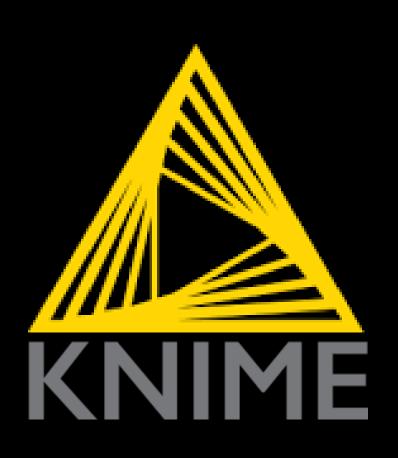
# Data Analysis



# Exploratory Data Analysis (EDA) Knime



Edgar Rios Linares

#### Problem

#### Problem description



#### Context

The original dataset contains 1000 records with 20 categorical attributes prepared by Prof. Hofmann.

In this dataset, each record represents a person taking out a loan from a bank.

Each person is classified as good or bad credit risk based on the set of attributes.

Link to the original dataset at

**UCI Machine Learning** 

#### Content

The selected attributes:

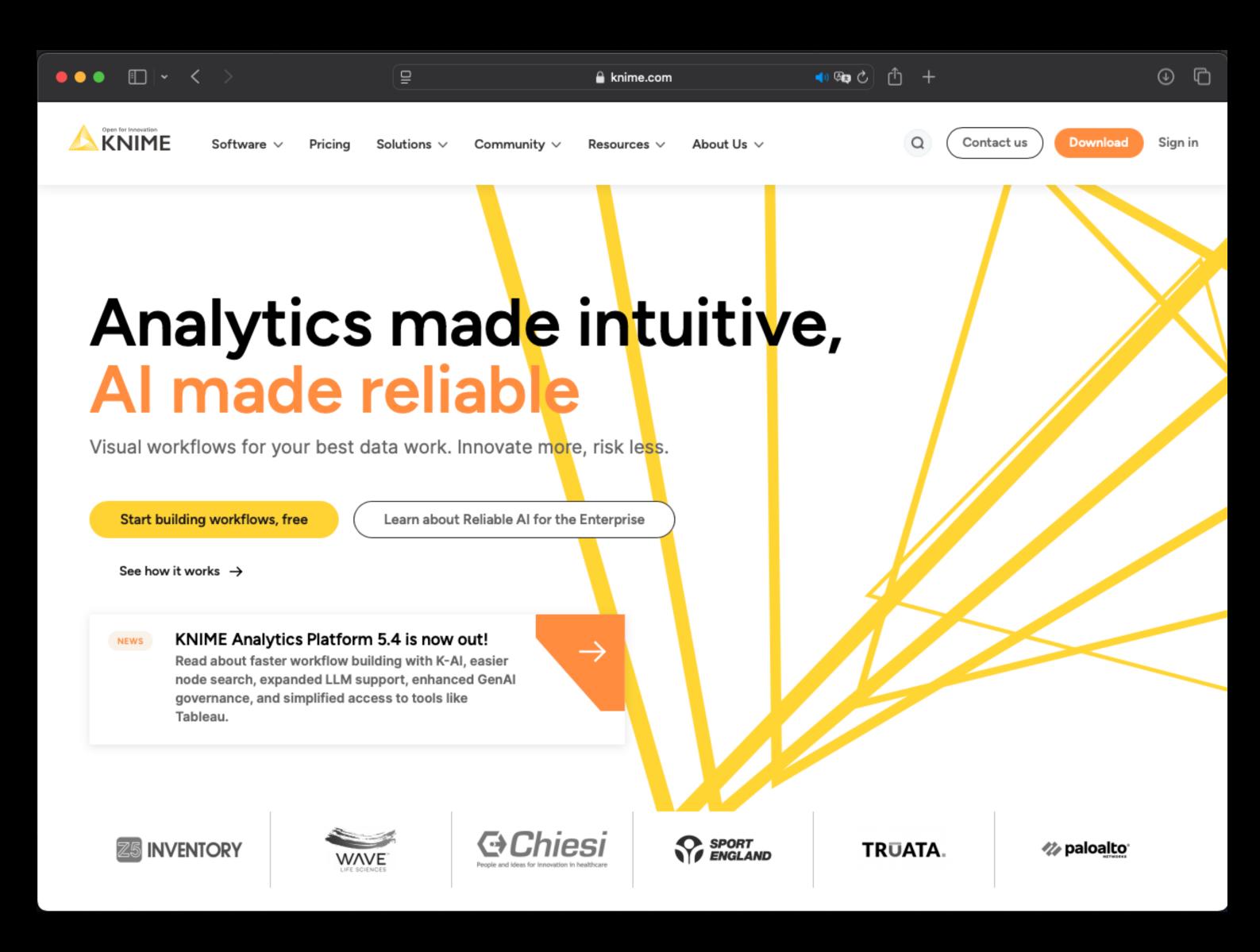
- Age (numeric)
- Sex (text: male, female)
- Job (numeric: 0 unskilled and non-resident, 1 unskilled and resident, 2 skilled, 3 highly skilled)
- Housing (text: own, rent, or free)
- Saving accounts (text little, moderate, quite rich, rich)
- Checking account (numeric, in DM Deutsch Mark)
- Credit amount (numeric, in DM)
- Duration (numeric, in month)
- Purpose(text: car, furniture/equipment, radio/TV, domestic appliances, repairs, education, business, vacation/others
- Risk (Value target Good or Bad Risk)

#### Objective

Train a model to predict from new data whether a person applying for a loan represents a good or bad risk

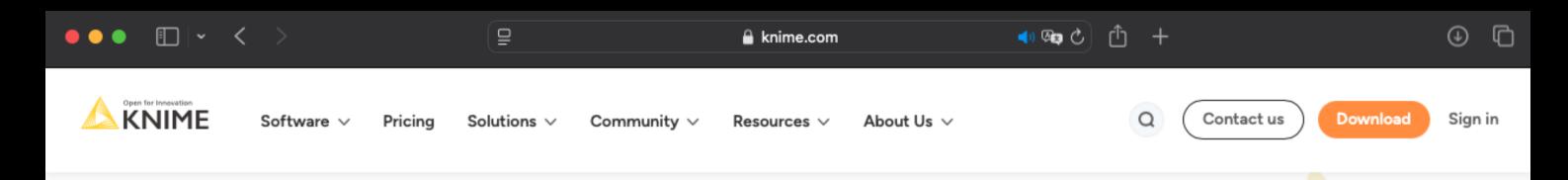
#### Download

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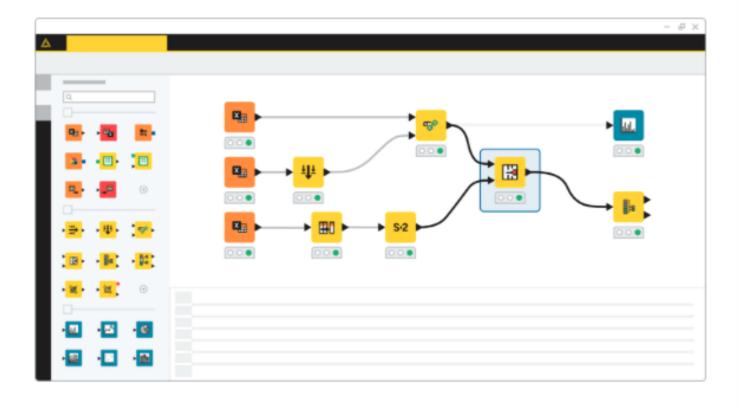


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#### Download KNIME Analytics Platform



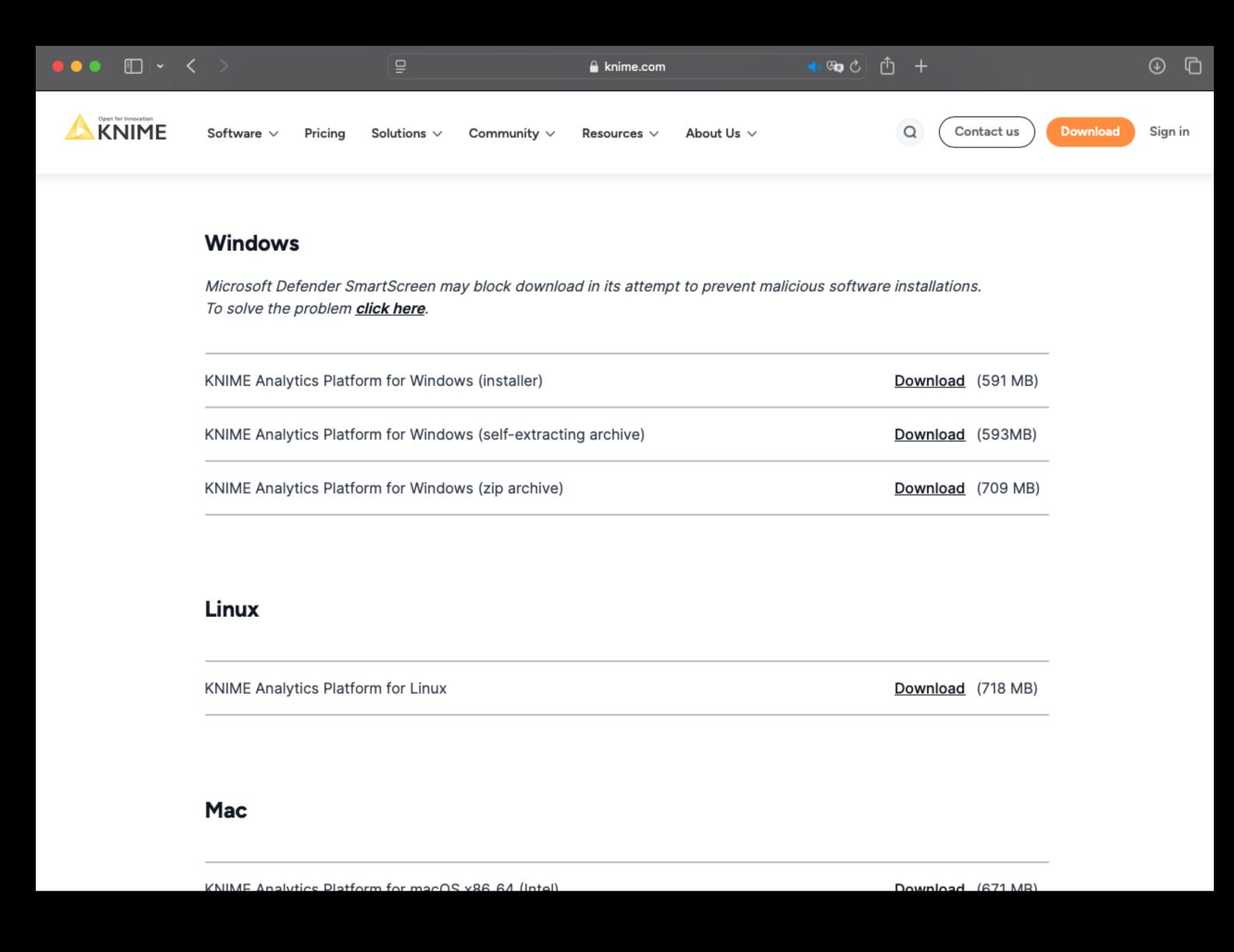
KNIME Analytics Platform is a free and open source lowcode/no-code software that allows anyone, irrespective of experience levels, to make sense of data.

Download today, and use it free forever.

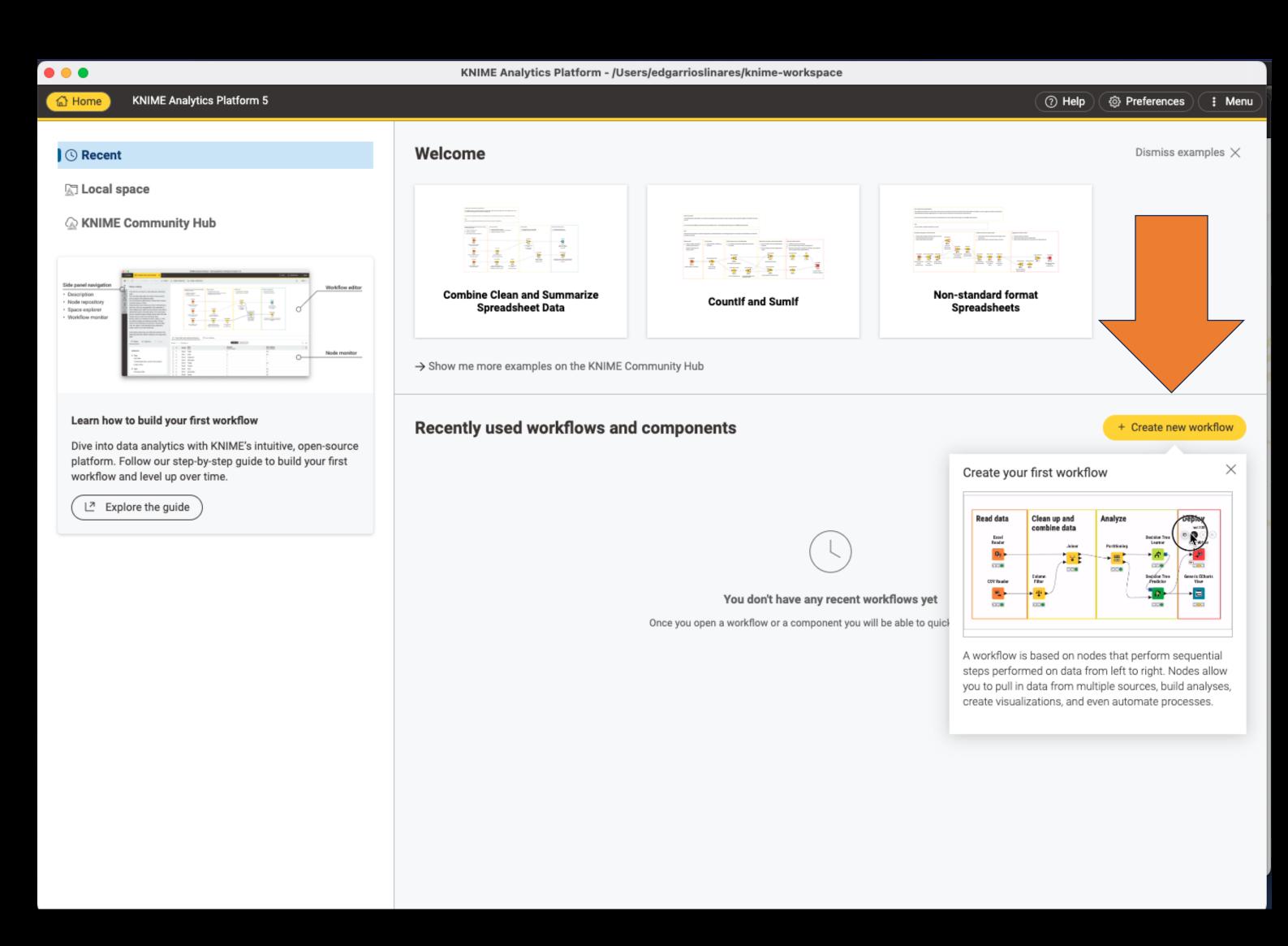
#### Registration is not required. Leaving your information\* will sign you up for our newsletter and other relevant updates Email Company name First name Last Name Country/Region Role Please Select Please Select Would you mind telling us how you heard about KNIME? Department Please Select Please Select I would also like to receive three getting started emails. I have read and accept the terms and conditions to download KNIME Analytics Platform (open source license) and I accept the Privacy Policy. Checking this box is \*KNIME uses the information you provide to share relevant content and product updates and to better understand our community. You may unsubscribe from these emails at any time. Download

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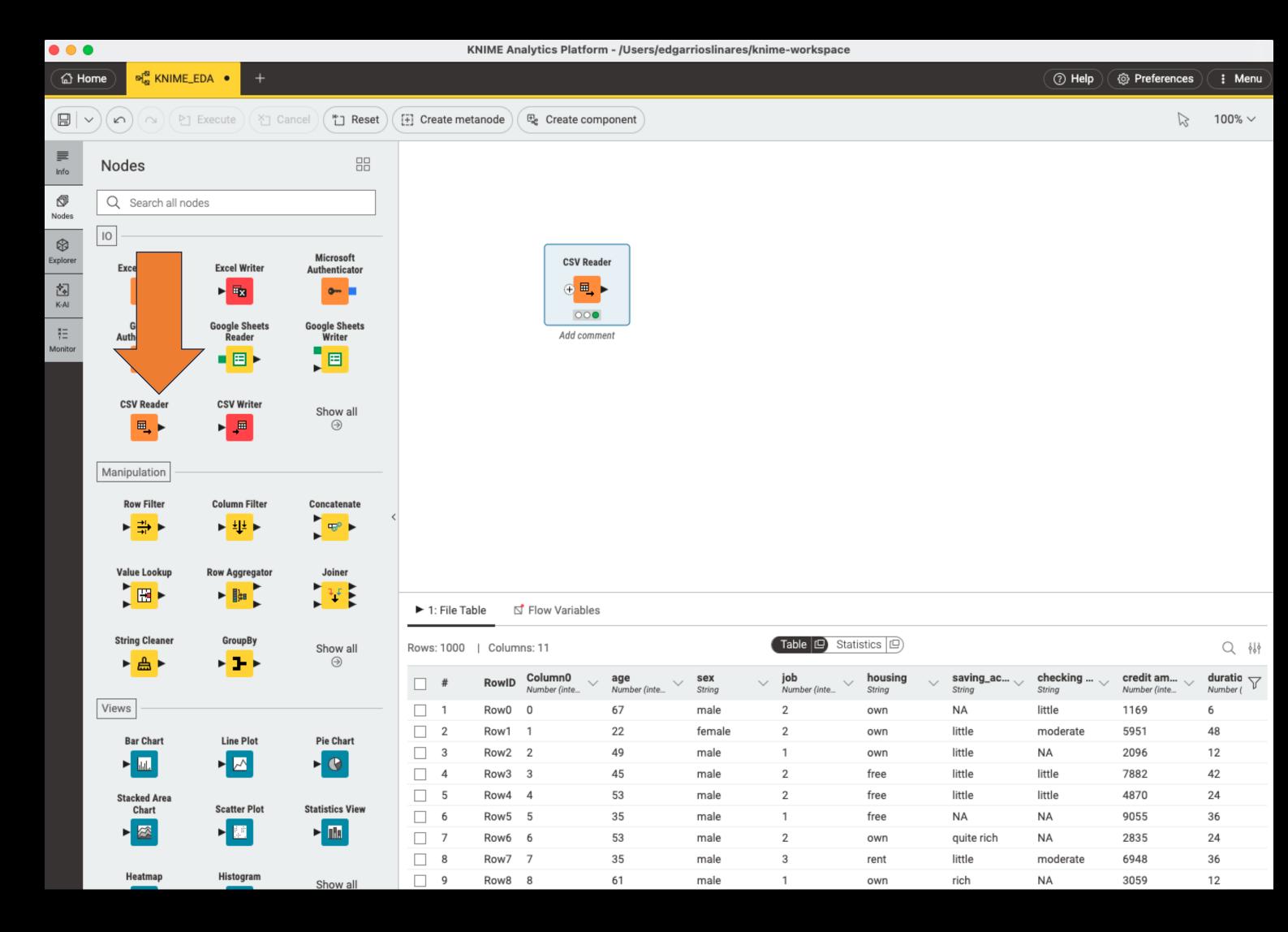
#### Select your SO, install & launch app



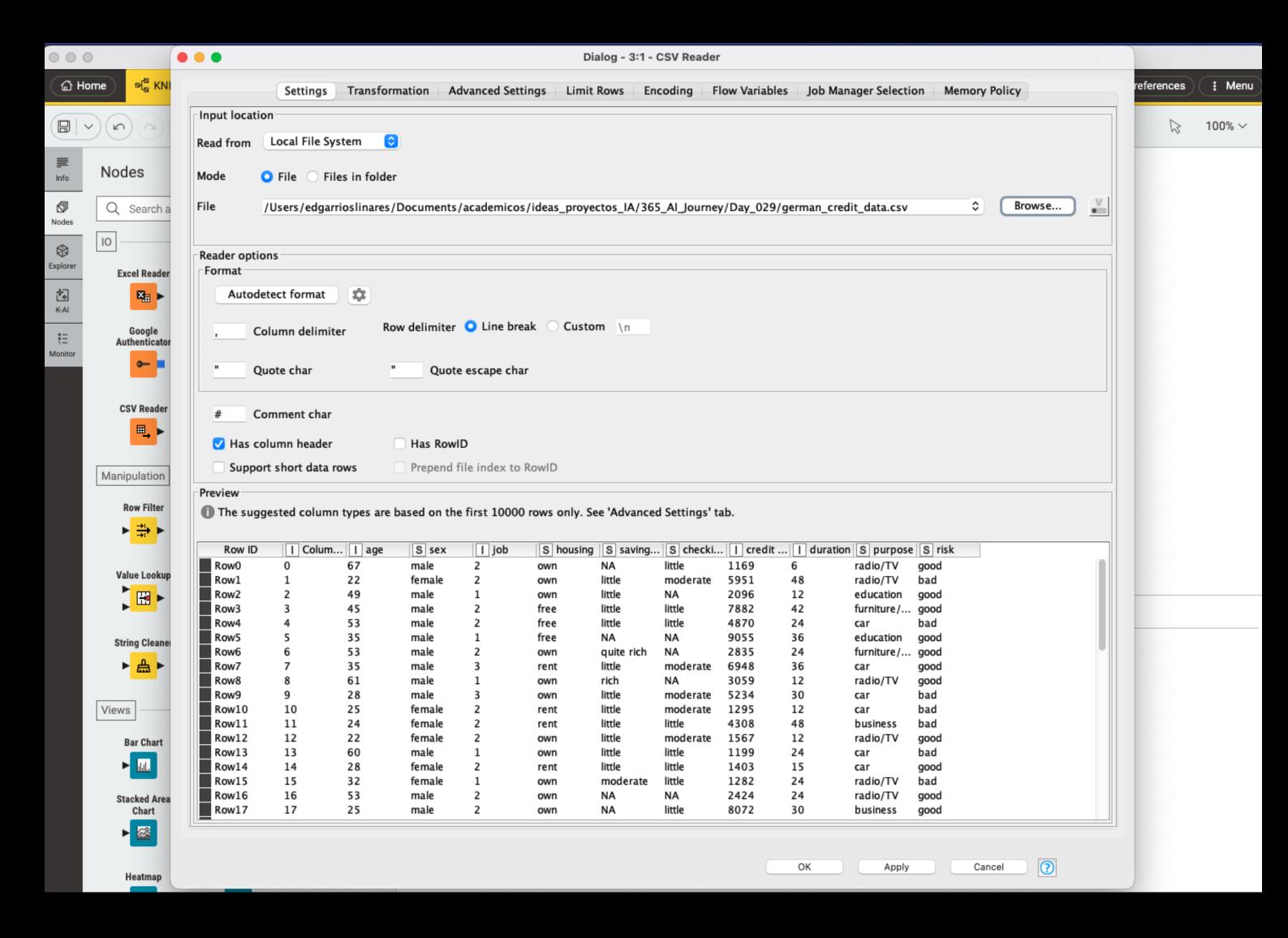
## New Project



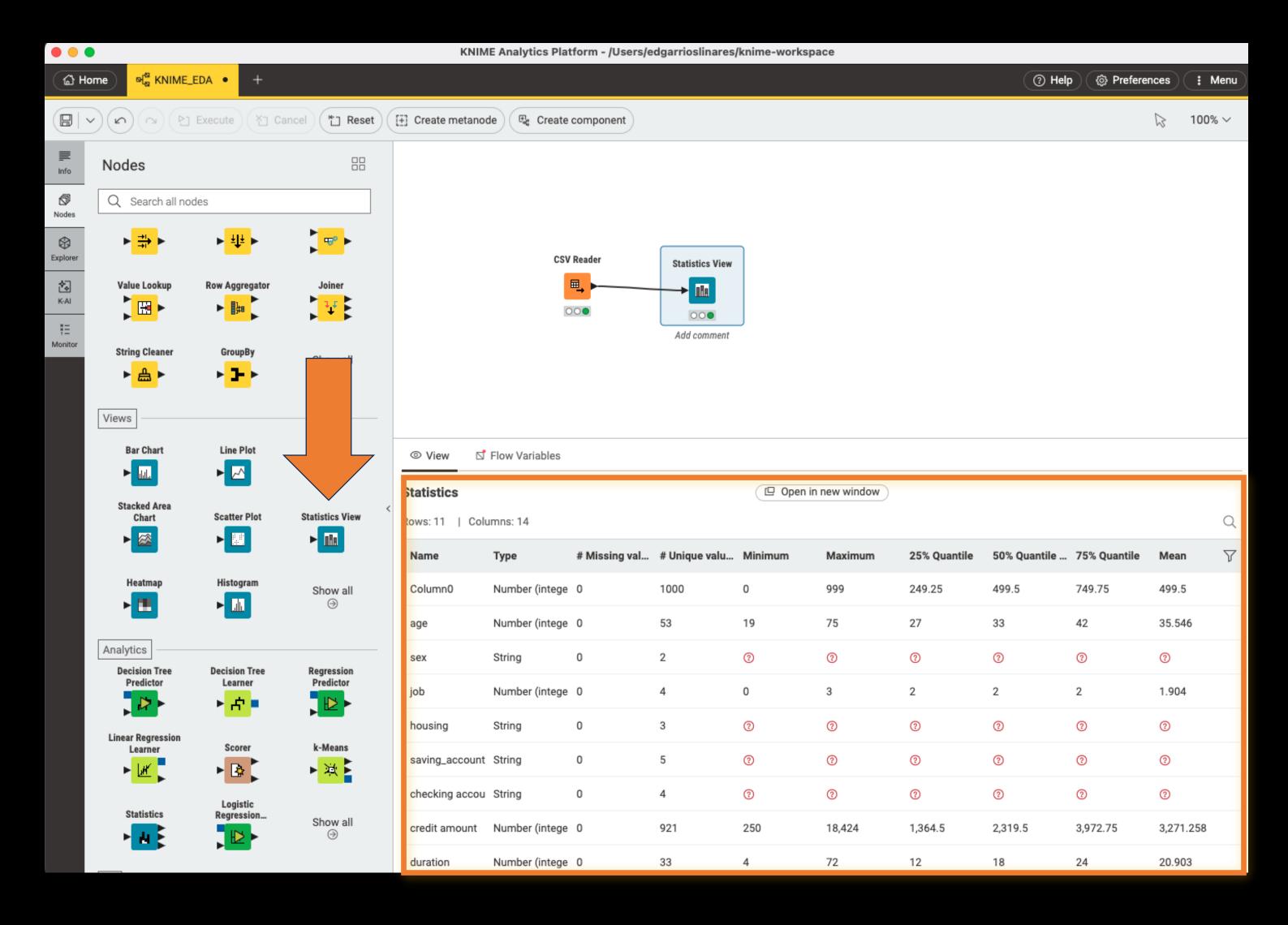
#### Load File



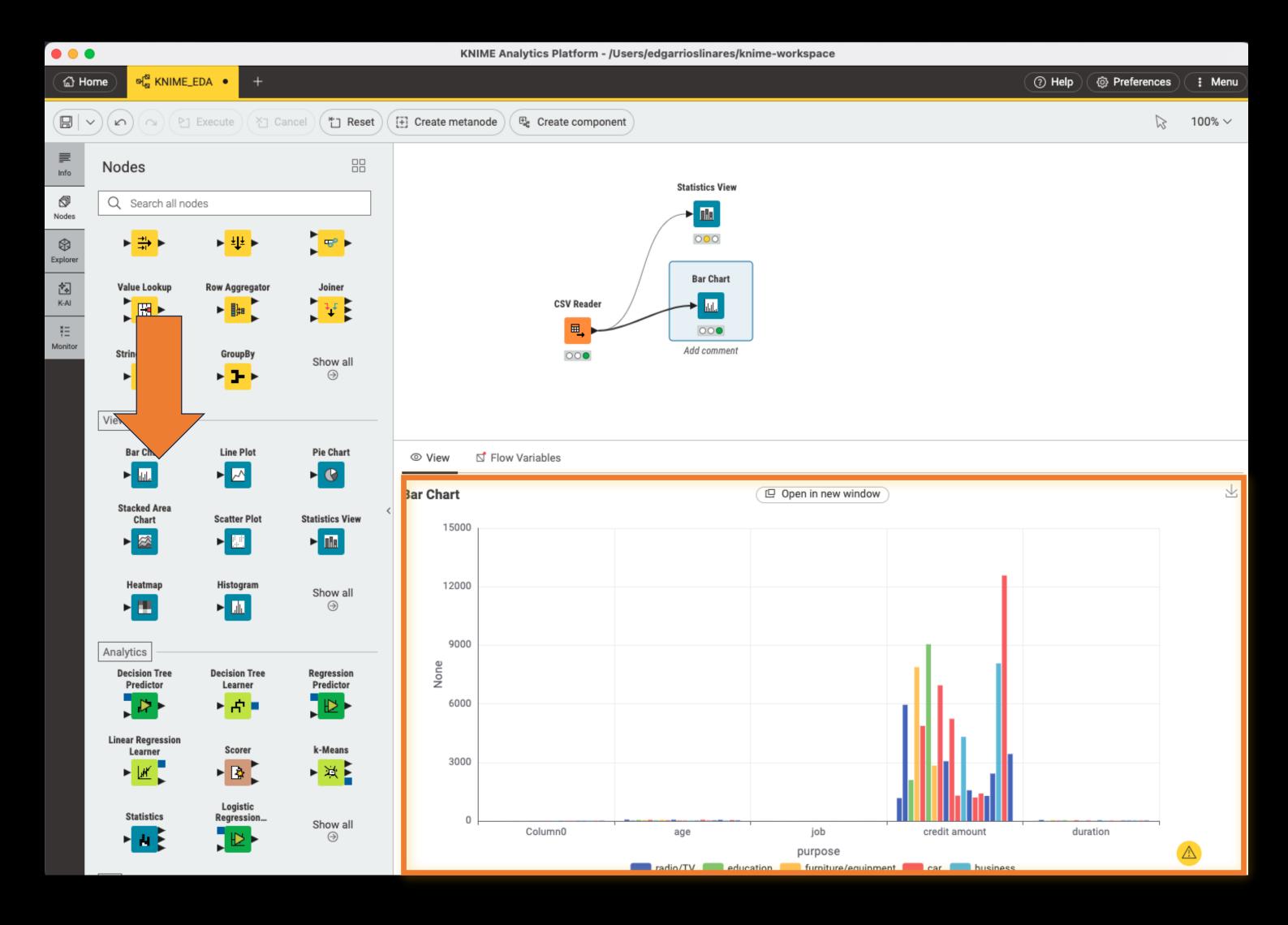
#### Load File



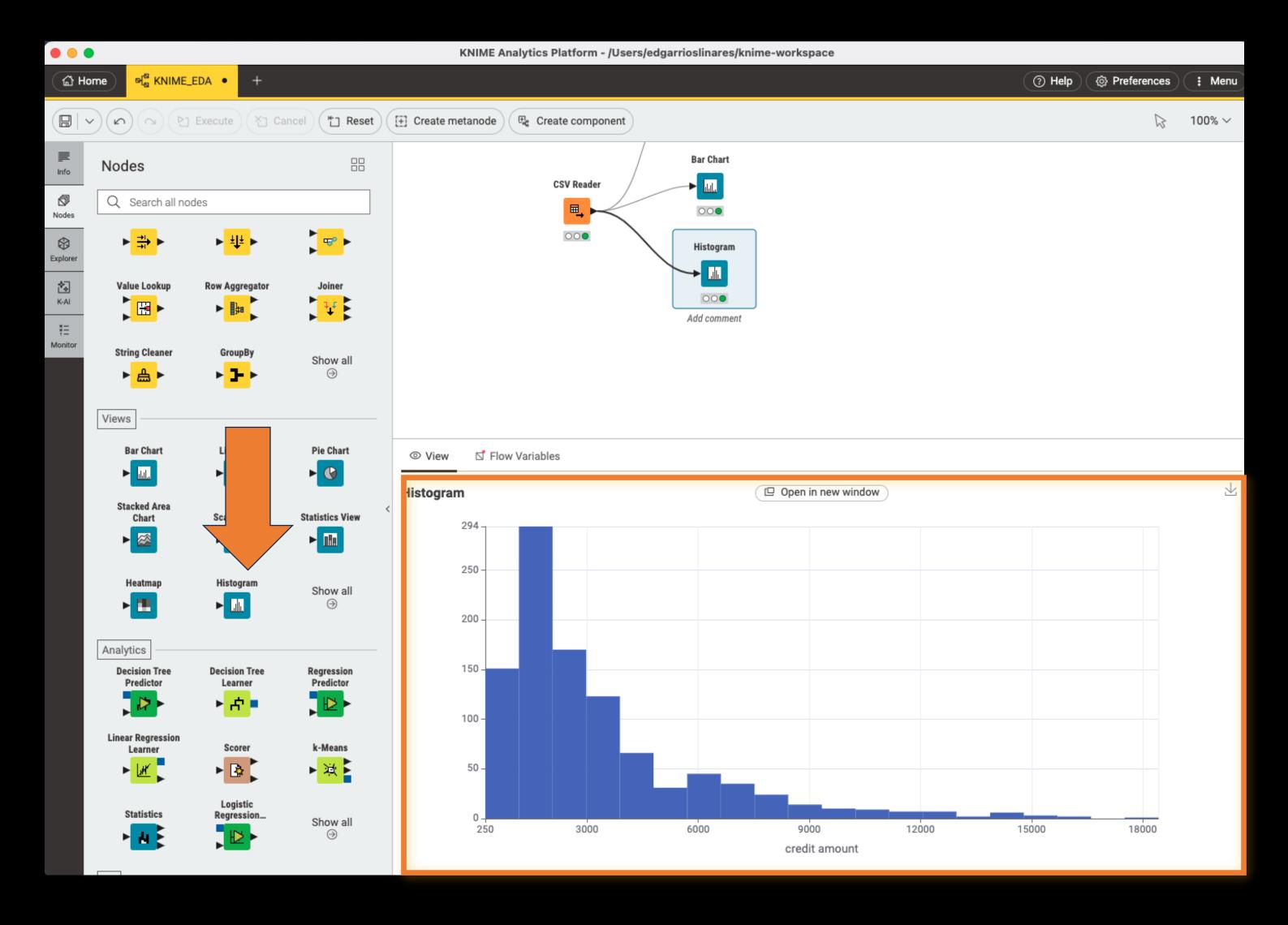
#### View Statistics



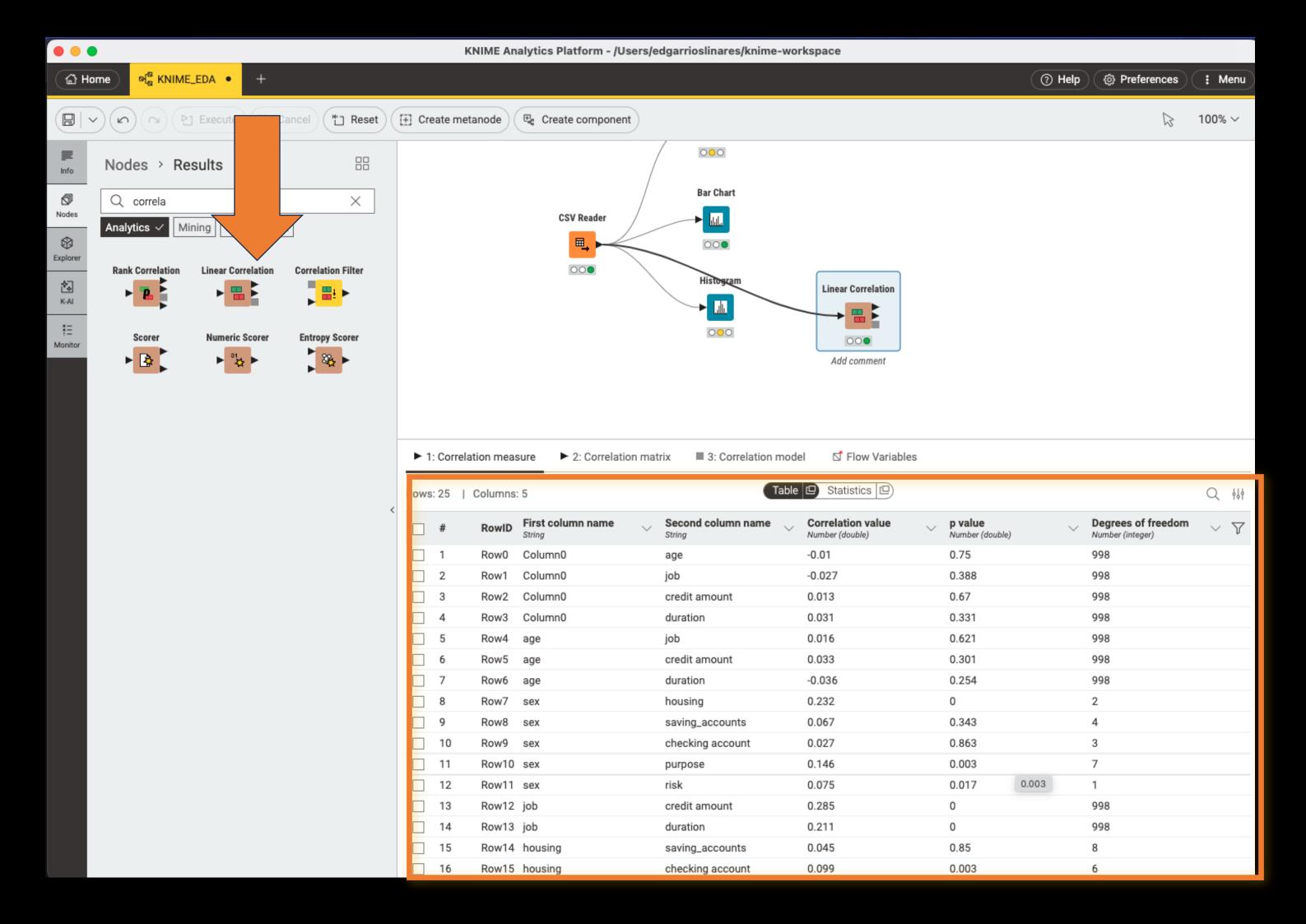
### View Bar Chart



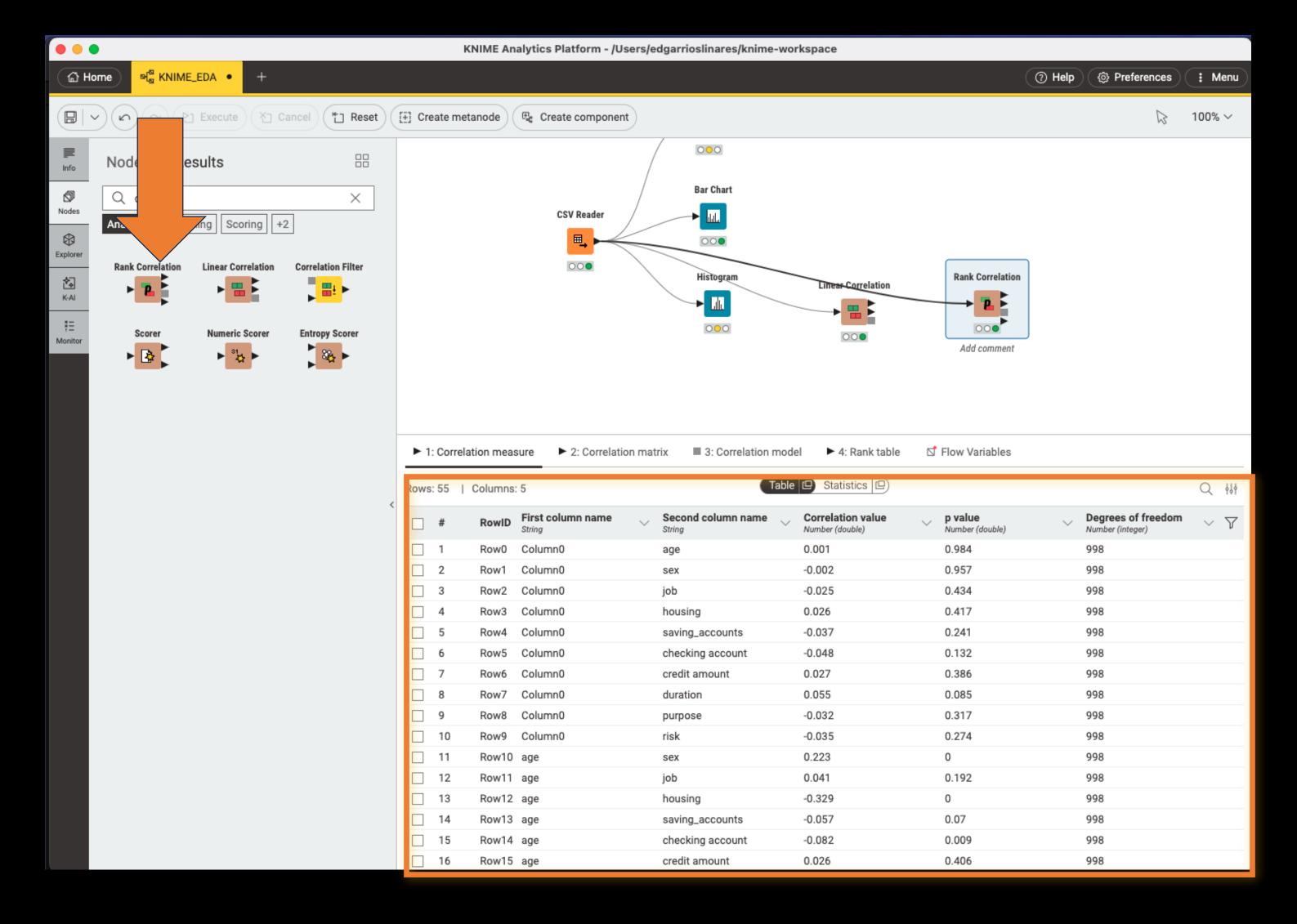
## View Histogram



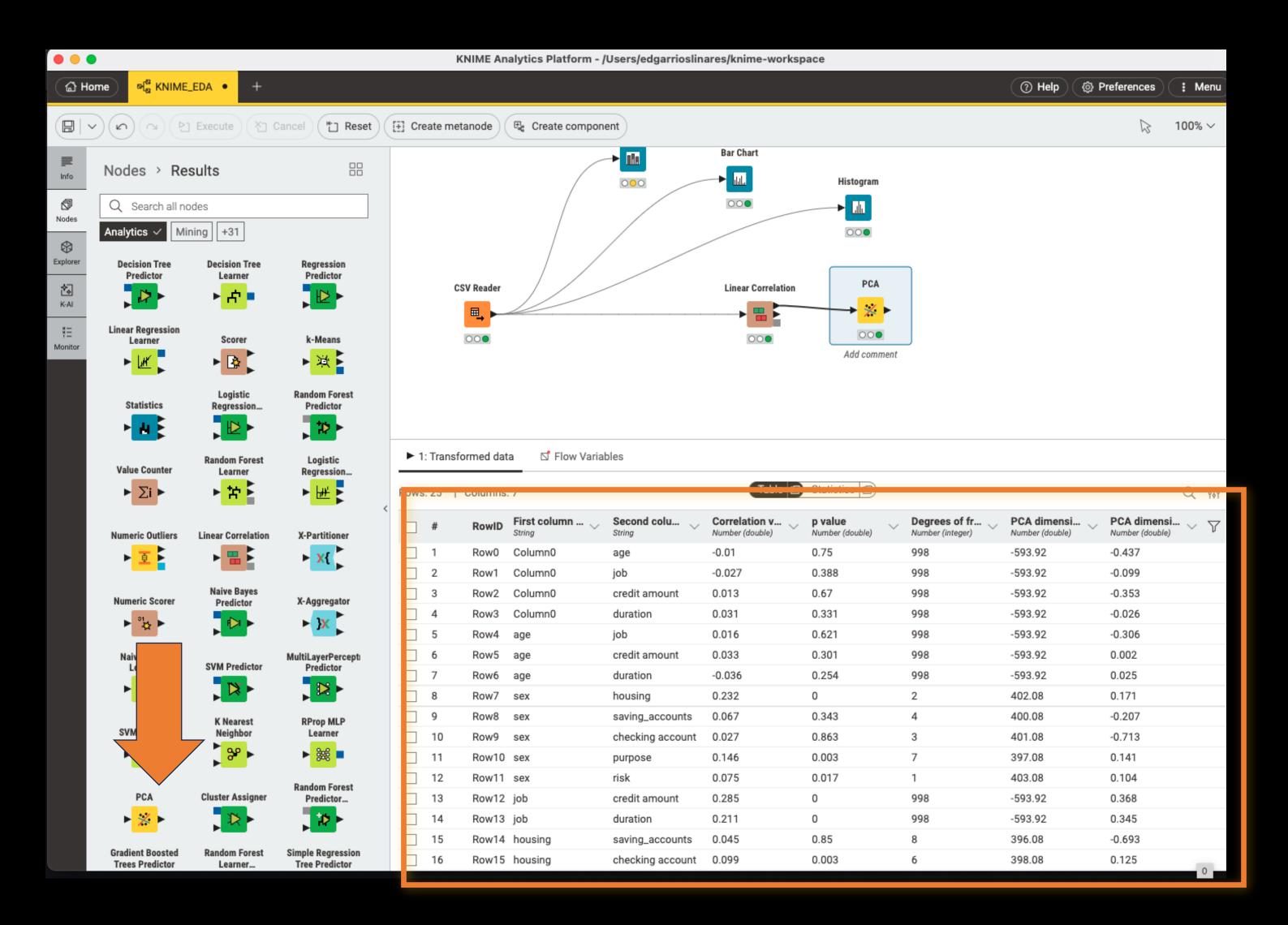
#### View Linear Correlation



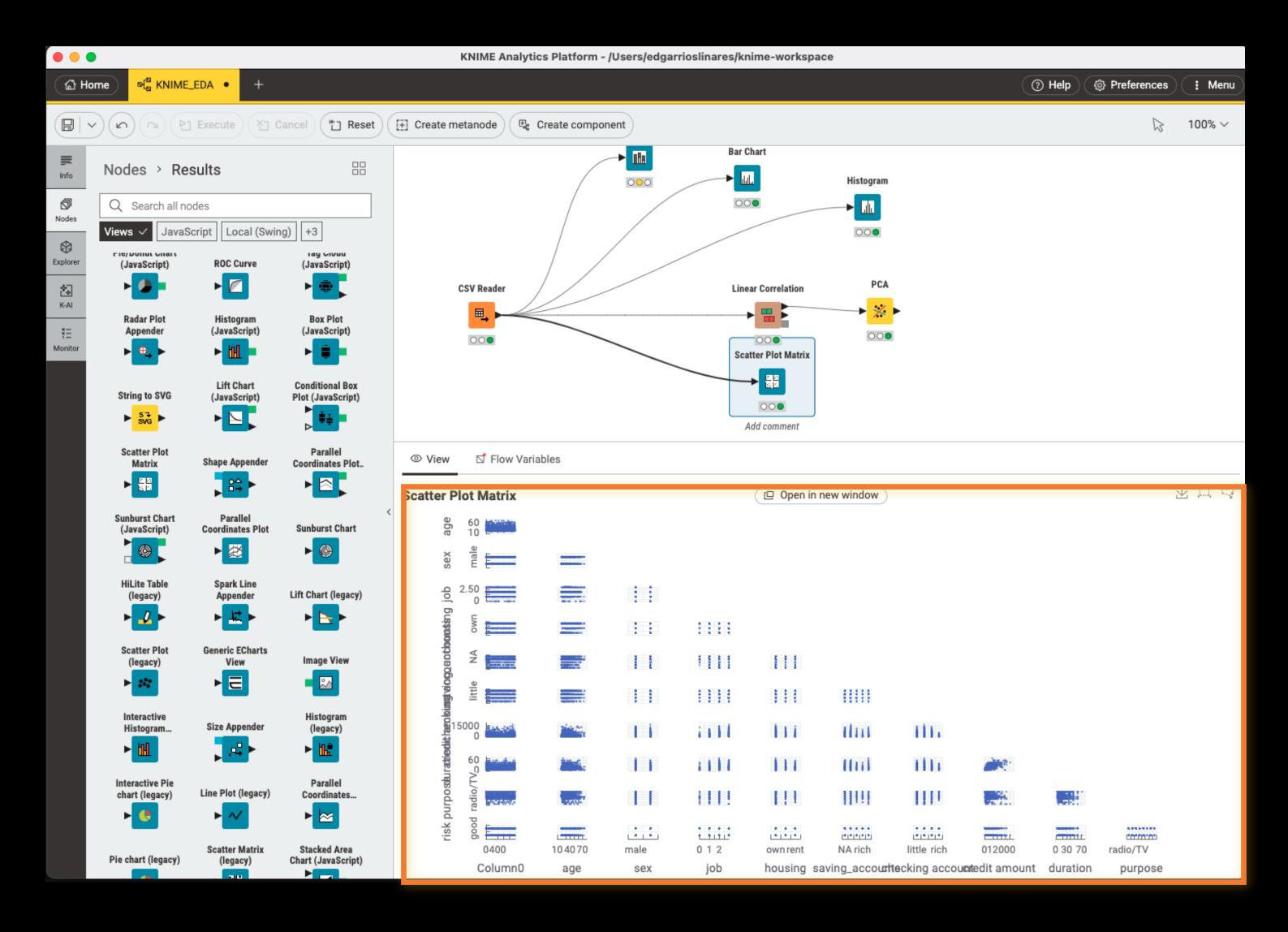
#### View Rank Correlation



## Make PCA

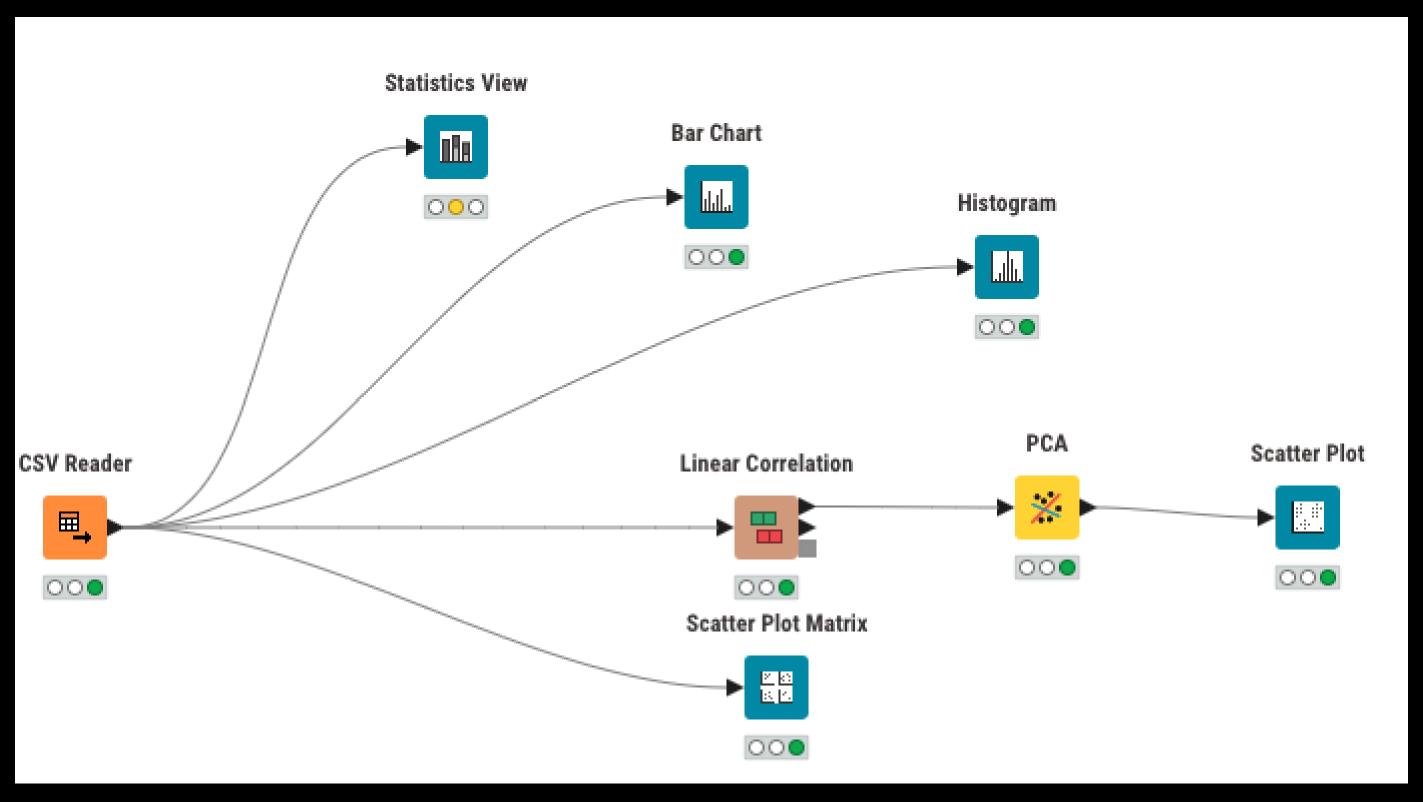


#### View Scatter Plot Matrix



## The work is done, great job!"

# You have a basic EDA quickly





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