

PUT YOUR BEST MODELS FORWARD – FASTER!

Managing predictive models and knowing which models should be used for production, when done manually, can be an error-prone, and time-consuming task. With the ongoing pressure for companies to be at the cutting edge faster than ever before, delays and errors in the decision making process can have costly consequences.

So how do companies sort through a multitude of models to put the best ones forward – faster – and monitor them to prevent degradation?

In order to automate and streamline the management of models, companies need a secure, compliant, organized and easily accessible framework for model storage, comparison, monitoring and deployment.

KnowledgeMANAGER provides KnowledgeSEEKER™, KnowledgeSTUDIO™ and KnowledgeCORE™ users with the means to centralize all Angoss models and execute the following functions:

1. **Manage Models** - Enables users to oversee multiple models, as well as add new models, create champion – challenger models and close models
2. **Compare Models** – Compare competing models and select the best performing model for deployment

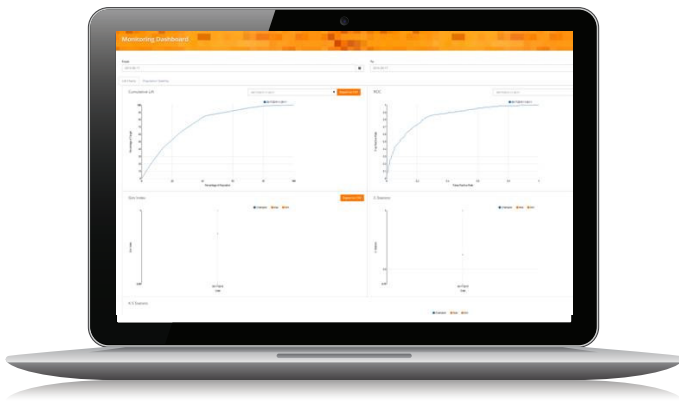
A Single Application Designed to Address Decision Making Challenges

- *Manually managing the life-cycle of predictive models can be a tedious, error-prone task*
- *Businesses must invest in several costly applications to cover all phases of the model management process*
- *Model management software products on the market are expensive and do not provide value for money spent*
- *Lack of model monitoring and comparison processes can result in model degradation and ultimately poor business decisions*
- *Lack of a model management framework can result in high overhead costs and additional operational resources*
- *Delayed model deployment can contribute to low business performance and ultimately revenue loss*
- *Lack of model transparency can lead to regulatory, compliance and risk related issues such as fines and penalties*

3. Monitor Models – Visual monitoring and alerts enable users to measure the accuracy and performance of models

4. Score Models – Automate scoring in batch or real time for immediate model outputs

The user-friendly web-based interface enables **easy access to all models** stored in the model repository and allows the user to schematically categorize them as either champion or challenger. This ensures the **use of only the best performing models** – with each project containing only a single champion model. The systematic model storage process further allows users to: collectively store related models; store multiple model versions within a project; store unique identifiers for models within a project; and enables users to **easily locate models and projects** by model properties and project criteria, respectively, using the search engine. These and other functions **streamline the analytical modeling process** by automating the movement of models from development to production.



KnowledgeMANAGER Features at a Glance

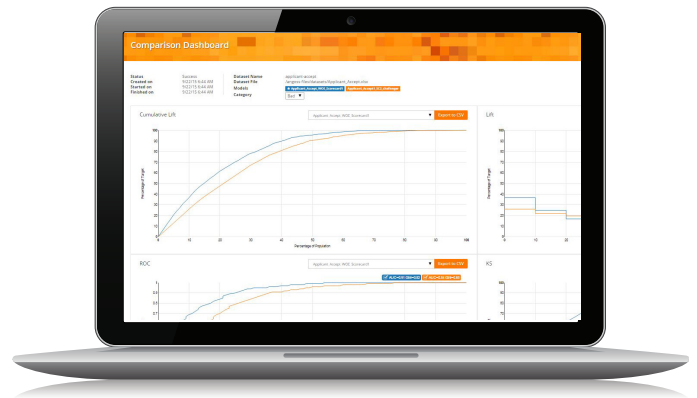
- Easy-to-Use GUI via browser-based software
- Centralized repository for all Angoss models
- Manage and compare competing models, within a single environment, to select the best performing ones for deployment
- Model Performance Evaluation and Comparison
- Model Deployment via automated model scoring
- Real-time and batch scoring
- Secure interface with a comprehensive model audit trail
- Visual dashboards, charts and reports are generated for detection of model performance deterioration
- Generate scoring output in various data formats such as SAS, R, Text, Excel, SPSS and Angoss

The centralized model repository allows organizations to **facilitate accurate business projections**. Visual dashboard model-monitoring capabilities and automated alerts for monitoring model performance and accuracy aid in determining the level of model performance deterioration. These functions enable users to proactively take action to either replace or update models.

“Deliver Faster and Smarter
Decisions More Easily”

KnowledgeMANAGER's secure environment **minimizes compliance risk** by providing managers with access to streamlined reporting such as historical comparison results, validation reports, and model validation charts and tables, for each model comparison and testing.

A comprehensive audit trail allows administrators to manage and control access to the models by assigning permissions for model access and output from users or groups working on different projects.



With KnowledgeMANAGER, organizations can **save time and resources** by regulating the scoring process via an automatic routine schedule thereby eliminating unnecessary manual steps. Champion models are scored in batch or real-time, proving **immediate model outputs** in various data formats such as SAS, R, Text, Excel, SPSS and Angoss.

By automating activities associated with deploying models users can allocate much needed time to retraining models that will have significant impact on business outcomes.

About Angoss

Angoss is a global leader in delivering advanced analytics to businesses looking to improve performance across risk, marketing and sales. With a suite of big data analytics software solutions and consulting services, Angoss delivers powerful approaches that provide you with a competitive advantage by turning your information into actionable business decisions.

Many of the world's leading organizations in financial services, insurance, retail and high tech rely on Angoss to grow revenue, increase sales productivity and improve marketing effectiveness while reducing risk and cost. Headquartered in Toronto, Canada, with offices in the United States, United Kingdom and Singapore, Angoss serves customers in over 30 countries worldwide. For more information, visit www.angoss.com.

Corporate Headquarters

330 Bay Street, Suite 200
Toronto, ON M5H 2S8
Canada
Tel: 416-593-1122
Fax: 416-593-5077

European Headquarters

New London House,
6 London Street
London
EC3R 7LP
UK
Tel: (+44) 020 3741 9522