

Workshop 2. Advanced Analytics using TIBCO Spotfire® Analyst.

Duration

1 Day Workshop

Objectives

Teaching students to extend their dashboards using:

- Advanced analytical concepts
 - Calculated columns and expressions within visualizations
 - Document properties, complex custom expressions
 - Advanced marking and filtering
- Built-in statistical tools for clustering, data relationships, and classification modelling
- Working with TIBCO Enterprise Runtime for R
- Using the Advanced Data Canvas
- Analysing streaming data

Description

This one-day workshop is designed to extend a student's expertise in using advanced analytical concepts and extending visual analytics with the built-in tools for advanced analysis and statistical analysis and modeling available in the Spotfire Analyst. TIBCO Spotfire® Data Streams is used to showcase how to analyze streaming data in Spotfire®.

Outcome

Students will leave the workshop with the tools necessary to build powerful analytical dashboards, perform data wrangling, and leverage Spotfire's built-in statistical tools to build models and identify unseen relationships within the data.

Curriculum*

1. Spotfire® Advanced Technologies
 - a. Expressions
 - i. Functions
 - ii. Expression Shortcuts
 - b. Advanced Properties Controls
 - i. Control Types
 - ii. Control types
 - iii. Referencing Properties
 - iv. Multi-select property controls and the "map" command.
 - v. Centralizing maintenance and reducing development time using document properties.
 - c. Advanced Data Canvas
 - d. Data Connections
 - e. Data on Demand
 - f. In-depth Marking and Filtering
2. Built-in Analytics Tool
 - a. Data Relationships
 - i. Numerical vs Numerical
 - ii. Numerical vs Categorical
 - iii. Categorical vs Categorical
 - b. Data Predictions
 - i. Regression Modelling
 - ii. Classification Modelling
 - c. Lines & Curves
 - d. Multivariate Data Analysis
 - i. Line Similarity
 - ii. K-Means Clustering
 - iii. Hierarchical Clustering
3. Introduction to R/TERR
 - a. Working with Data Functions
 - b. TERR Tools
 - c. TIBCO Data Science Statistica Data Function
4. Streaming Visualizations
 - a. Connecting to Dynamic streams
 - b. Streaming data
 - c. Combining with static data

Timing

- 09h00 Session 1
10h30 Break
11h00 Session 2
12h30 Lunch
13h15 Session 3
14h45 Break
15h00 Session 4
16h30 End