Unified data science platform

- Build machine learning models and put them into production faster than ever, using RapidMiner’s lightning fast visual workflow designer and automated modeling capabilities.

- Eliminate the complexities of cutting edge data science, making it easy to use the latest machine learning algorithms and technologies like TensorFlow, Hadoop, and Spark.

- Integrate all your existing applications, data, and programming languages. RapidMiner is open source and used by a community of over 350,000 data scientists.
Operationalize competitive advantage

Leverage the explosion of digital data to create true 360-degree customer views and highly effective, personalized interactions. Combine and analyze huge volumes of data in a fraction of the time to identify potential anomalies or service opportunities. Unify internal and external data to holistically identify and analyze risk, eliminate false positives, and reduce the uncertainty of outcomes, liabilities, or losses.

Global enterprises use RapidMiner for a wide variety of data science projects across customer analytics, operational analytics, and risk analytics including:

- Churn Prevention
- Customer Lifetime Value
- Customer Segmentation
- Next Best Action
- Product Propensity
- Demand Forecasting
- Price Optimization
- Predictive Maintenance
- Quality Assurance
- Text Mining
- Fraud Detection
- Risk Management
RapidMiner Studio

A visual workflow designer that makes analytics teams more productive, from the rapid prototyping of ideas to designing mission-critical predictive models.

Key features

- Visual workflow designer
- Hundreds of machine learning & data prep functions
- Guided analytics
- Reusable building blocks
- Easy integration of R & Python code
- Correct model validation methods
- Access to all types of data

Maximize data science productivity

RapidMiner Studio is a visual workflow designer that makes data scientists more productive. You can either design workflows from scratch using cutting-edge data prep and machine learning algorithms or let RapidMiner Studio automatically generate a model. Either way, you have complete control and insight into how the model works, so you can be confident with the results.

RapidMiner Studio is open and extensible, so organizations can integrate with all their existing applications, data, and programming languages like Python and R code. From the rapid prototyping of ideas to designing mission-critical predictive models, RapidMiner Studio solves the hard problems in data science with a visual interface that’s fast and fun to use.

Accelerate data prep

RapidMiner Studio provides a wealth of functionality to speed and optimize data exploration, blending, and cleansing tasks – reducing the time spent importing and wrangling your data.
Develop models quickly

Hundreds of machine learning, text analytics, predictive modeling algorithms, automation, and process control features help you build better models faster than ever before.

Confidently evaluate performance

Accurately estimate model performance – and confidently validate your results. RapidMiner Studio delivers a correct assessment of the performance of your predictive models before you put them into production.

Open and extensible

Integrate all of your existing applications, data, and programming languages. This includes native R and Python support, extensions from the RapidMiner Marketplace, and access to the RapidMiner Studio source code.
RapidMiner Auto Model
Automated machine learning that accelerates everything data scientists do when building predictive models #noblackboxes

Key features
- Visually guided data prep
- Automated model selection & optimization
- Predictive & prescriptive insights into models and results
- Visibility into back-end process flows inside RapidMiner Studio

Guided data prep
Quickly load and prep your data and define the analytical goal (Predict, Cluster, Outlier) to build your machine learning models. Select any data set and find the best models and necessary data preparation. Built-in best practices in data science give you guidance for your modeling decisions.

Automated model selection and optimization
RapidMiner Auto Model suggests the best Machine Learning techniques for your data and optimizes parameters for your models.
Deep-dive into results and unlock prescriptive insights

Auto Model allows you to explain individual predictions and to visually or algorithmically “what if” and optimize for specific outcomes. The advanced results dashboard allows you to deep-dive into key model metrics and quickly find the optimal model for your data.

No black boxes

Auto Model generates a complete RapidMiner Studio workflow behind the scenes. Inspect the workflow and use it as a starting point for your modeling.
RapidMiner Server

A collaboration, computation, and deployment platform that improves the productivity of analytics teams.

**Key features**

- Highly scalable microservices-based architecture
- Easy & secure resource management
- One-click deployment using Web Services
- Shared repository with security controls
- Reusable templates & processes
- Integrate custom dashboards
- Scheduling of workflow executions

**Collaboration for data analytics teams**

RapidMiner Server is designed to improve the productivity of analytics teams so you can do more data science. You can share knowledge and best practices across your organization, inside a centralized repository, using built-in security controls to limit access as necessary. Optimize with the advanced queuing mechanism: RapidMiner Server can slice out resources and dedicate to teams, use cases, or projects.

**Speed predictive modeling**

RapidMiner Server is designed to take full advantage of enterprise-grade compute environments. You can offload large jobs to the server, dramatically increasing modeling speed by taking advantage of high performance hardware.

**Deploy models into production**

Turn predictions into prescriptions by embedding predictive models into your business processes in just a few clicks. With RapidMiner Server, you can deploy predictive models into applications, databases, BI tools, and more.
Models can also be consumed via APIs and web services, allowing for integrations with anything. Monitor model performance, detect model degradation, and react by automatically retraining to keep up with the changes.

With just a few clicks, you can set up scheduled processing to keep retraining models and continuously score data in real-time.

**Highly scalable, distributed architecture**

Use the highly scalable architecture of RapidMiner Server for mission-critical data science applications. Know that you’re doing everything to be in control, reduce risk, and grow, as your business needs evolve.

RapidMiner Server can be deployed both on-premises or in the cloud.

**Real-Time Scoring**

Predict at scale, with very low latency, and deliver actionable intelligence in real-time to the decision maker or machine.

This back-end capability is designed for demanding use cases requiring very fast scoring, like predicting how your customers behave, when your industrial parts will break, or calculating the risks associated with an action or a client. Enable real-time online scoring from web portals, phone apps, or desktop applications.
RapidMiner Radoop

Removes the complexity of data prep and machine learning on Hadoop and Spark.

Key features

- Visual workflow designer for Hadoop & Spark
- Extend in-memory functionality, execute workflows inside Hadoop
- Uses Hadoop security standards Apache Sentry & Ranger
- 60+ Hadoop & Spark operators covering a wide range of use cases
- Supports Cloudera, Hortonworks, MapR, & Microsoft Azure HDInsight

Simplified data prep and machine learning on Hadoop

RapidMiner Radoop leverages RapidMiner Studio’s visual workflow designer to simplify the creation, execution, and maintenance of predictive analytics in Hadoop and Spark. The code-free environment and built-in intelligence minimizes the complexities of Hadoop, so you can concentrate on solving business problems without experiencing dead ends and technical difficulties.

Visual workflow designer

The visual workflow designer allows for code-free data prep and machine learning. Analytic tasks are created with visually represented data process flows that are easy to develop and maintain, while all computations are pushed to and executed in your Hadoop environment.

Work with Apache Spark, feel like a native

RapidMiner SparkRM enables all operations and data process flows in RapidMiner Studio to run in-parallel inside Hadoop environment using Apache Spark as the execution framework, broadening use cases and enabling richer algorithms than MLlib.
Eliminate connectivity struggles with fluid technology orchestration

Radoop pushes computations to your existing Hadoop or Spark infrastructure. Leverage Spark or Hive transparently and focus on real data science. With Radoop’s flexible processing, you can train with large datasets in Hadoop and create lightweight scoring processes in memory. RapidMiner Radoop supports Cloudera, Hortonworks, MapR, and Microsoft Azure HDInsight Hadoop distributions.

State of the art security

Enables centralized analytic workflow management without compromising IT regulations. Support for popular security standards, including Kerberos, Apache Ranger, and Apache Sentry.
Data scientists at brands like these trust RapidMiner