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KNIME

Agenda

Course for KNIME Analytics Platform (Day 1)

Introduction to KNIME	9:30 – 10:15	Introduction Installing KNIME The KNIME Workbench Preview of the “Next Best Offer” Workflow
Importing Data	10:15 – 11:00	Data Source Nodes Reading Files Connecting to a Database
Data Manipulation & Data Aggregation	11:00 – 12:00	Data Manipulation Nodes Aggregation (GroupBy) Data Integration, Join
	12:00 – 1:00	**Lunch**
Data Visualization	1:00 – 1:45	Visualization Nodes Interactivity Interactive View Nodes Graphics from R
Data Mining	1:45 – 3:00	Process Overview Learner/Predictor Motif Creating Test and Training Sets An Example: Decision Trees Model Evaluation: Scoring and RoC
	3:00 – 3:30	**Coffee Break**
Integrating External Tools	3:30 – 4:00	Scripting (Java, Python, R) Web Services JSONPath/XPath
Data Export & Reporting	4:00 – 5:00	File Writer Nodes Database Write/Update Reporting
Summary & Catch-up	5:00 – 5:30	Summary of Materials Covered Q&A Session

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Agenda

Course for KNIME Analytics Platform (Day 2)

Flow Variables	9:30 – 11:00	Local Variables (and Credentials) Variables to Override Node Settings Widget nodes & Components
Time Series Analysis I	11:00 – 11:30	The Date/Time Type
Time Series Analysis II	11:30 – 12:00	Time Series Manipulation
	12:00 – 1:00	**Lunch**
Workflow Control	1:00 – 3:00	Loops Switches Try Catch
	3:00 – 3:30	**Coffee Break**
Advanced Data Mining	3:30 – 4:30	Other Modeling Tools Parameter Optimization Cross Validation H2O Integration Keras Integration
Databases	4:30 – 5:15	Basic Setup Connectors Reading and Writing Visual Query Generation
Open Session	5:15 – 5:30	Example Workflows: • Cheminformatics • RESTful Web Services • Geospatial Analysis • Web-enabled Workflows • Text & Network Analysis Independent Exploration of Application Workflows Final Q&A

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