Data Analytics Foundations

Online Workshop 1

Course structure

Five modules over 8 weeks:

- 1. Introduction to data analytics
- 2. Know your data
- 3. Data pre-processing
- 4. Data exploration and visualisation
- 5. Clustering

Assessment

Assignment: Data exploration and preparation

- Explore a real dataset
- Apply ideas and techniques covered in the course
- Identify interesting patterns, problems with the data, scope for further exploration...
- Due two weeks after end of teaching (Sunday, May 1, 2022)

KNIME

- KNIME installation
- KNIME exploration

KNIME Exercise

Read data from local drive

CSV and Excel datasets from local drive using "Reader" KNIME node

Read data from web service

- using "Get Request" node
- E.g. URL: https://api.btcturk.com/api/v2/ticker
- Add JSON Path and Ungroup nodes to extract the results

KNIME Exercise

