

RapidMiner Server: Web Apps and Deployment

Course Overview

RapidMiner Server: Web Apps and Deployment is a comprehensive two-day course focusing on the RapidMiner Server product from the perspective of a user and an administrator. The RapidMiner Server is a collaboration platform for data science teams, a vehicle to automate recurring tasks and it provides options to setup up reports for non-technical users as well as integration into existing IT infrastructures. Since every element of a RapidMiner Server web app is powered by a RapidMiner process, clever designers can create interactive forms that incorporate an endless array of functionality to accommodate various business requirements.

After successfully completing this course, participants will have a solid understanding of RapidMiner Server. Participants will be able to deploy predictive models, collaborate with team members, automate processes, manage access rights, design reports & interactive web apps, and will be ready to extend their knowledge to advanced topics such as Big Data Analytics with RapidMiner Radoop and Text and Web Mining with RapidMiner.

Practical exercises during the course put students into a position to take the knowledge gained and apply it rapidly to their own RapidMiner Server installation.

Target Audience

Advanced Analysts, Data Scientists and Administrators

Prerequisites

Basic knowledge of computer programs and mathematics

RapidMiner Basics Part 1

RapidMiner Basics Part 2

Course Objectives

After the training, students will have the ability to:

- Utilize RapidMiner Server as a tool for collaboration
- Deploy analytical models built with RapidMiner Studio on RapidMiner Server
- Automate and schedule processes
- Manage access rights for RapidMiner Server

- Integrate models into their business process using web services
- Design and launch web-based reports and dashboards
- Create interactive web applications
- Develop parameterized processes to interpret end-user feedback

Course Outline

- **Collaboration**

- ◇ Sharing Data Repositories
- ◇ Reading from and Writing to Relational Databases
- ◇ Sharing Workloads for Process Development
- ◇ Parameterizing Processes for Broader Use
- ◇ Building a Process Library
- ◇ Reducing Device Specific Bottlenecks in a Workflow

- **Automation**

- ◇ Deploying Tested Models in a Production Environment
- ◇ Scheduling Processes
- ◇ Using Triggers
- ◇ Turning RapidMiner Processes into Web Services

- **Administration**

- ◇ Understanding Changes RapidMiner Server makes to the Studio Interface
- ◇ Navigating the Admin Console Web Interface
- ◇ Controlling User Access with Roles
- ◇ Managing Throughput with Process Queues

- **Reporting, Dashboards and Web Applications**

- ◇ Exporting Results to Files
- ◇ Designing Informative Data Visualizations for the Web
- ◇ Creating Interactive Environments for Ad Hoc Analysis
- ◇ Designing Web Applications for Business Users
- ◇ Managing Model Results and Predictions with Web Apps