

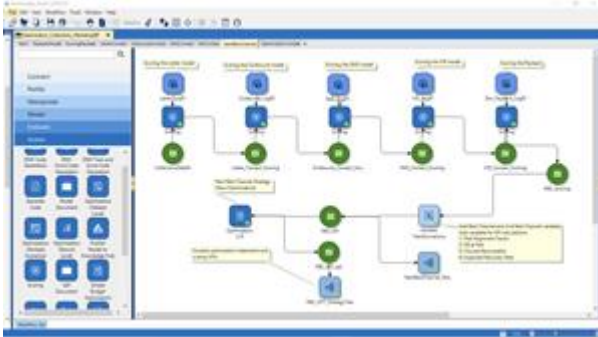


Altair Releases New Version of Altair® Knowledge Studio® Market-leading Machine Learning and Predictive Analytics Solution

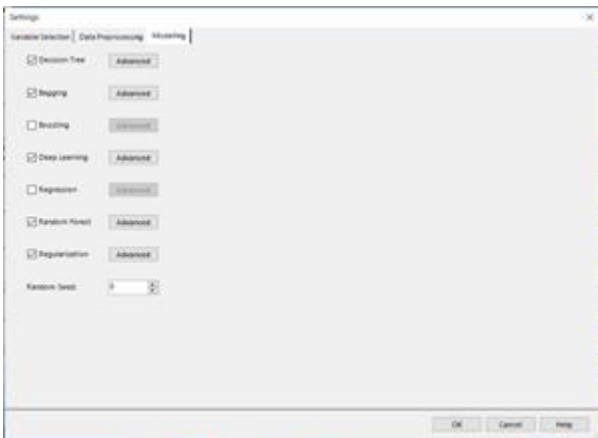
July 16, 2020

New version includes transformative enhancements for data scientists and citizen data analysts

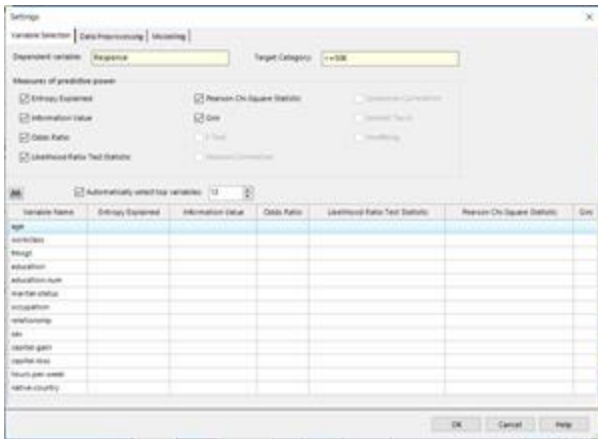
TROY, Mich., July 16, 2020 (GLOBE NEWSWIRE) -- [Altair](#) (Nasdaq: ALTR), a global technology company providing solutions in product development, high performance computing (HPC), and data analytics, has released a new version of [Altair Knowledge Studio](#) that brings even greater speed, flexibility, and transparency to data modeling and predictive analytics.



Sample of Altair Knowledge Studio's interface and workflow. In this example the model is looking to identify the Next Best Channel for a marketing campaign, using an optimization node to help identify how different changes to different variables could impact the model.



Altair Knowledge Studio's wizard will select all models, but the user can manually de-select models if desired.

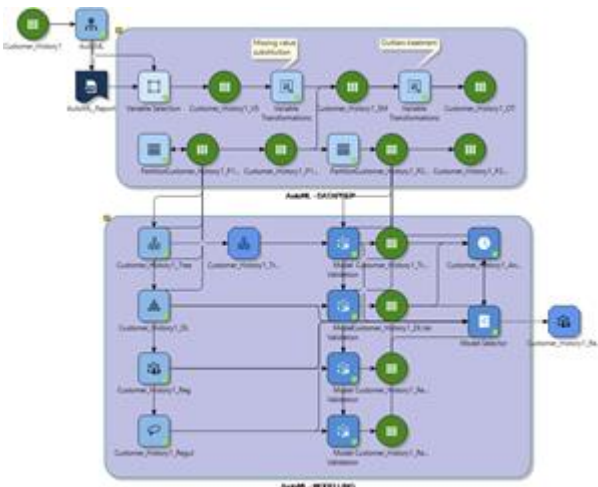


Altair Knowledge Studio's AutoML wizard automatically selects the top variables, which is useful when there are hundreds of variables. Alternatively, the user can select the number manually and select which variables to include/exclude using the checkboxes.

Model Selector Report
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Model name	
Census_DL	0.90161
Census_Regul	0.89695
Census_Reg	0.89456
Census_RndForest	0.89347
Census_Bagging	0.87715
Census_Boosting	0.87635
Census_Tree_Inst	0.86650

Altair Knowledge Studio's Model Selector Report lists the values of the selected evaluation metric for all models within the output model.



When the Altair Knowledge Studio AutoML node is connected to the source dataset, the AutoML prepares data for the ML model, automatically substituting missing values if they exist, perform variable transformations, and build out several models. Once the models are built and trained, the model with the highest rate of successful classification is identified using an Area Under Curve or AUC report.

“As a powerful solution that can be used by data scientists and business analysts alike, Knowledge Studio continues to lead the data science and machine learning market,” said Sam Mahalingam, Altair chief technology officer. “Without requiring a single line of code, Knowledge Studio visualizes data fast, and quickly generates explainable results.”

Accessible to a wide audience of business analysts and data scientists working in areas including fraud prevention, collections optimization, marketing, sales, CRM analytics, product design, and engineering, Knowledge Studio now employs automated machine learning (AutoML) to optimize the modeling process, while offering users unparalleled insight and understanding of how results are achieved.

Optimizing the entire workflow in minutes

Knowledge Studio has earned a best-in-class reputation for advanced functionality, a highly configurable approach to settings, and ease of operation. Available via Altair's flexible, units-based licensing model, the new version streamlines the entire workflow. At the outset, data is improved automatically by replacing missing values and dealing with outliers. AutoML then builds and compares many different models to identify the best available option. Compared to manual approaches, results are optimized in minutes rather than hours. Greater transparency gives citizen data scientists the opportunity and freedom to learn quickly. Improved control enables data scientists to modify models and fine tune performance.

Lifting the lid on machine learning-powered data modeling

Unlike competitive products, Knowledge Studio does not adopt a 'black box' approach that shuts out users. Fully committed to the principles of responsible and explainable artificial intelligence (AI), Knowledge Studio instead lifts the lid on the inner workings of models developed. Although models are developed automatically, explainable AI gives users the confidence that regardless of the model type, the process can be easily understood, interpreted and evaluated.

Other features new to Knowledge Studio include:

- Automated Python code generation that supports all predictive modeling – deployment-ready models can be created fast without requiring any coding skill.
- Direct data export to Altair Monarch, Altair's industry-leading data preparation tool.
- Support for R code 4.0 and higher.

For more information, visit altair.com/knowledge-studio.

About Altair (Nasdaq: ALTR)

Altair is a global technology company that provides software and cloud solutions in the areas of product development, high performance computing (HPC) and data analytics. Altair enables organizations across broad industry segments to compete more effectively in a connected world while creating a more sustainable future. To learn more, please visit www.altair.com.

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