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KNIME

Course for
KNIME Analytics Platform

Agenda

November 13-14, Berlin



Course for KNIME Analytics Platform – Basic – Agenda
November 13, 2017. KNIME GmbH, Körtestr. 10, 10967 Berlin

Breakfast and Introductions	09:00 – 10:00	Coffee, cakes, and a chance to chat
Introduction to KNIME	10:00 – 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 – 13:00	Lunch
Visualization & Highlighting	13:00 – 13:30	Interactivity, Highlighting Interactive view nodes JavaScript visualization nodes Graphics from R
Data Mining	13:30 – 14:30	Process Overview Learner/Predictor Motif Creating Test and Training Sets An Example: Decision Trees Model Evaluation: Scoring and RoC
Tool Integration	14:30 – 15:00	Scripting (Java, Python, R) Web Services External Tool Node
	15:00 – 15:30	Break
Integrating External Tools (contd.)	15:30 – 16:00	JSONPath/XPath Big Data (Hive, HDFS, Spark)
Data Export & Reporting	16:00 – 17:00	File writer nodes Database write/update Basic reporting
Summary & Catch-up	17:00 – 18:00	Summary of Materials Covered Q&A Session
	19:00	Dinner, hosted by KNIME

**Course for KNIME Analytics Platform – Advanced – Agenda
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Breakfast and Introductions	09:00 – 10:00	Coffee, cakes, and a chance to chat
Flow Variables	10:00 – 11:30	Local Variables (and Credentials) Variables to Override Node Settings Using QuickForms & Wrapped Meta Nodes
Time Series Analysis	11:30 – 12:00	The Date/Time Type & Time Series Manipulation
	12:00 – 13:00	Lunch
Workflow Control	13:00 – 14:30	Loops Switches Try Catch
Advanced Data Mining I	14.30 – 15:00	Other Modeling Tools
	15:00 – 15:30	Break
Advanced Data Mining II	15:30 – 16:00	Parameter Optimization Cross Validation
Model Selection (optional)	16:00 – 16:45	Model Manipulation Comparing Models Extracting/Using Optimal Models
Open Session	16:45 – 17:30	Example Workflows: <ul style="list-style-type: none"> • Cheminformatics • RESTful Web Services • Geospatial Analysis • Web Enabled Workflows • Text & Network Analytics Independently Explore Application Workflows Final Q&A
	17:30	Close