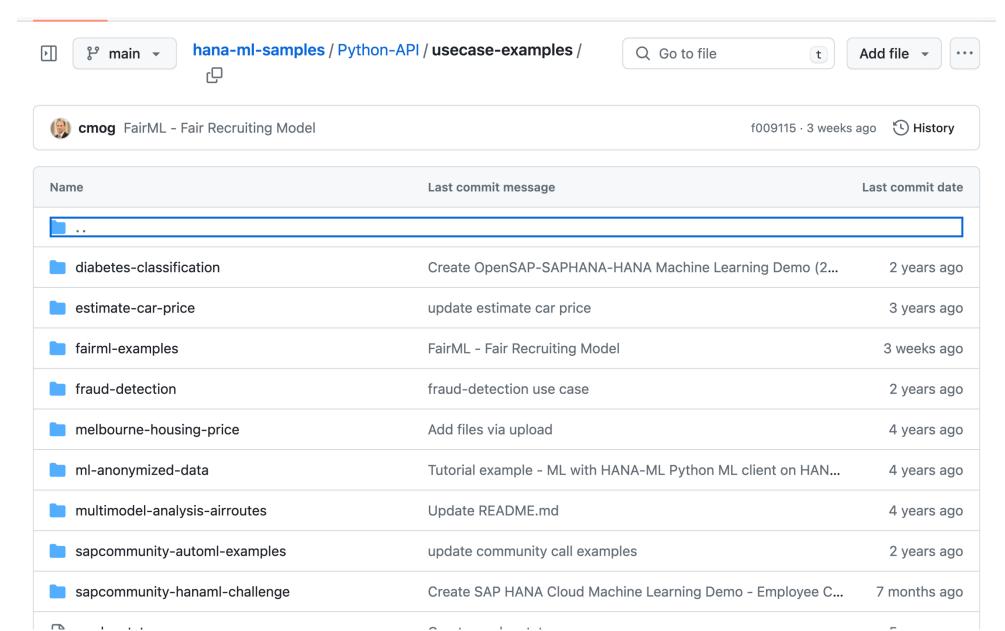
Devtoberfest MAD (Machine Learning, AI, and Data) **Embed the latest** from SAP HANA AI functions into your SAP BTP App Christoph Morgen, SAP

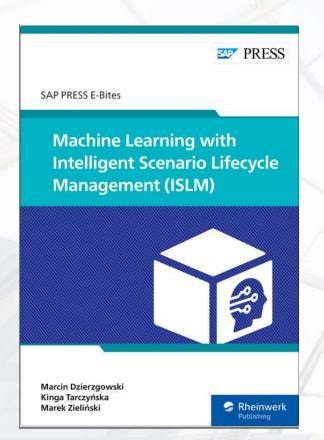


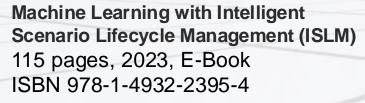
Learning journey: Developing Regression Models with the Python Machine Learning Client for SAP HANA



Code samples: https://github.com/SAP-samples/hana-ml-samples







www.sap-press.de/5668



Update your machine learning skills with Intelligent Scenario Lifecycle Management (ISLM)!

In this E-Bite, you'll develop a complete machine learning application for SAP S/4HANA using SAP HANA PAL, from data preparation and model building to training and prediction generation. You'll learn to use the ISLM framework to simplify machine learning implementation with standard apps for managing intelligent scenarios. Learn the ins and outs of machine learning with ISLM in this how-to guide!

- Learn to use the ISLM framework in SAP S/4HANA
- Develop an end-to-end machine learning scenario with SAP HANA PAL
- Prepare data, train models, and implement predictions with ISLM

SAP HANA Cloud – Free offering

SAP HANA Cloud Basic Trial

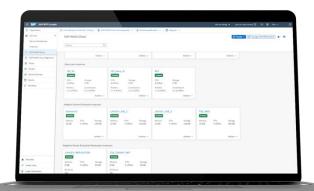
- 30-days own-schema shared-instance
- https://www.sap.com/products/technology-platform/hana/trial.html

SAP HANA Cloud (Advanced) Trial

- 3x30-days own-instance in SAP BTP Trial
- 16GB RAM, 1 vCPU
- https://developers.sap.com/tutorials/hana-trial-advanced-analytics.html

SAP HANA Cloud Free Tier

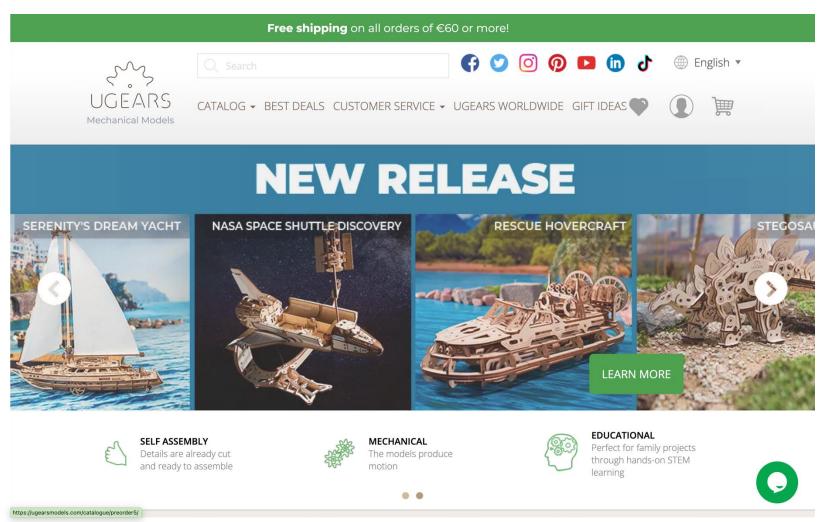
- 30 GB RAM, 2 vCPUs
- https://developers.sap.com/mission.hana-cloud-database-get-started.html



Please, support Ukrainian business 💙 💛 eg. Ugears Mechanical Models



https://ugearsmodels.com/





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Thank you // Дякую! // ধন্যবাদ

Contact information:

Witalij Rudnicki, SAP Developer Advocacy

