

Ferramentas de Aprendizagem Automática

(Machine Learning Tools)

### Aprendizagem e Decisão Inteligentes

Licenciatura em Engenharia Informática/3° ano - 2° semestre Mestrado [integrado] em Engenharia Informática/4° ano - 2° semestre Cesar Analide, Inês Amorim, Pedro Oliveira



#### **Agenda**

- Introdução à plataforma KNIME
- Construção de fluxos de análise de dados (KNIME workflows)
- Experimentação (hands on)



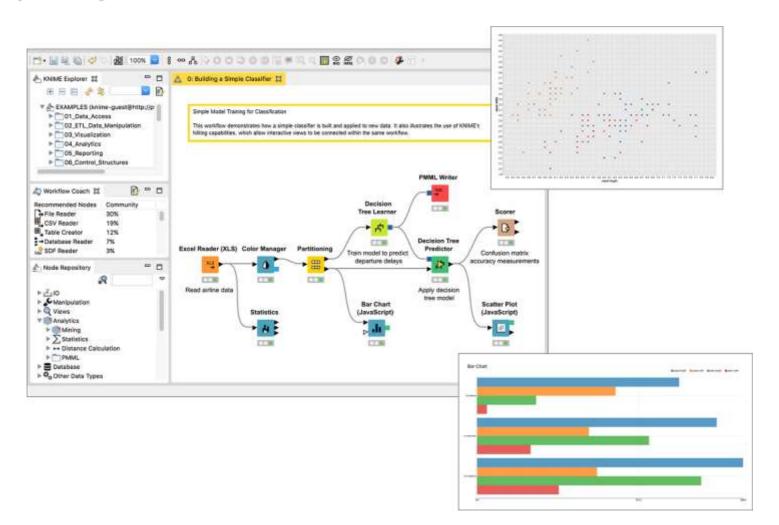




**KNIME | Open for Innovation** 

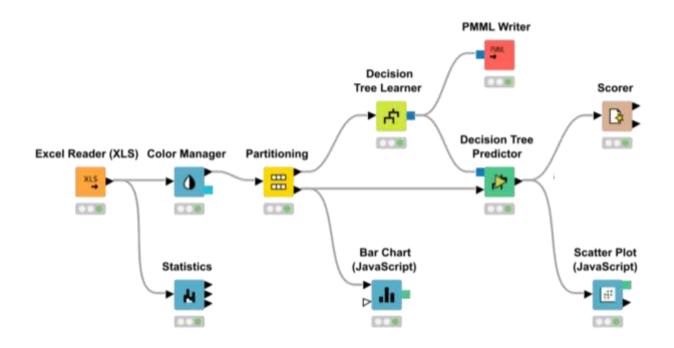






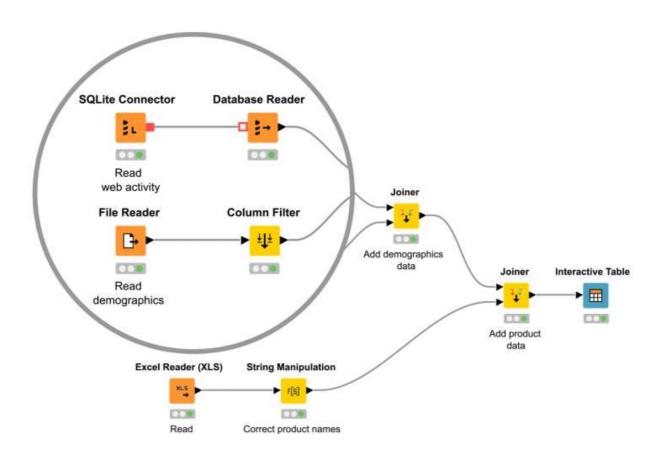






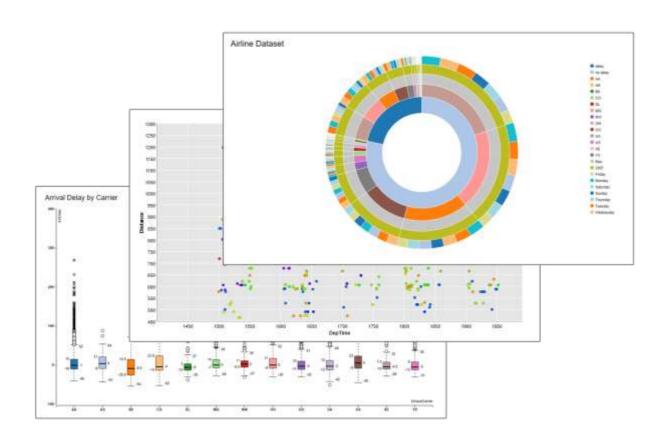






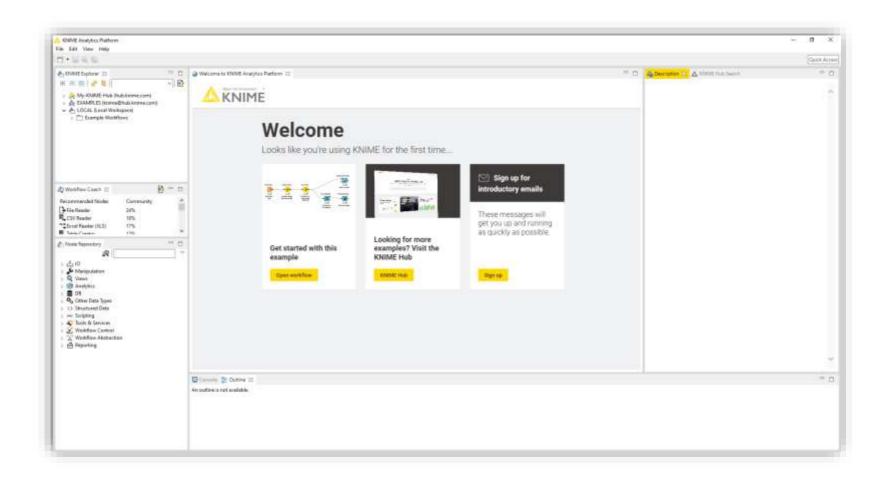












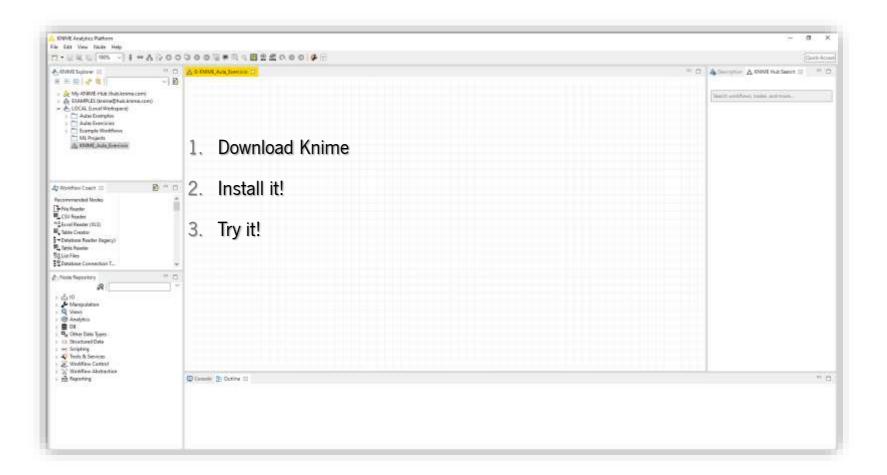










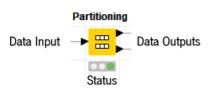


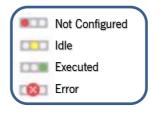




## Nodos e Fluxos Nodes and Workflows

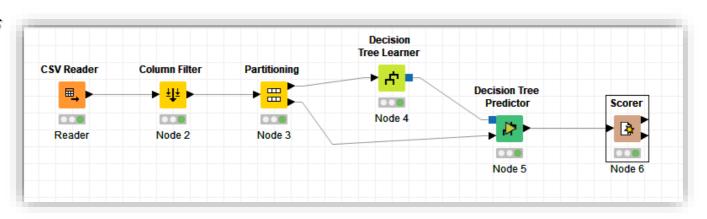
Nodos Nodes





Data flow

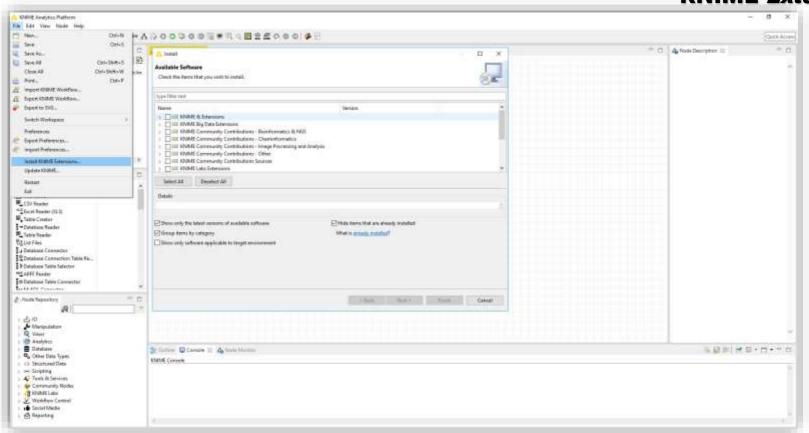
FluxosWorkflows







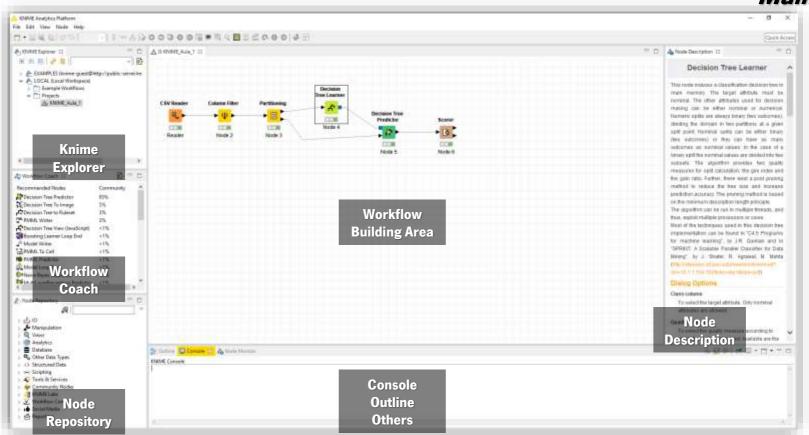
## **Extensões KNIME KNIME** *Extensions*







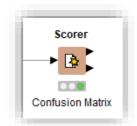
# Áreas de trabalho principais *Main Views*

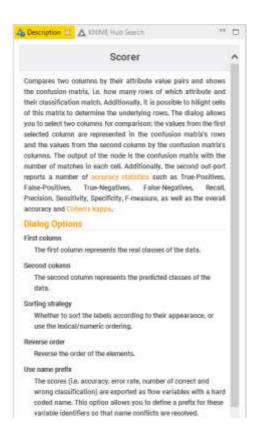


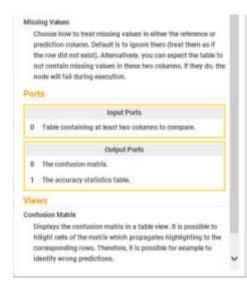




### Descrição dos Nodos Node Description



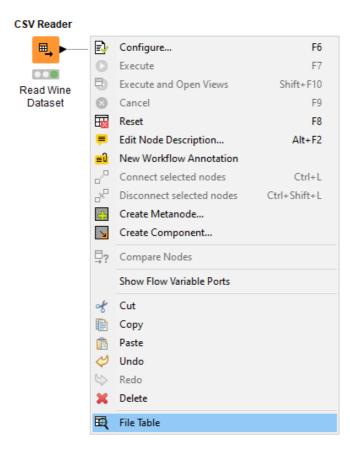








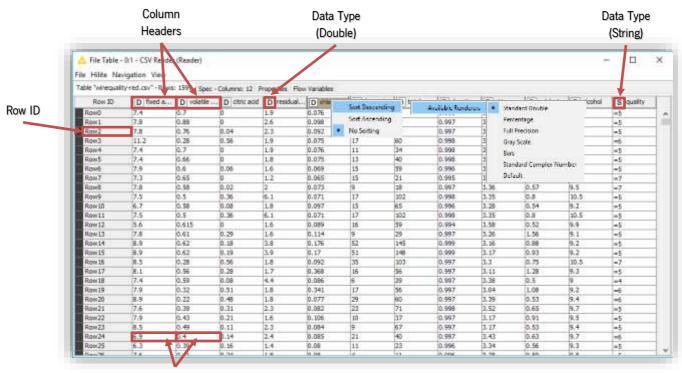
## Visualização do Ficheiro de Dados Data Table Structure View







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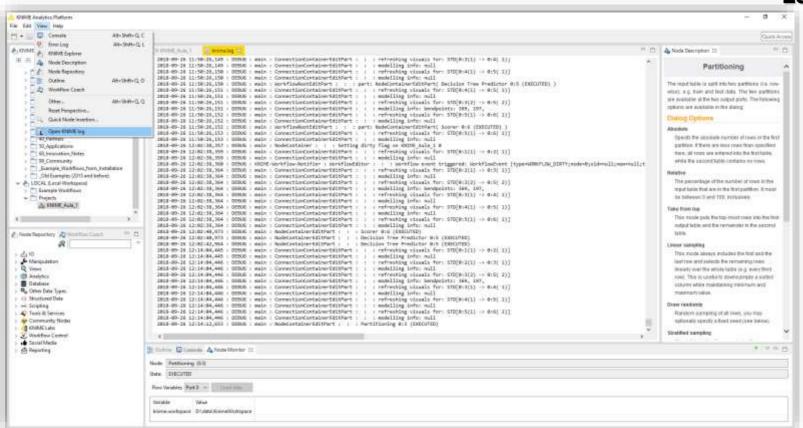


Data Cells





#### Log View

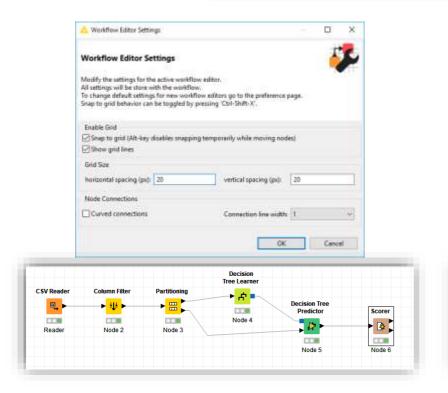


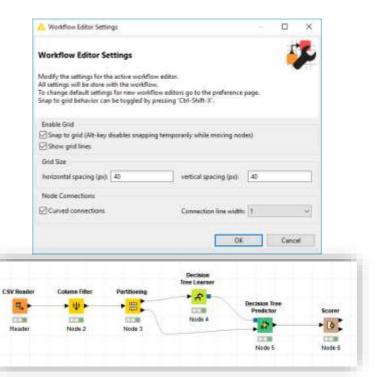




#### **Views' Customization**



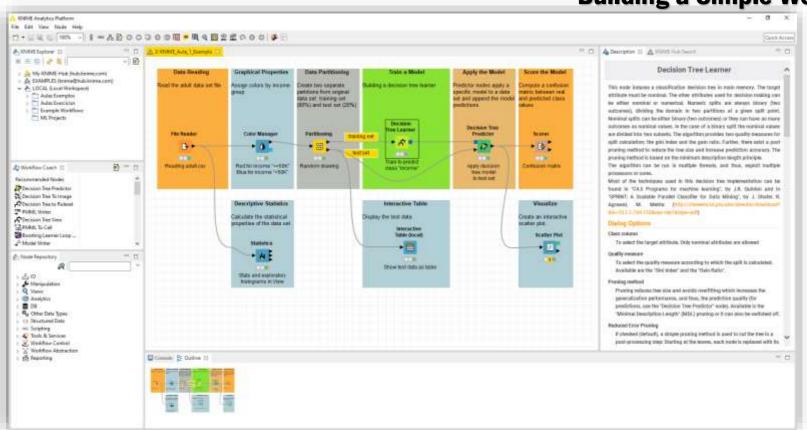








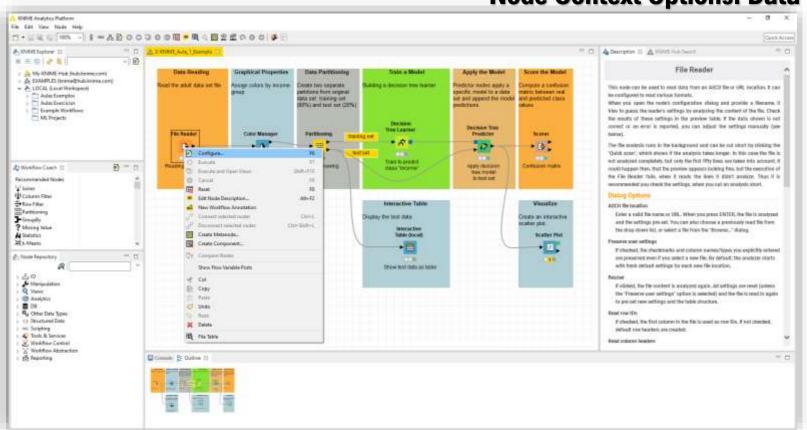
**Building a Simple Workflow** 







**Node Context Options: Data Loader** 







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