Artificial Intelligence and Data Mining tools for Sustainability
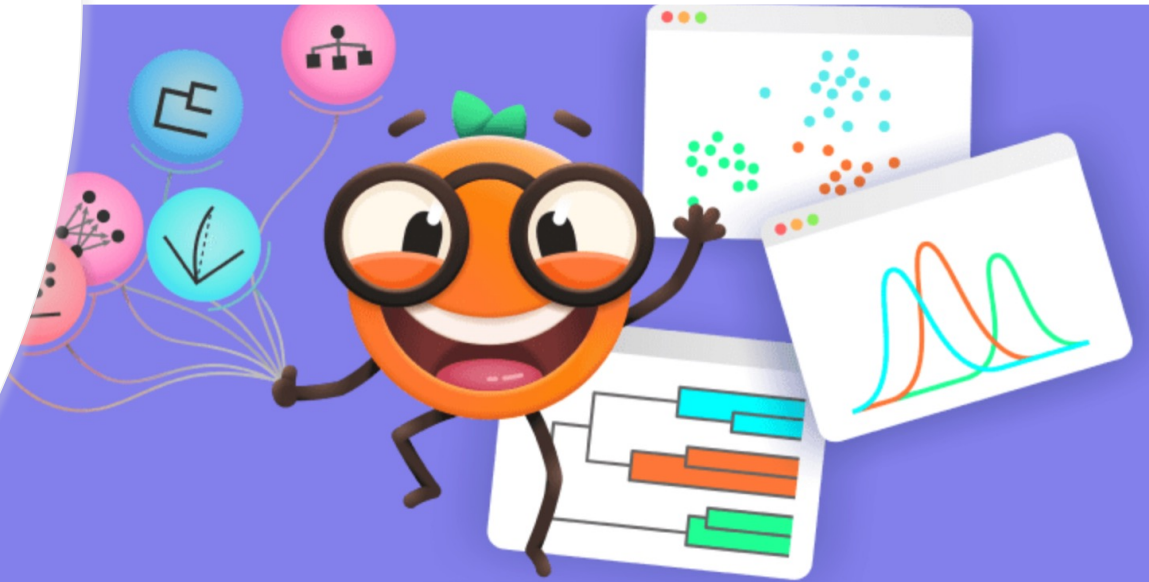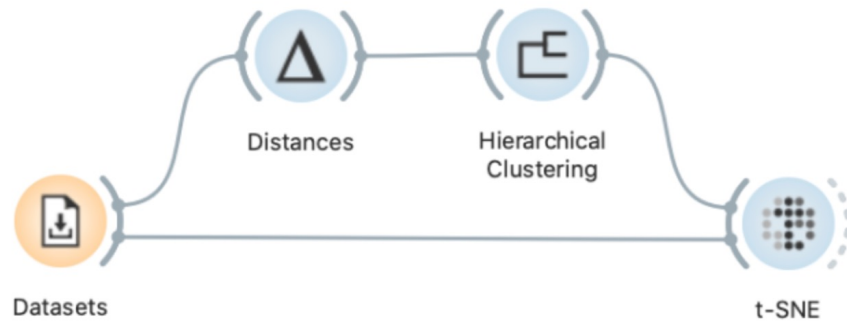
Visual Programming

Interactive data exploration for rapid qualitative analysis with clean visualizations. Graphic user interface allows you to focus on exploratory data analysis instead of coding, while clever defaults make fast prototyping of a data analysis workflow extremely easy. Place widgets on the canvas, connect them, load your datasets and harvest the insight!
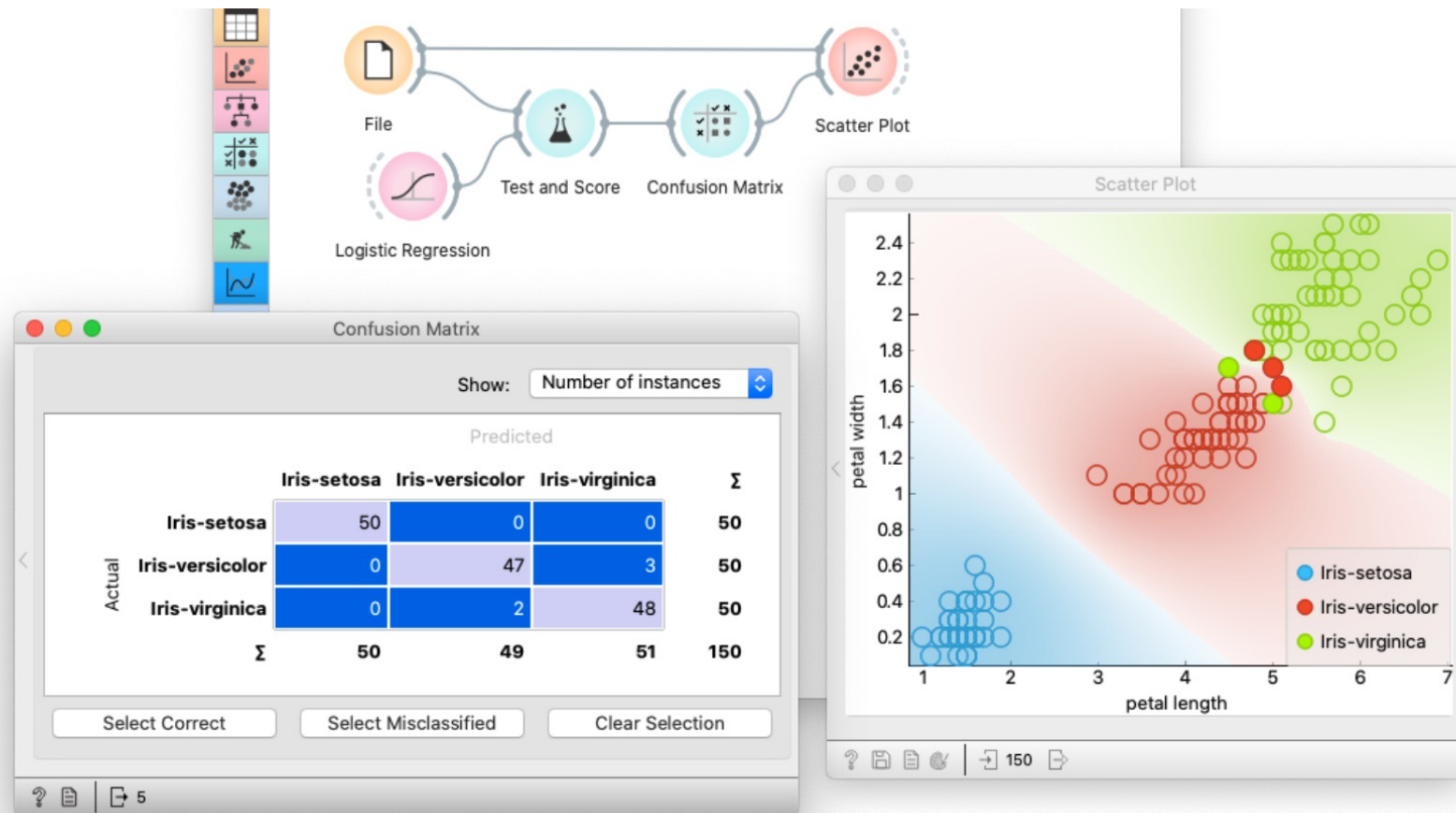
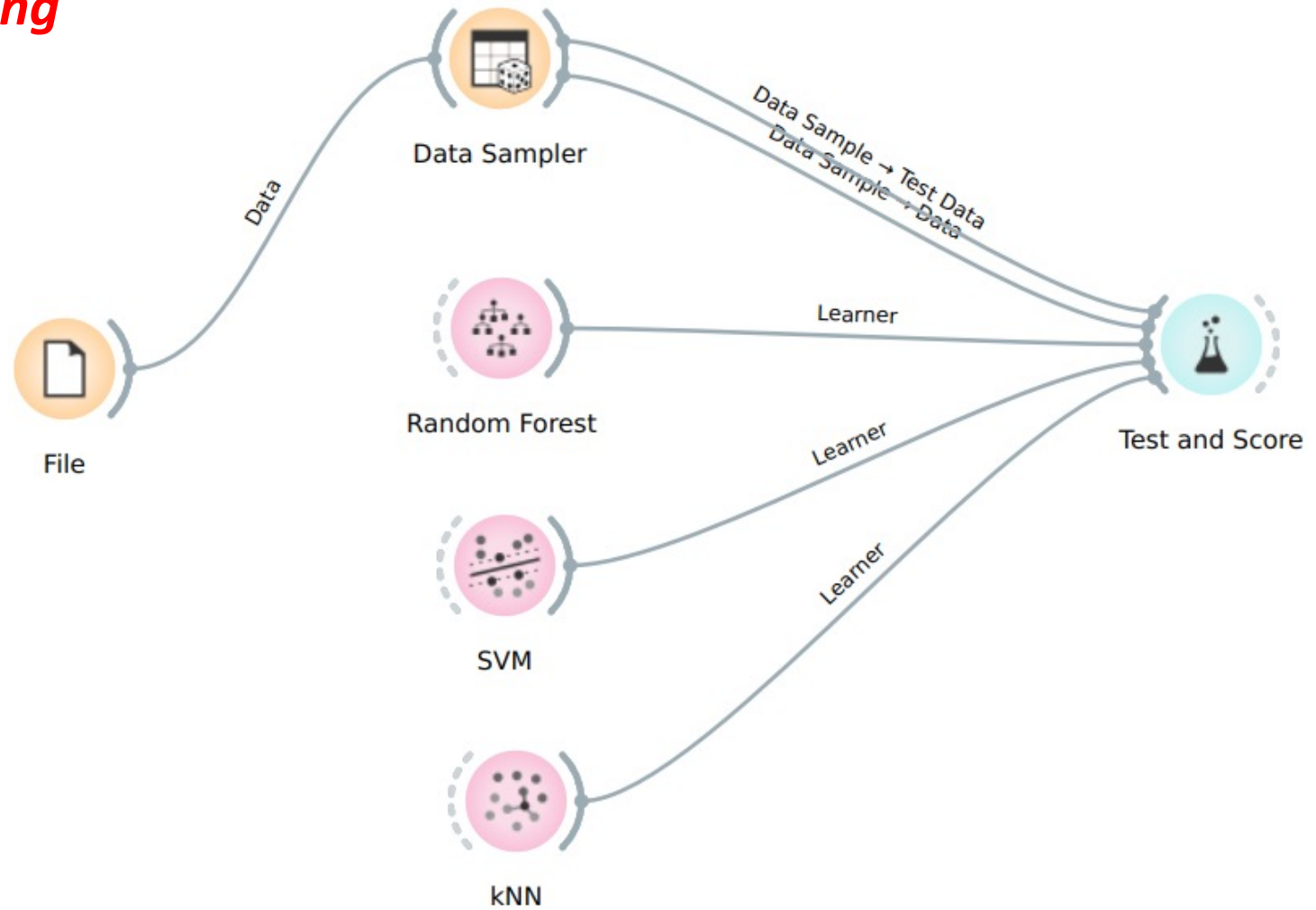# Orange Data Mining

Interactive Data Visualization. Perform simple **data analysis** with clever data visualization.

Machine learning

File — Data → Data Sampler

Data Sampler — Data Sample → Test Data → Test and Score

Data Sampler — Data Sample → Data → Test and Score

Random Forest — Learner → Test and Score

SVM — Learner → Test and Score

kNN — Learner → Test and Score

Well-known validated datasets for environmental Data-mining and artificial intelligence applications

TOP 10
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kaggle

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Q Search

Environment Impact of Food Production

What are the environmental impacts of food and agriculture?

Data Card   Code (18)   Discussion (1)

About Dataset

Context

As the world's population has expanded and gotten richer, the demand for food, energy and water has seen a rapid increase. Not only has demand for all three increased, but they are also strongly interlinked: food production requires water and energy; traditional energy production demands water resources; agriculture provides a potential energy source. This article focuses on the environmental impacts of food. Ensuring everyone in the world has access to a nutritious diet in a sustainable way is one of the greatest challenges we face.
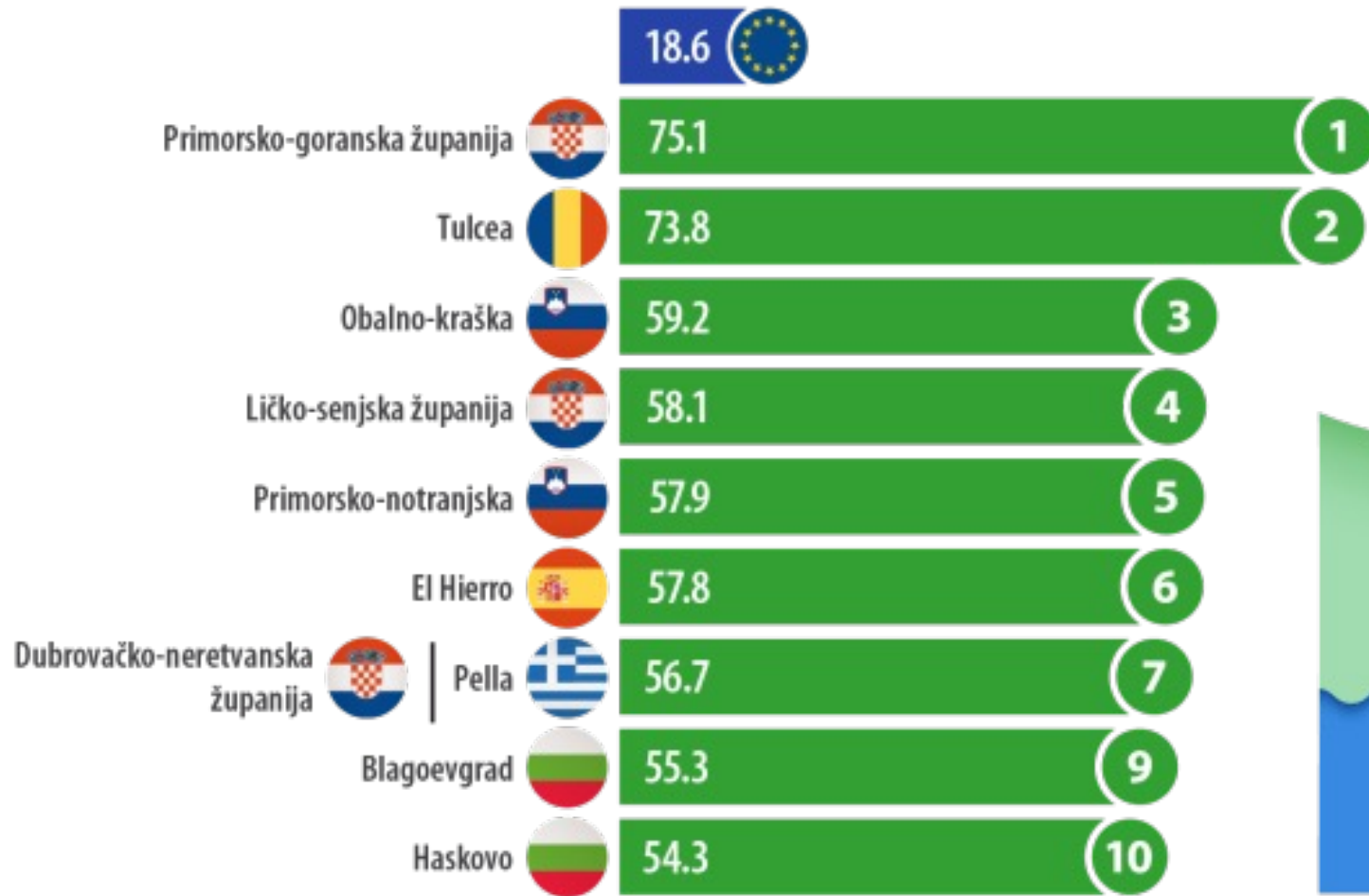
Content

This dataset contains most 43 most common foods grown across the globe and 23 columns as their respective land, water usage and carbon footprints.
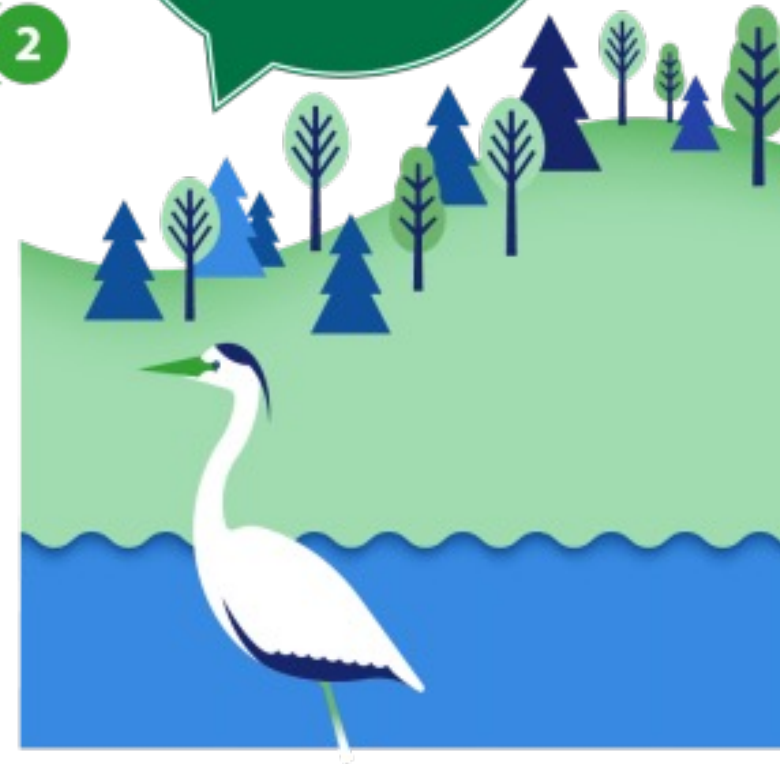
Columns

  1. Land use change - Kg CO2 - equivalents per kg product
  2. Animal Feed - Kg CO2 - equivalents per kg product

Application Examples

Which EU regions had the highest shares of protected areas under Natura 2000?

Region	%
EU	18.6
Primorsko-goranska županija	75.1 (1)
Tulcea	73.8 (2)
Obalno-kraška	59.2 (3)
Ličko-senjska županija	58.1 (4)
Primorsko-notranjska	57.9 (5)
El Hierro	57.8 (6)
Dubrovačko-neretvanska županija / Pella	56.7 (7)
Blagoevgrad	55.3 (9)
Haskovo	54.3 (10)

(% of total area, by NUTS 3 regions, 2021)
Source: European Environment Agency (EEA)