The Power & Flexibility of R with the World’s Best Decision Trees

Widely known for industry leading, patented Decision Trees and graphical wizard-driven interface, Angoss KnowledgeSEEKER® and KnowledgeSTUDIO® predictive analytics software tools help data analysts and business users with data exploration, development, and deployment of predictive models.

KnowledgeSEEKER and KnowledgeSTUDIO provide users with a powerful automated canvas for building, displaying, refreshing, and reusing analytic workflows in minutes by dragging and dropping process nodes onto the canvas where they can be connected to a workflow, providing instant visual documentation of analytics tasks. This automated workflow enables the full integration of R via the R code workflow node.

The integration of R into the KnowledgeSEEKER and KnowledgeSTUDIO workflow couples the power and flexibility of R, the world’s most widely used statistical programming language, with the user friendly, advanced visualization of Angoss’ market-leading Decision Trees and Strategy Trees.

The new Angoss R integration allows users to write R programs directly within KnowledgeSEEKER and KnowledgeSTUDIO via the R workflow node, eliminating the need to move between multiple analytics tools.

The new R workflow node allows users to open an R environment from within KnowledgeSEEKER and KnowledgeSTUDIO providing them the freedom to start writing R code.

Within the R code node, users can load the full breadth of R packages to undertake data manipulation, diverse data mining, and statistical algorithms (linear and nonlinear modelling, classical statistical tests, time-series analysis, classification, clustering, and more).

The R datasets resulting from the R code node can be explored using Angoss’ powerful, easy to use advanced visualization tools including a broad range of reports, charts, graphs, and views which allow users to quickly gain an understanding of their data.

Users are able to leverage the resulting R datasets to develop, validate, and deploy all powerful and
scalable Angoss KnowledgeSEEKER and KnowledgeSTUDIO predictive models including market-leading Angoss Decision Trees and unique Strategy Trees.

Angoss models and workflows developed with R datasets are quickly and easily generated into enterprise ready deployment code in SAS, SQL, or PMML.

Worldwide, millions of statisticians and data scientists are using R to solve their most challenging problems – the Angoss KnowledgeSEEKER and KnowledgeSTUDIO R integration enables seamless collaboration across analytics organizations with R analysts, SAS users, and business users all working within the same advanced predictive analytics workbench.

Angoss KnowledgeSEEKER and KnowledgeSTUDIO with the R workflow node are available as a desktop installation as well as a client-server implementation, allowing users to deploy on their most powerful servers – both with simple, user based pricing.

**Angoss KnowledgeSEEKER and KnowledgeSTUDIO Predictive Analytics**

Recognized worldwide for industry leading, patented Decision Trees and graphical wizard-driven interface, Angoss KnowledgeSEEKER and KnowledgeSTUDIO predictive analytics software tools help data analysts and business users with data exploration, development, and deployment of predictive models. They allow users to quickly develop insights to advance their business objectives-unlocking actionable knowledge from their datasets.

These tools provide users with a powerful automated canvas for building, displaying, refreshing, and reusing analytic workflows in minutes by dragging and dropping workflow nodes, including the R language code node, onto the user friendly visual canvas – eliminating the need to write code, increasing efficiency.

**Angoss Decision Trees**

Angoss patented Decision Trees provide an intuitive interface for building and exploring segments, discovering relationships between variables, performing variable reduction and much more. With an easy to use point-and-click interface, Angoss Decision Trees can be grown manually by creating custom splits or automatically using segmentation algorithms, or using a combination of both methods. This visual, real-time exploration aided by many usability features such as pan and zoom, variable search, and copying and pasting splits saves time for significant productivity and efficiency gains.

**Angoss Strategy Trees**

Unique, patent pending Angoss Strategy Trees are the first of their kind for building and deploying predictive strategies. Strategy Trees combine the usability of Angoss industry-leading Decision Trees with an intuitive, visual, and collaborative approach for strategy design, authoring and validation workflow. Strategy Trees combine customer segments, scores, business rules, and calculations – applying user-defined treatments and actions to support decisioning and the development of business strategies, actions and optimization.

**Angoss Model Analyzer**

Model Analyzer provides an extensive set of model validation and comparison features as well as model deployment tools. Model performance can be evaluated and compared using lift and cumulative lift charts, relative operating characteristic curves and other charts. All models can be validated against a validation partition or a new dataset. Cumulative Lift and Lift Reports can be created in order to provide a summary of these comparisons. This allows users to provide management with estimated response rates and lift for each individual model.
About Angoss Software

As a global leader in predictive analytics, Angoss helps businesses increase sales and profitability, and reduce risk. Angoss helps businesses discover valuable insight and intelligence from their data while providing clear and detailed recommendations on the best and most profitable opportunities to pursue to improve risk, marketing and sales performance.

Our suite of desktop, client-server and big data analytics software products and Cloud solutions make predictive analytics accessible and easy to use for technical and business users. Many of the world's leading organizations use Angoss software products and solutions to grow revenue, increase sales productivity and improve marketing effectiveness while reducing risk and cost.