

# **KNIME Pros Learnathon**

Building Reliable and Reusable Components

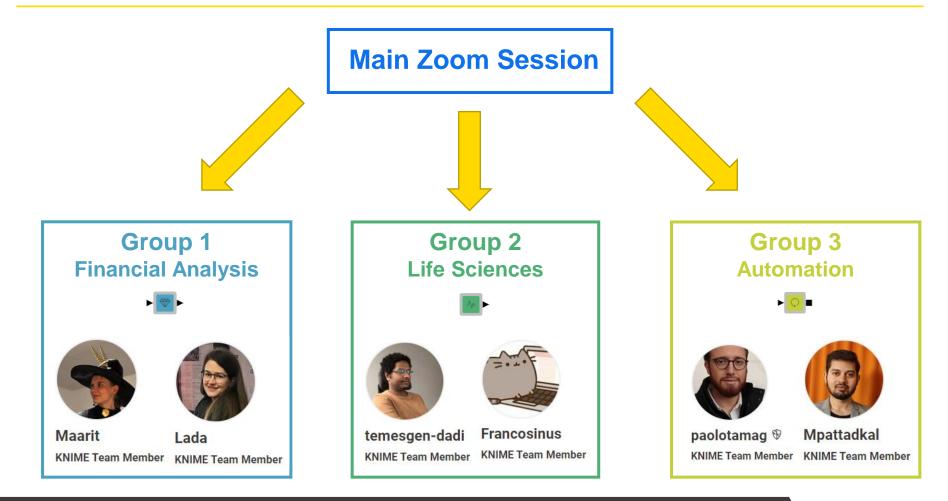
Group 3: Automation

**KNIME** Team



tinyurl.com/KNIME-Pros-Stuff

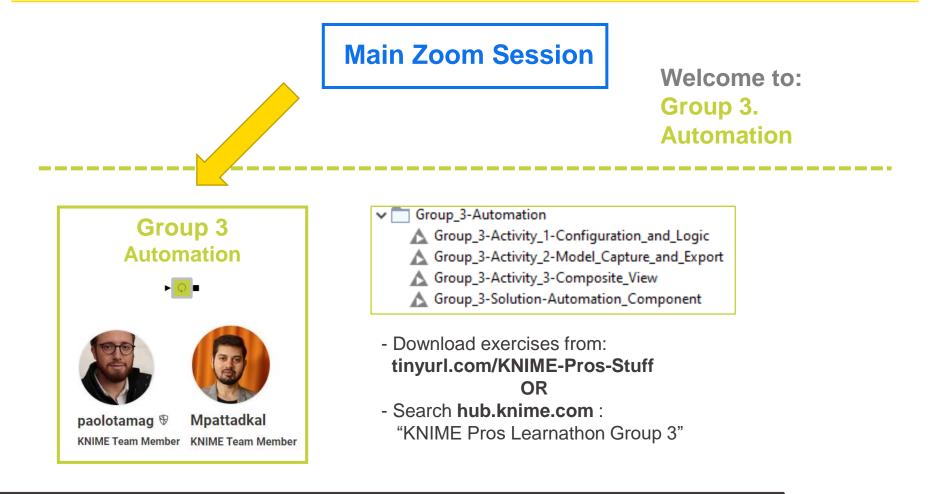
### See you soon in a Breakout Room!



#### tinyurl.com/KNIME-Pros-Stuff



### **Three Parallel Tracks via Zoom Breakout Rooms!**

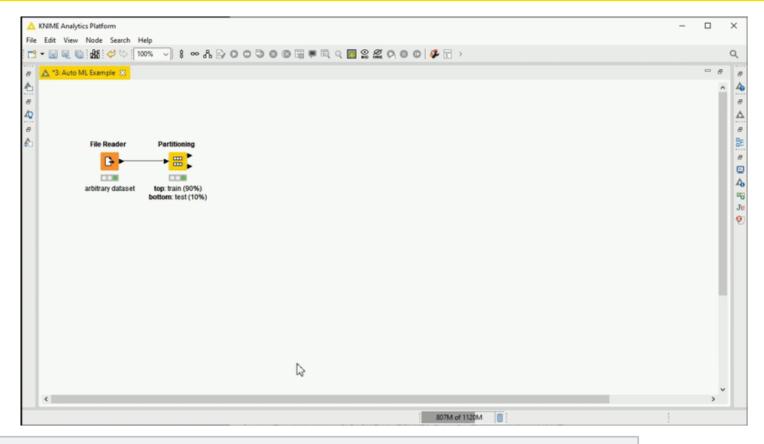




## **Automation Verified Components**

		Home >	00_Components > Automation
Parameter Optimization	Automation	4	
Dimensionality Reduction (LDA)		∑ <sub>e</sub> t <sub>e</sub>	Analyze Workflow Summary
	Available on		AutoML
Optimized K-Means (Silhouette Coefficient)	hub.knime.com	∑ <sub>e</sub> t <sub>e</sub>	Dimensionality Reduction (LDA)
► <mark>♀</mark>		Cat <sup>a</sup>	Embed Data Into Workflow
Analyze Workflow Summary		C.	Get Versions of Nodes in Workflow
	Automation		Ç
Embed Data Into Workflow	Automation Components help when a workflow has to be executed in a production environment in an automated fashion - from complex AutoML to		
Dimensionality	simple tricks to increase flexibility and traceability of your workflow.		
Reduction (LDA)	View on KNIME Hub		

### **AutoML Component - Usage**

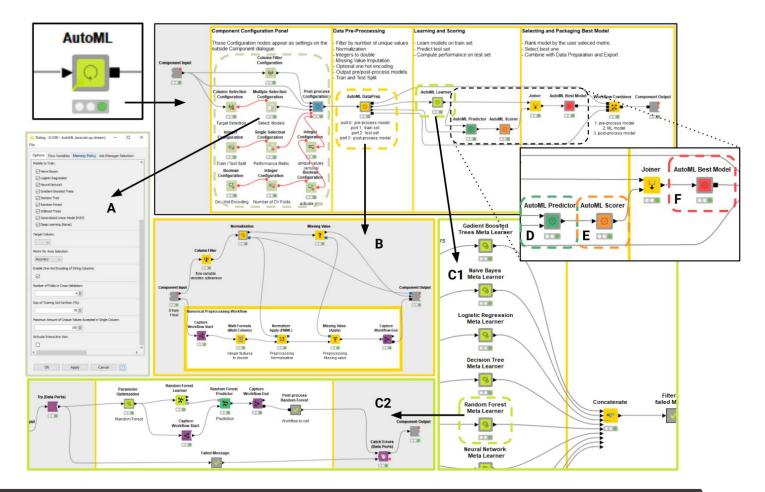


#### KNIME Blog – Automated Machine Learning – August 31, 2020

#### tinyurl.com/KNIME-Pros-Stuff

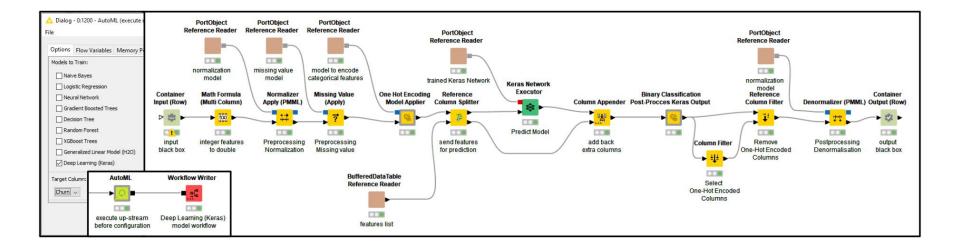


### **AutoML Component – Inside Workflow**





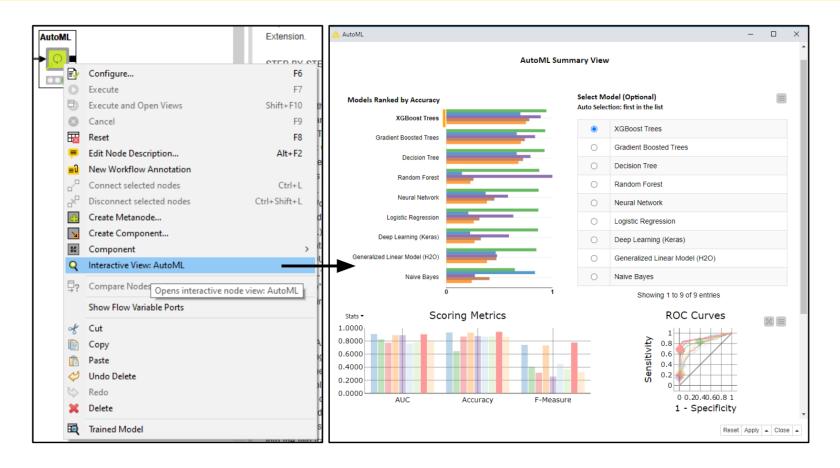
### **AutoML Component – Output Workflow**



© 2020 KNIME AG. All rights reserved



# **AutoML Component – Composite View**



© 2020 KNIME AG. All rights reserved

# Today Exercise: AutoML (Regression) Component

#### KNIME Pros Learnathon: Building Reliable and Reusable Components

#### **Full Solution :**

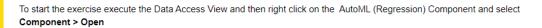
- Activity 1 : Configuration and Logic
- Activity 2 : Model Capture and Export
- Activity 3 : Composite View

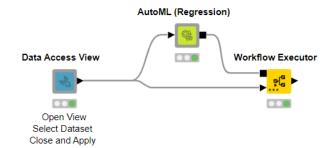
#### **Goal of the Exercise**

Double click the adjoining metanode "Goal of the exercise" to read the full introduction to this exercise

#### Solution Exercise

© 2020 KNIME AG. All rights reserved





- Activity 1: Configuration and Logic
- Activity 2: Model Capture and Export
- Activity 3: Composite View

#### 

Goal of the

Exercise

- A Group\_3-Activity\_1-Configuration\_and\_Logic
- Group\_3-Activity\_2-Model\_Capture\_and\_Export
- A Group\_3-Activity\_3-Composite\_View
- A Group\_3-Solution-Automation\_Component

#### tinyurl.com/KNIME-Pros-Stuff

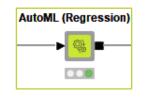
# Today's Challenge: AutoML (Regression) Component

 Download Exercises from link – and import .knar file to your KNIME Analytics Platform LOCAL Workspace!

OR

Download from KNIME Hub!

hub.knime.com/knime/spaces/Education/latest/Learnathons or Search for "KNIME Pros Learnathon - Group 3"



- Group\_3-Automation
- ▲ Group\_3-Activity\_1-Configuration\_and\_Logic
- A Group\_3-Activity\_2-Model\_Capture\_and\_Export
- A Group\_3-Activity\_3-Composite\_View
- A Group\_3-Solution-Automation\_Component

