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Iris Pro

iris PRO

An Analytics Advisory Tool

Streamline your data science process, drastically reduce time to modeling and quickly evaluate the information in your data to determine how well it supports your business analysis.

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Wasting time in your ML process?

- Identifying variables that matter can be one of the most time consuming processes in the ML process
- Training a model to only find out you missed the mark is timely and costly process

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Reduce time to answers & quickly find what matters.

- Wade through 1000's of variables quickly to find the ones that are relevant to the target
- Understand the relationship of variables in regards to the target
- Speed time in training process in building stable accurate models by using variables that matter from the beginning

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Iris Pro

Save time by cutting down your data processing and feature selection work to start building better models faster.

Iris Pro answers the following questions:

Are the answers in your data?

What other questions can your data answer?

What set of variables are required to train my model?

How are those variables related to my objective?

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Are the answers in your data?

When you need to know if your data supports your business objective.

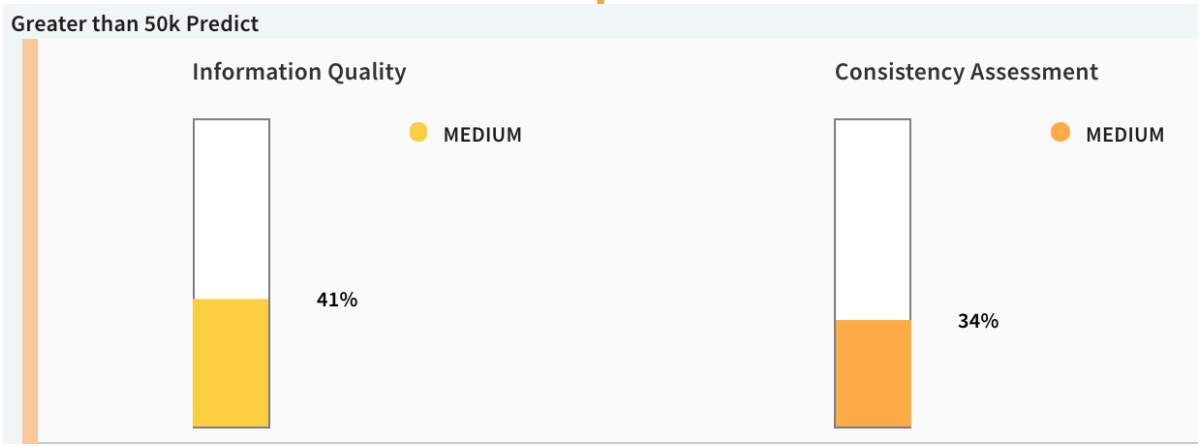
Using measures of information and consistency, Iris Pro evaluates your data's ability to build a model for your target.

Information Quality

The amount of meaningful information in your data describing your target.

Consistency

Is the information acting the same throughout, or are there hidden groups within the data.



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What variables are required to train your model?

Using methods from information theory we identify the maximum information in your dataset that explains your objective.

Finds Best Group of Variables

Removes overlapping information and noise while identifying unique contributors to your target outcome

Benefits to Approach

- Independent of variable relationship
- Scale Invariant
- Removes need to feature engineer
- Assumption Free Selection Approach
- Model Approach Agnostic

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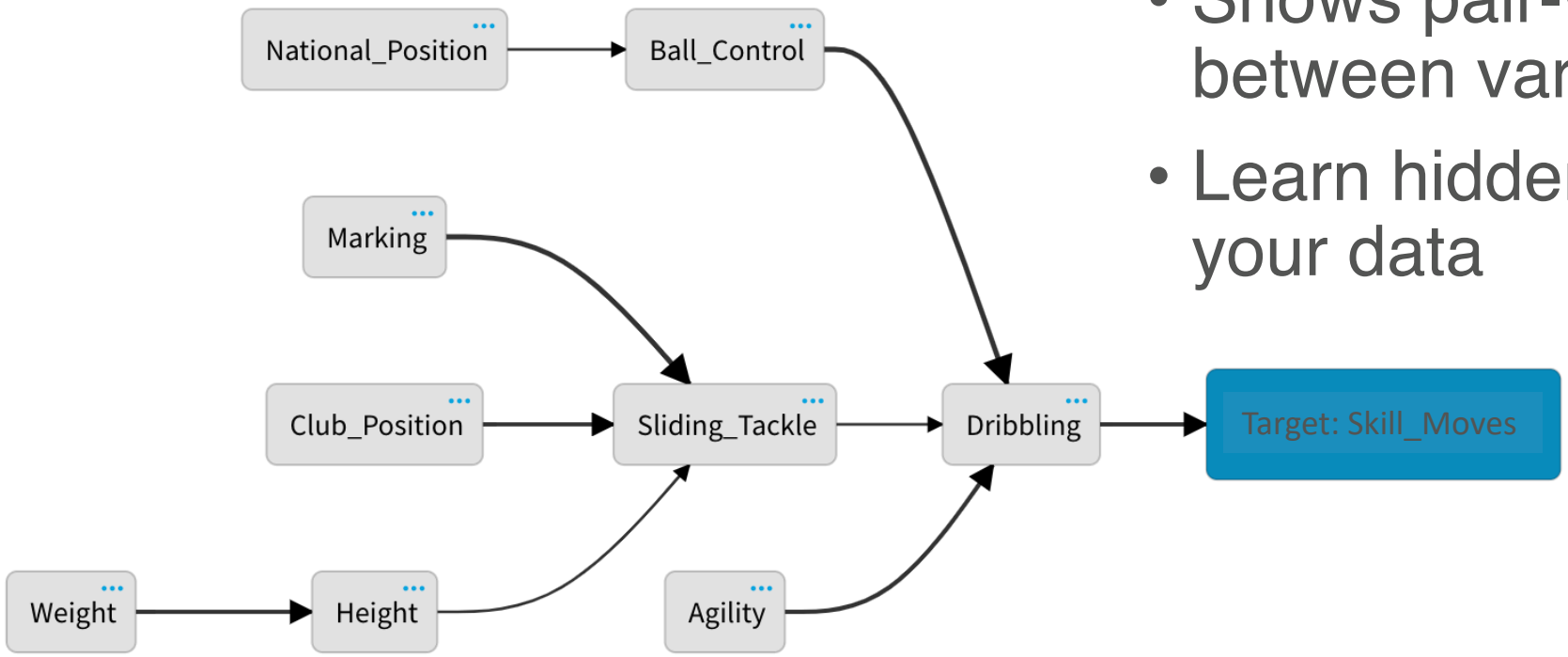
How are those variables related to my objective?



- Relationship of variables to the target objective
- Shows pair-wise relationship between variables
- Learn hidden relationship in your data

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What other questions can your data answer?

When you have data and wonder what other business objectives it can solve.

Using the same measures as before, Iris Pro identifies alternative target candidates and creates an informational graph of your data.

Central Target

The center of the information graph showing how the data relates together. May or may not be valuable for analysis.

Alternate Targets

Variables identified as good candidates to be targeted for analytical purposes.

Information Graph

A graph representing the hierarchies of relations of variables in the dataset.

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Additional value from Iris Pro

Iris Pro also identifies:

Non-Informative Columns,
Duplicate Columns, and
Proxies to the Target.

Know what you can exclude, and which columns have redundant information.

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Iris Pro UI

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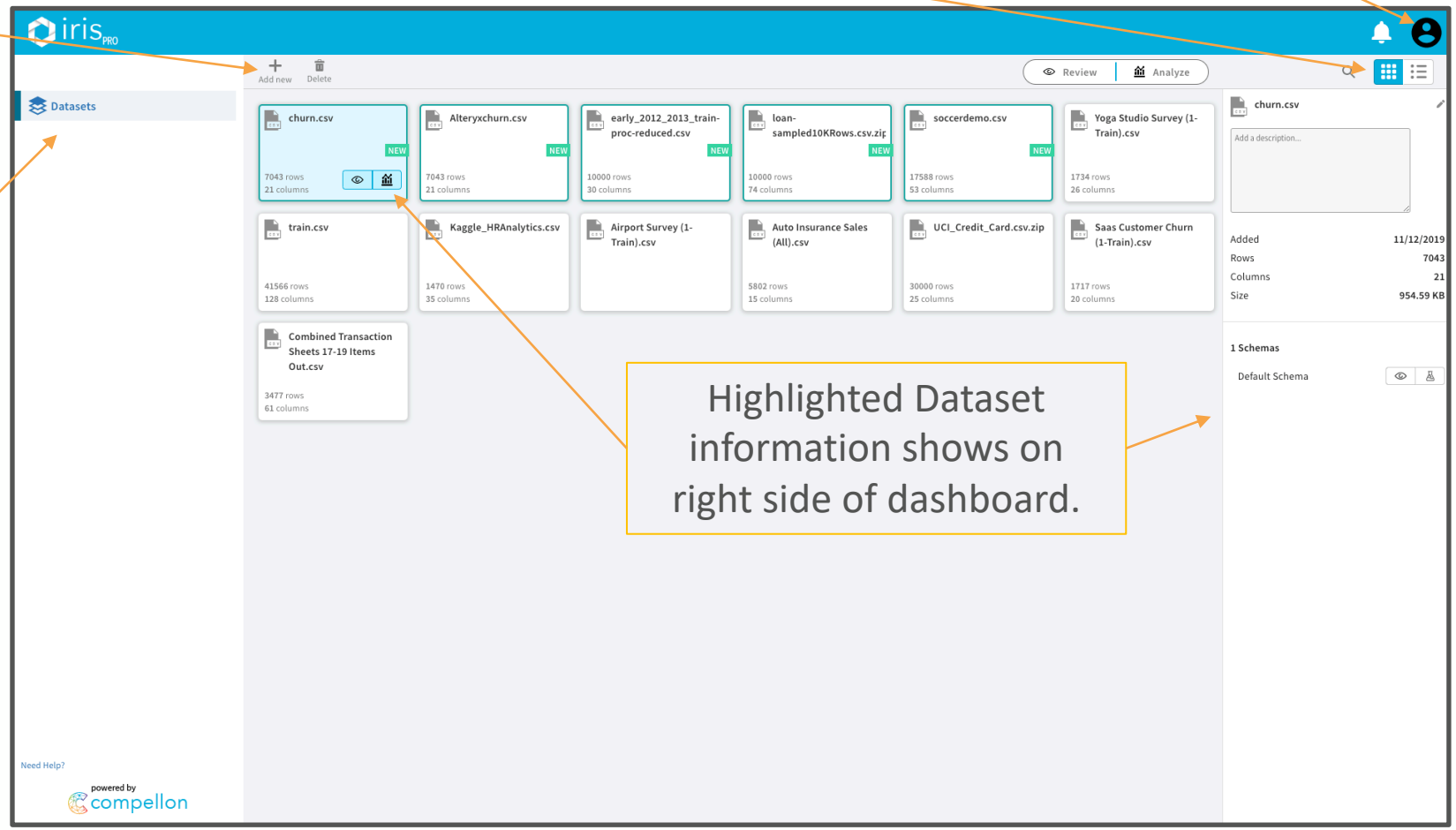
Dashboard

New datasets can be added by clicking on the plus sign on the top left of the navigation bar.

You can return to dashboard anytime by clicking "Datasets."

Datasets can be viewed by grid or list format.

To logout, click here.



Highlighted Dataset information shows on right side of dashboard.

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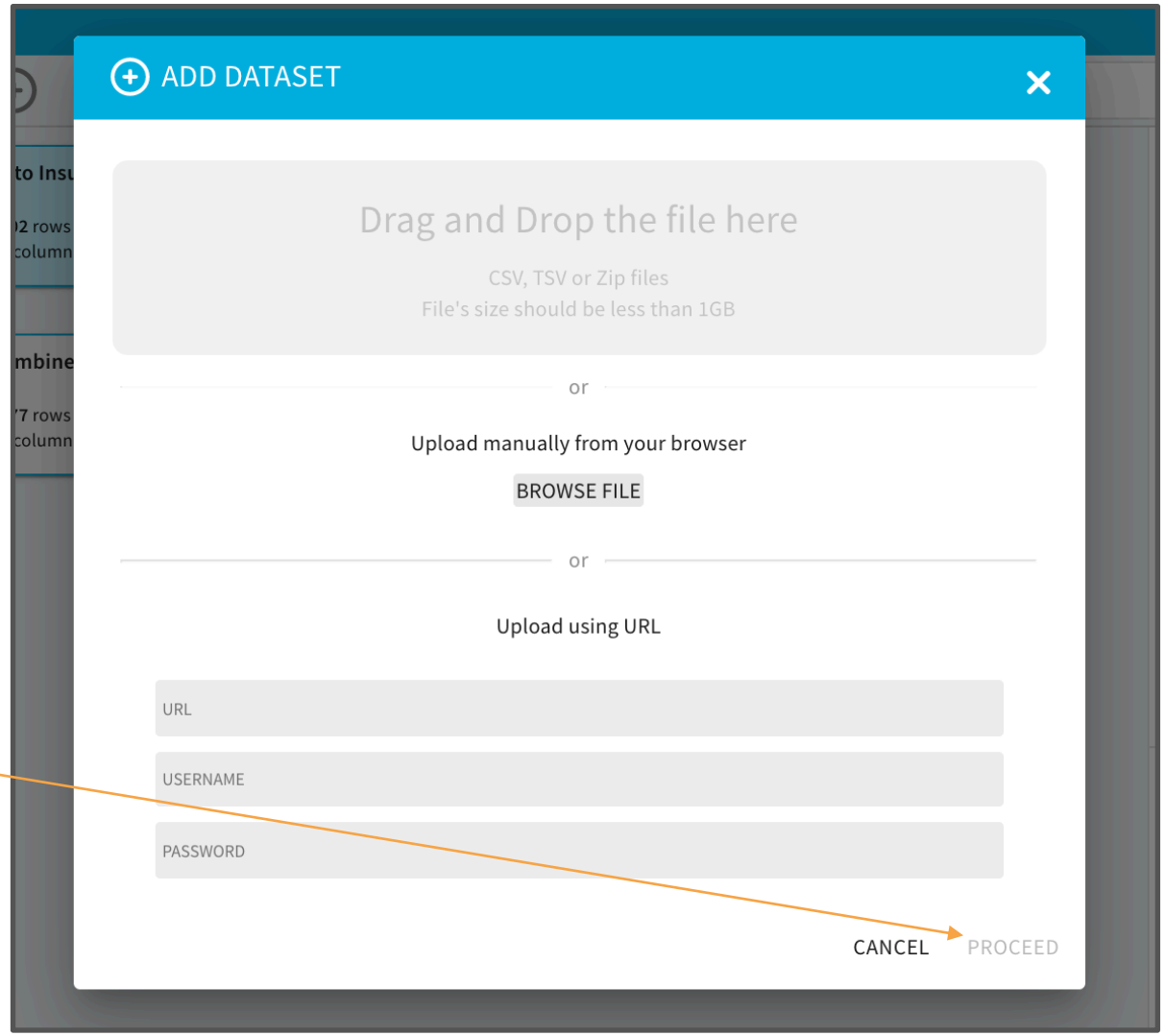
Dataset Upload

New datasets can be added using drag and drop, manual upload, or via URL.

We recommend Zip files for best upload.

Once your file is chosen, click on the “Proceed” button



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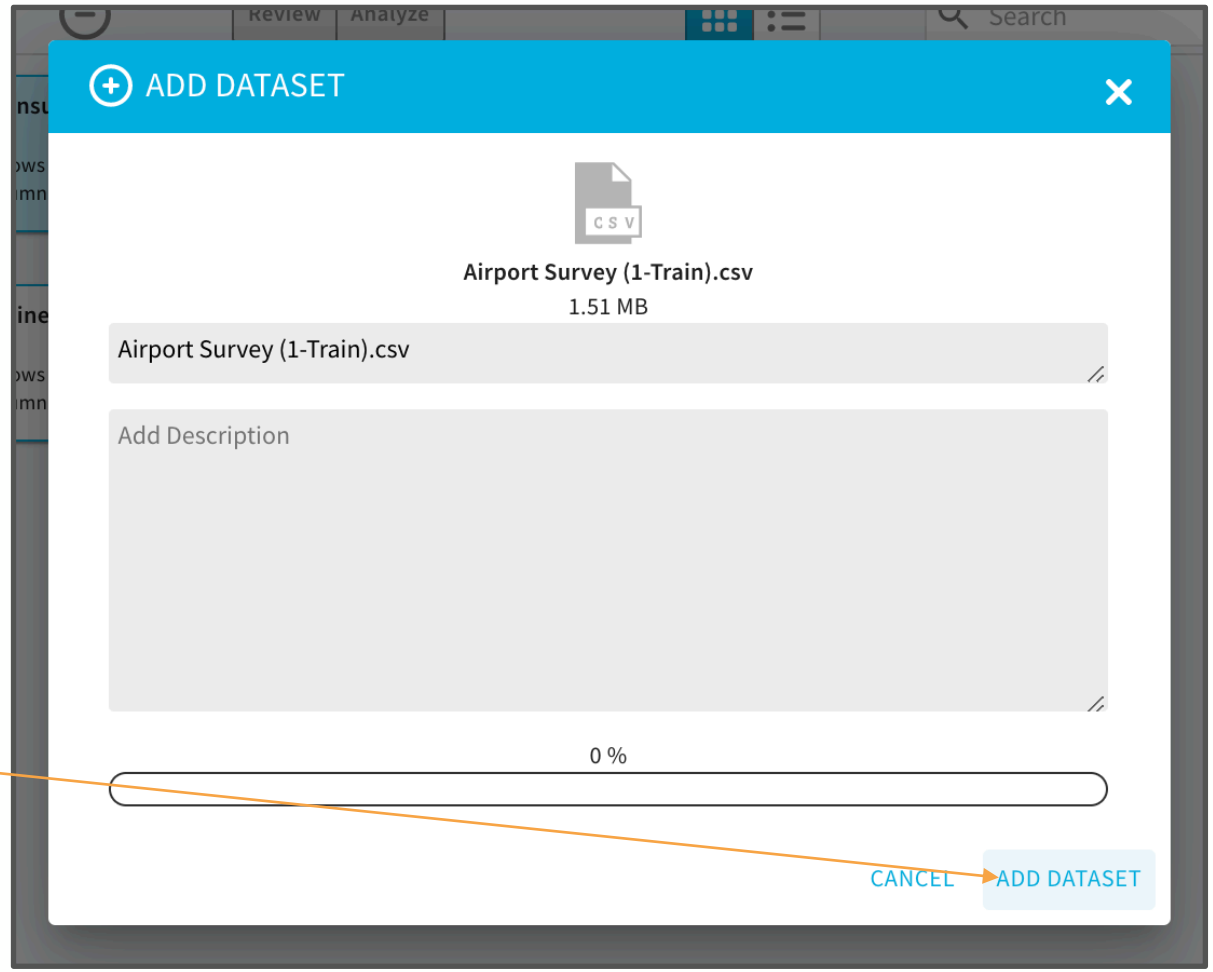
Dataset Upload

The second modal is where you can rename your file and add a description. You also have this capability on the dashboard.

Once you have made any edits, click on the “Add Dataset” button to trigger the upload.



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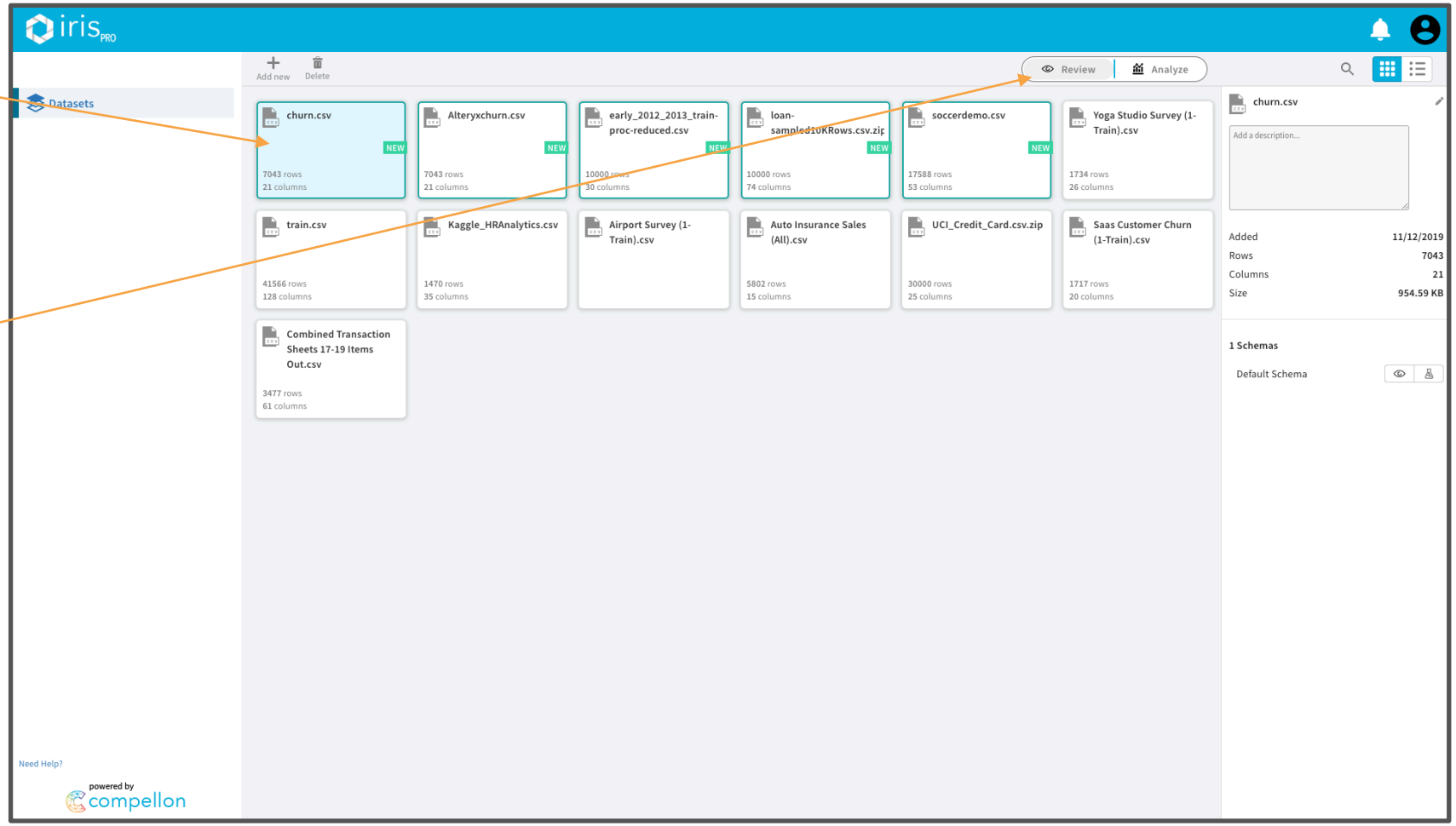
Reviewing Datasets

Select the dataset you wish to review, it will highlight in blue.

Click on “Review” button in navigation bar to move to review page.



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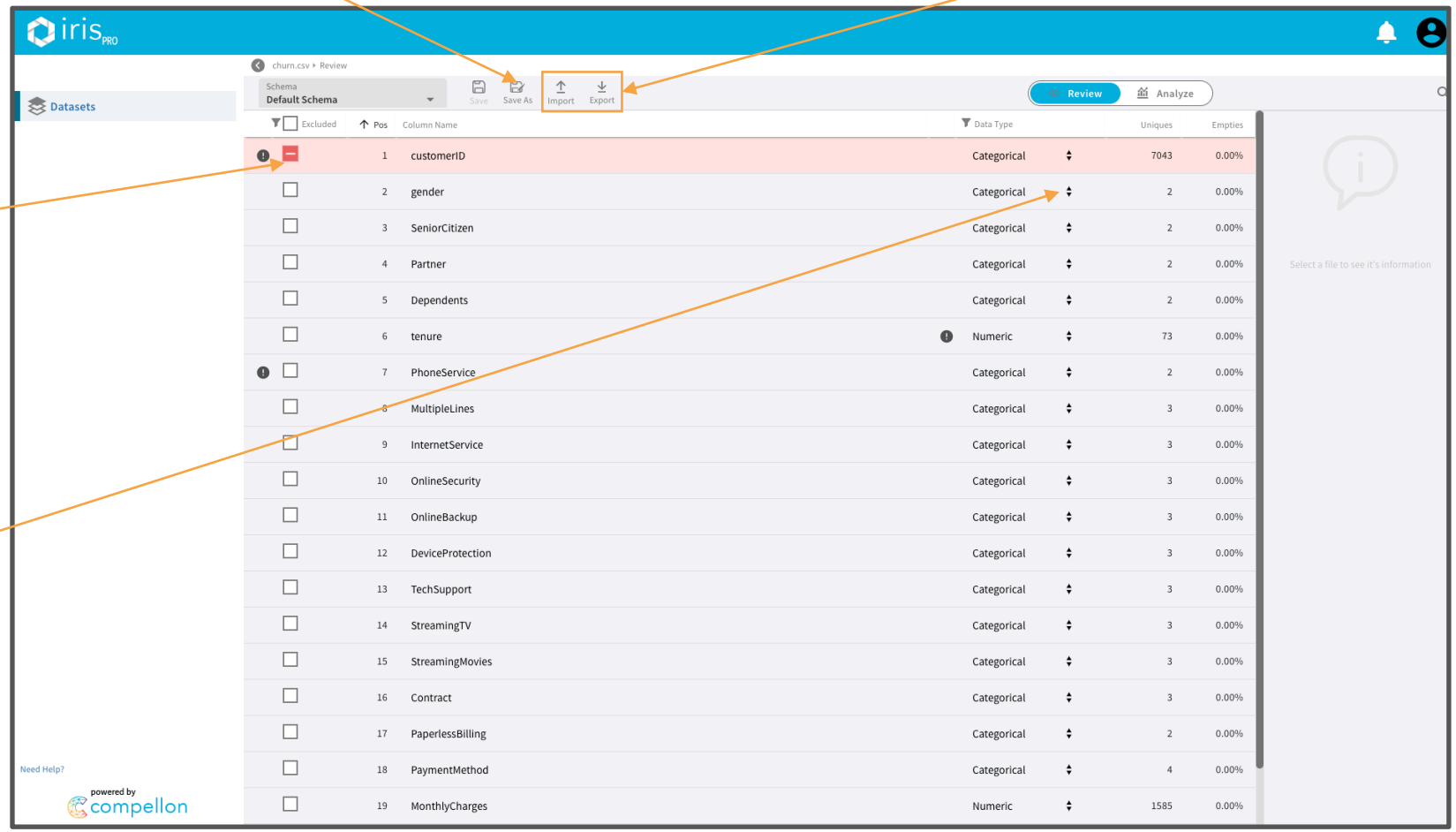
Review Schema

Once all changes are made, save schema by clicking save as icon in the navigation bar.

You can also import and export schemas here.

You can exclude any columns that are overly unique, redundant or unnecessary information by clicking on the exclude box on the left. Excluded columns will highlight as red.

Review column data types. Click on the drop down arrows to change the data type.



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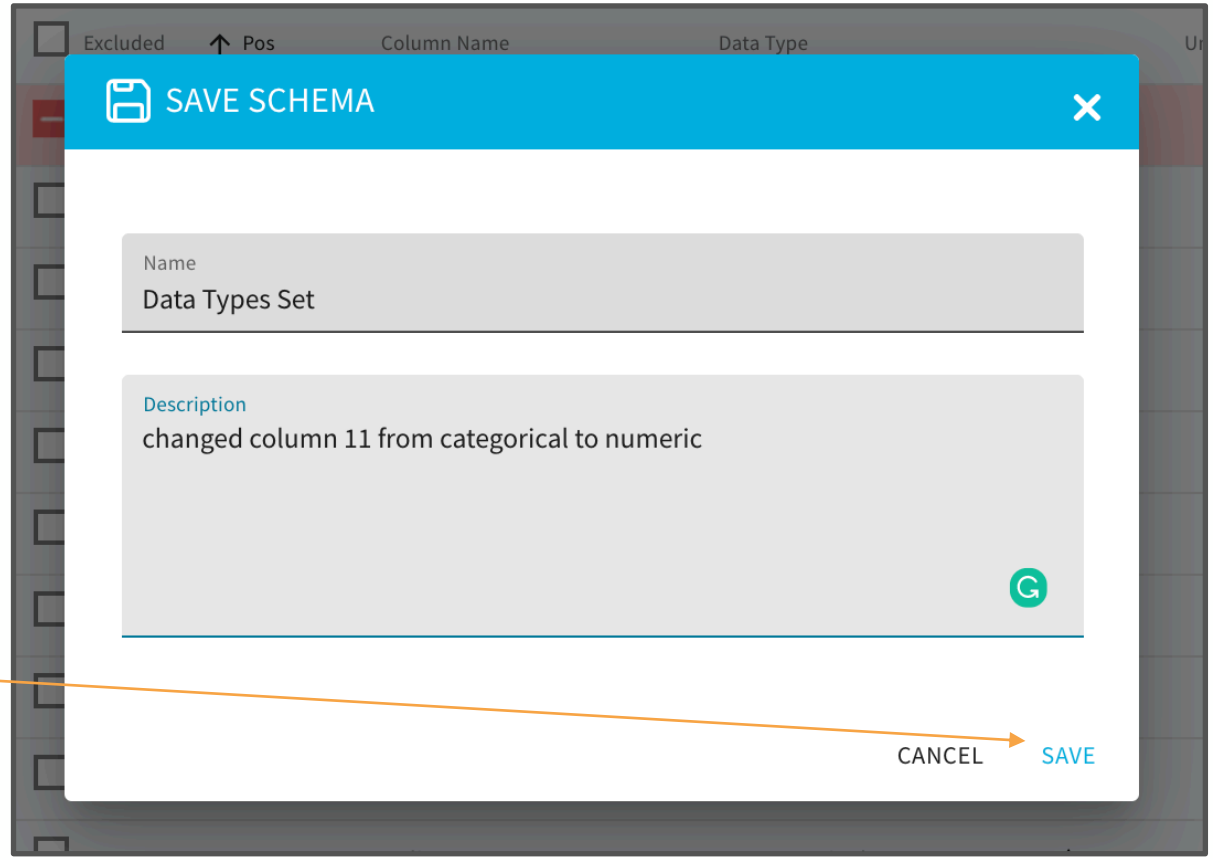
Saving a Schema

You need to name your schema and, if needed, to add a more detailed description.

After your edits, click on the “Save” button.



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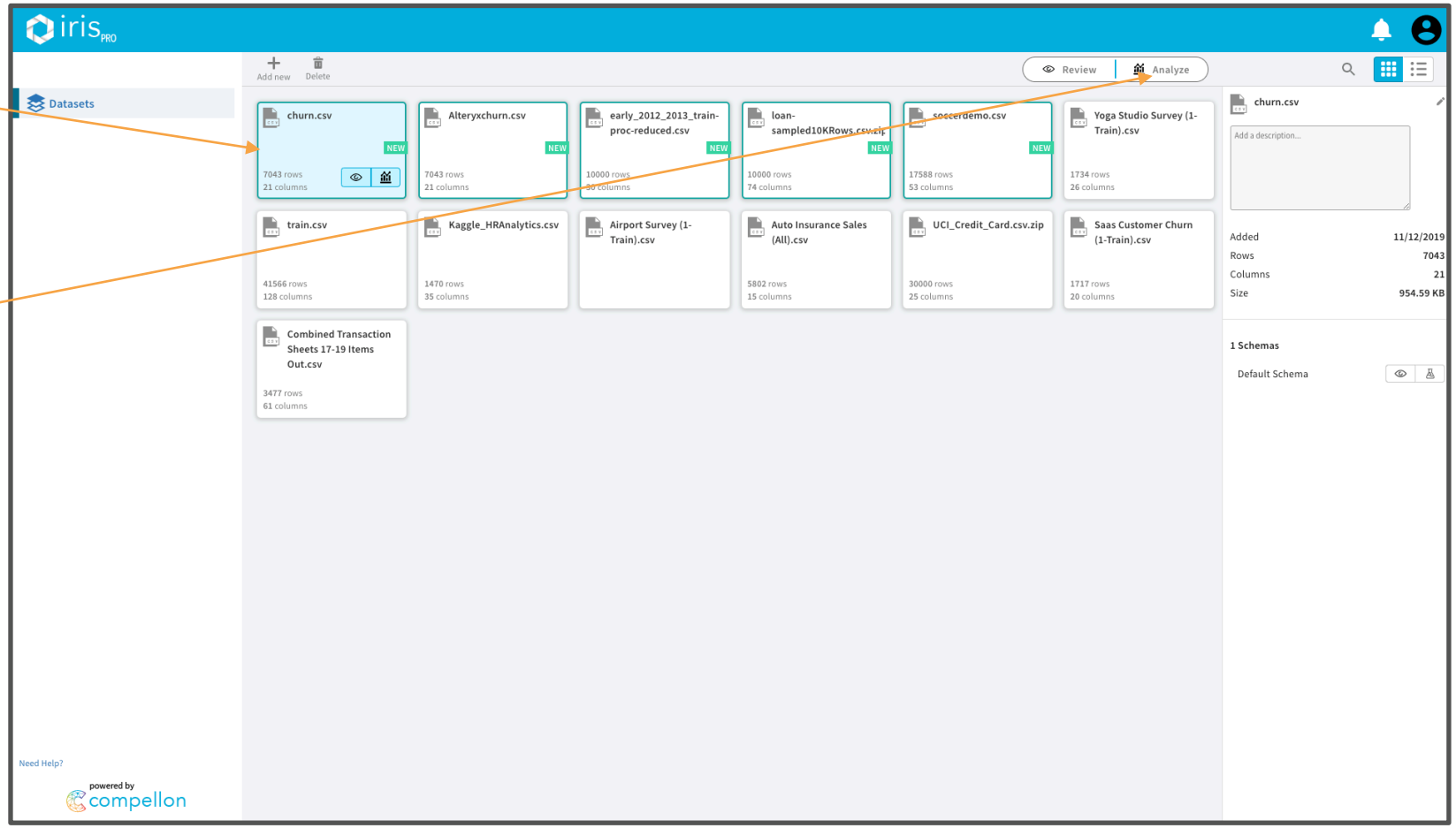
Run an Analysis

Select the dataset you wish to run your analysis on, it will highlight in blue.

Click on “Analyze” button in navigation bar.



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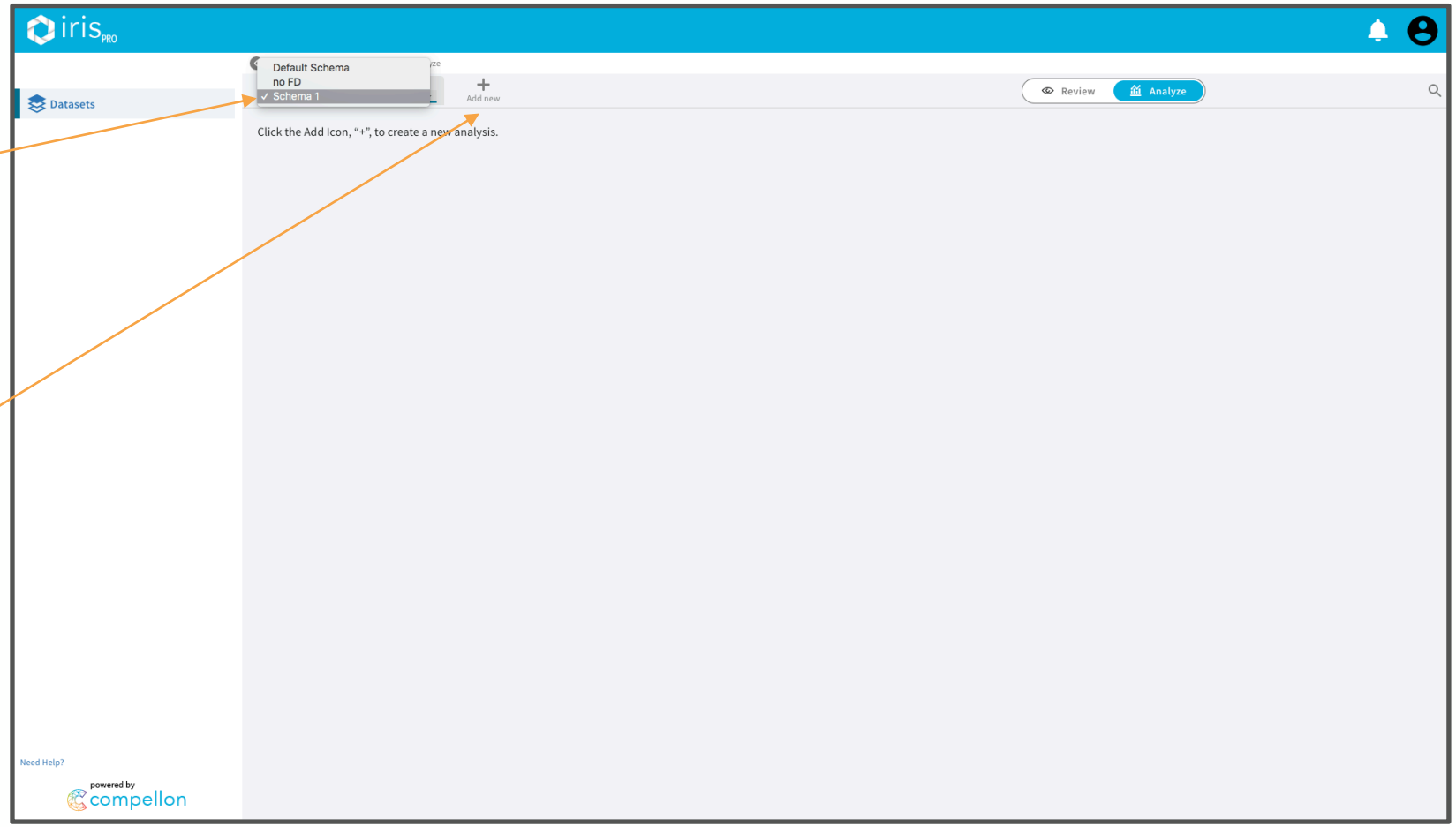
Run an Analysis

Select the schema you wish to apply from the Schema drop down list. If you didn't make any changes it will say "Default Schema"

Click on the plus sign to add new analysis.



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Run an Analysis

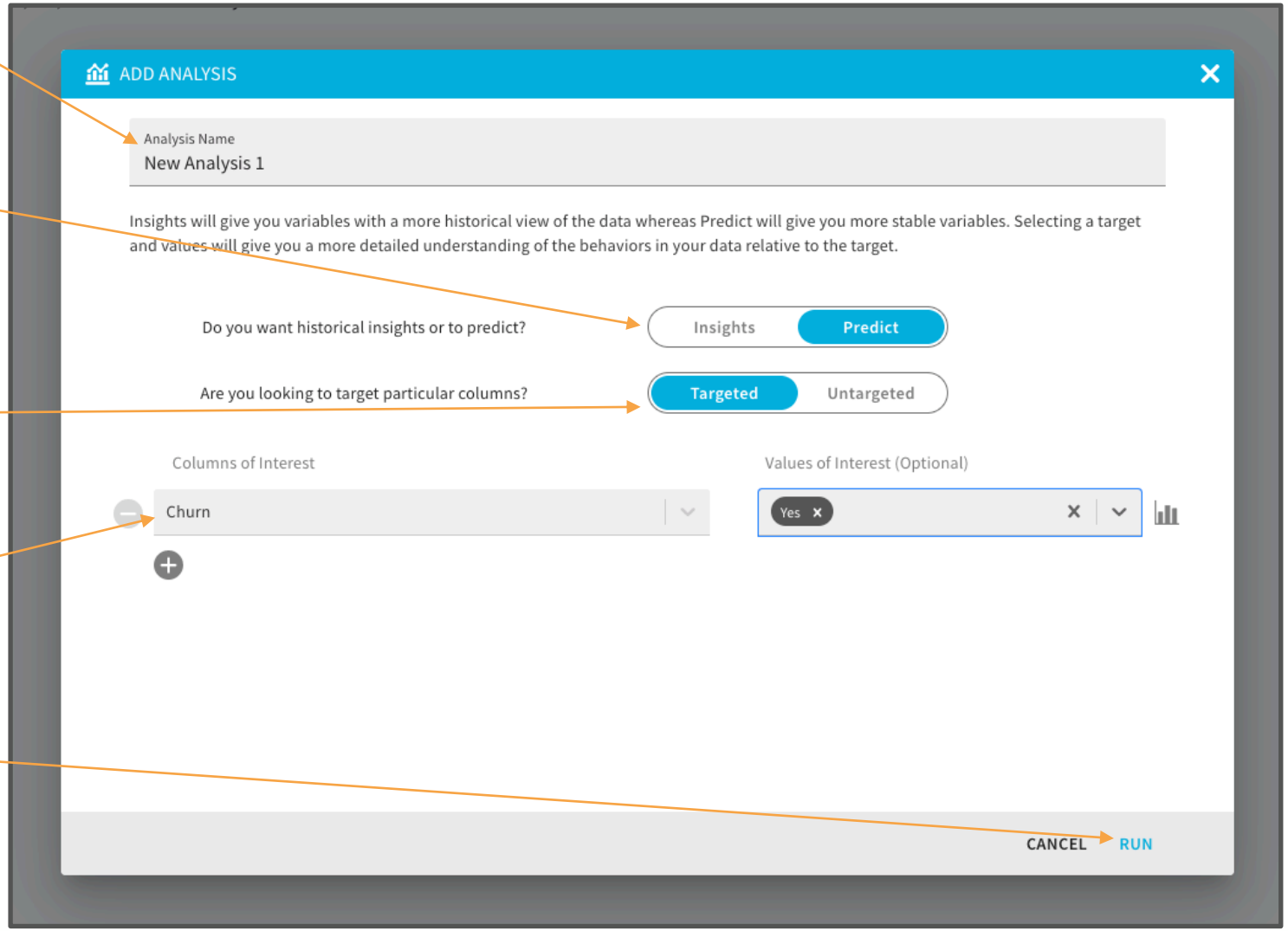
Name your analysis

Choose objective of analysis: Insights (historical, less stable) or Predict (forward looking,more stable)

Choose type of analysis: Targeted or Untargeted

Pick your target column and value. To add more than one click the plus sign.

Click on “Run”



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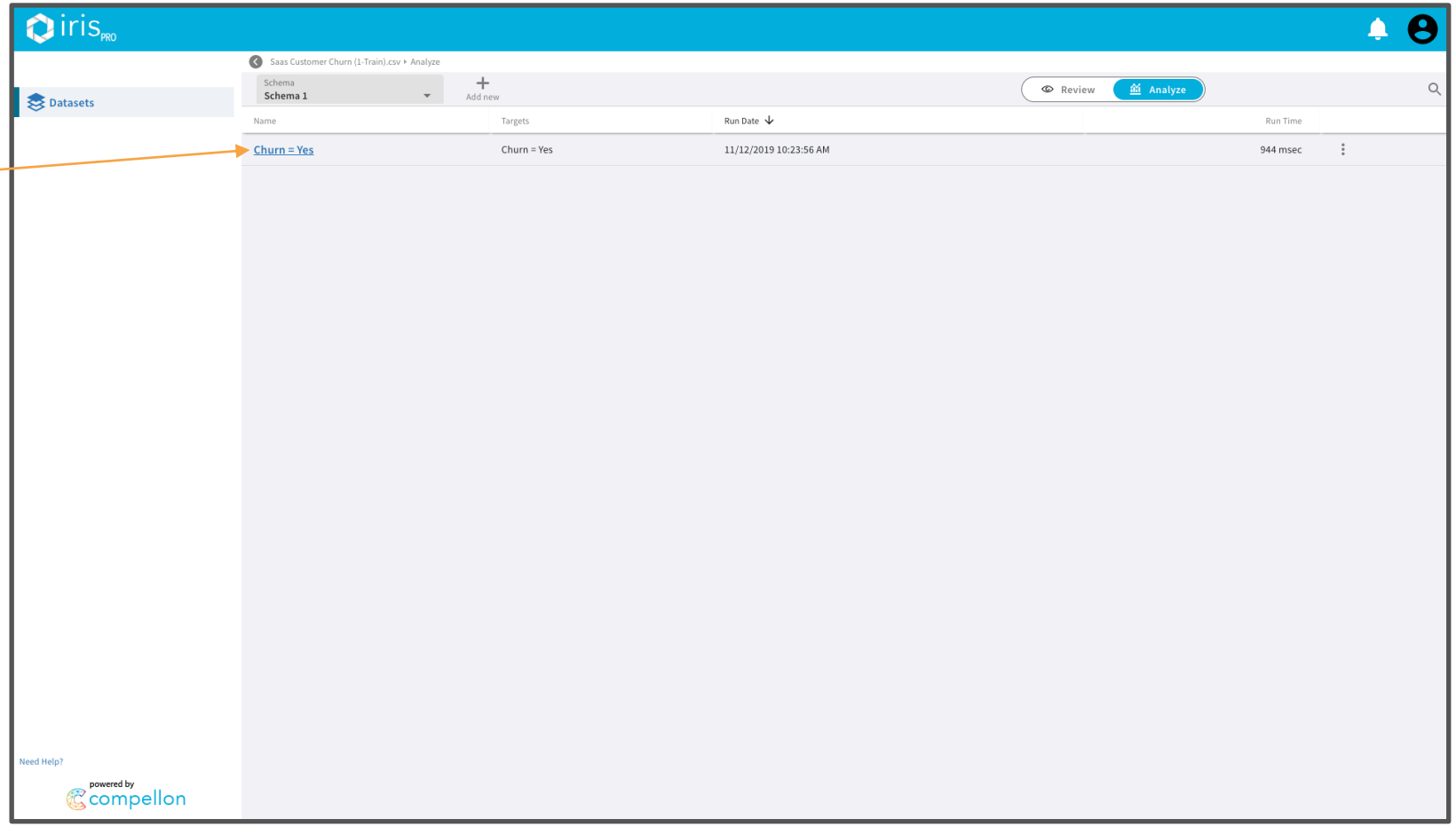
Review an Analysis

Analysis will show up on Analyze page.

Click on Name to see results



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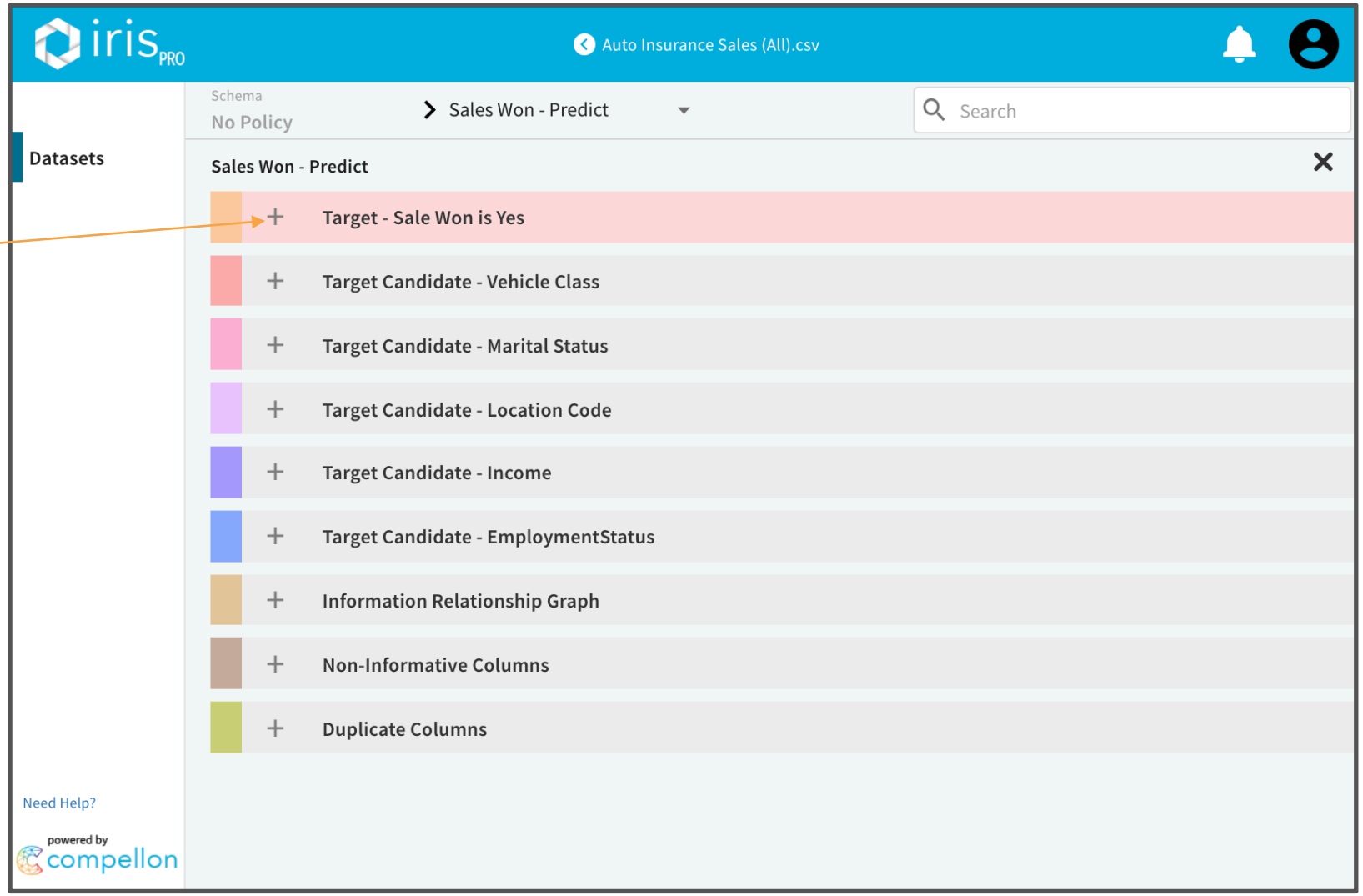
Review an Analysis

Here are the outputs of your analysis.

Click on the + to expand each segment.

Your identified target(s) will always be at the top.



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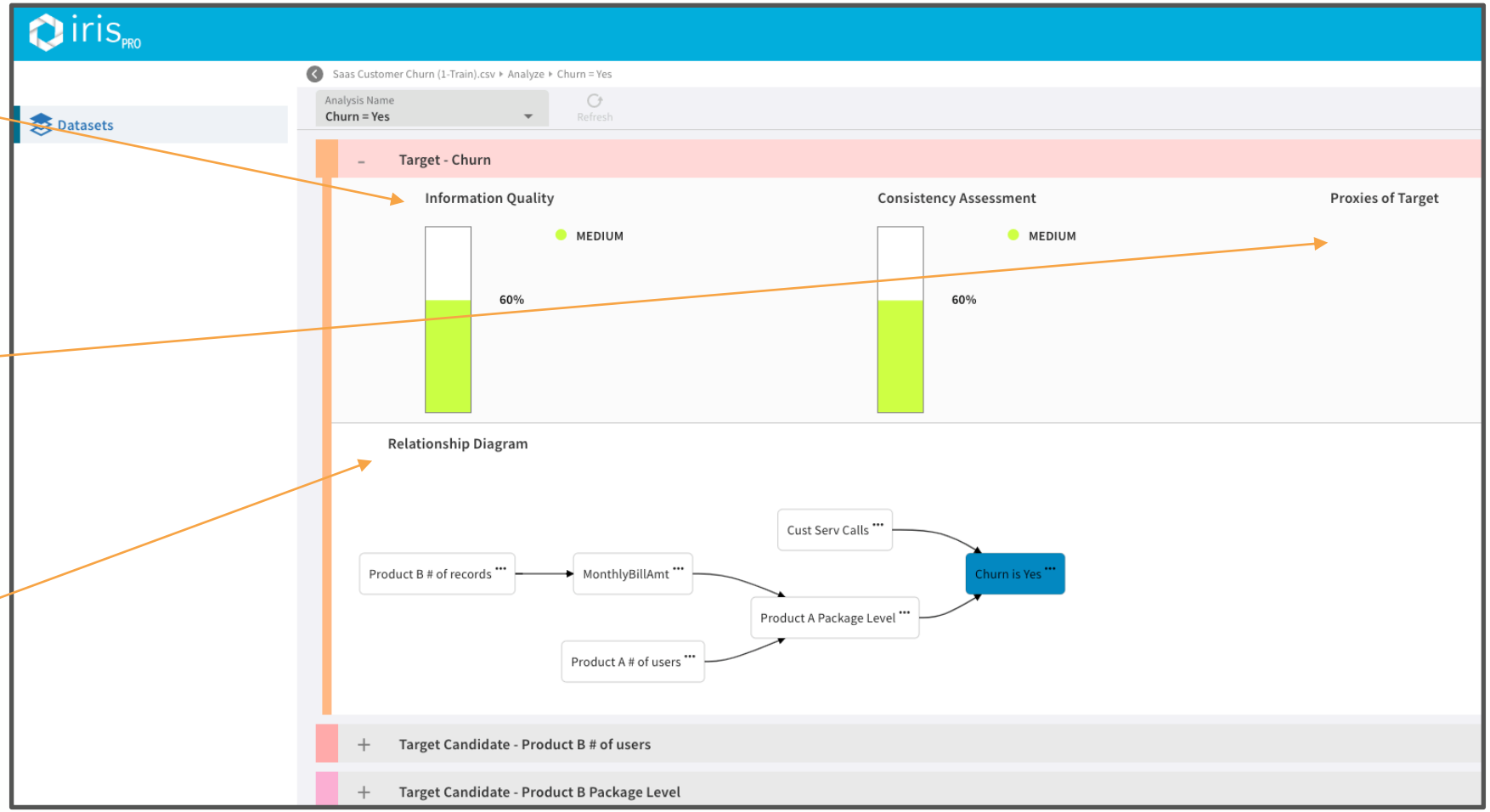
Review an Analysis

For every user identified target or target candidate Iris Pro identifies measures of Information Quality and Consistency.

Any proxies of the target will be listed on the right

The best group of variables in your dataset that describe the target are represented in the Relationship Diagram.



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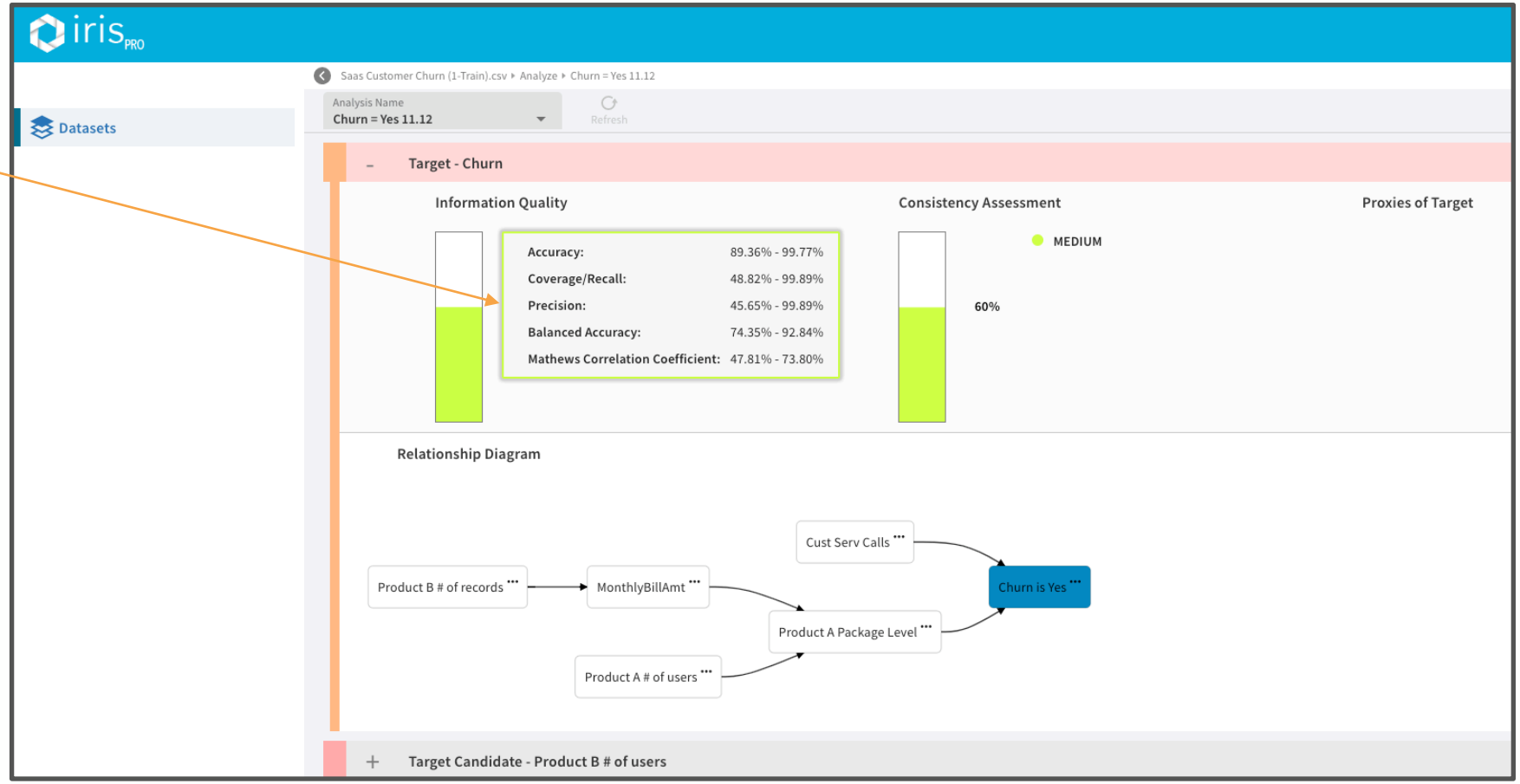
Review an Analysis

If you hover over the Information Quality bar the estimated model quality metrics will appear

These statistics give you the



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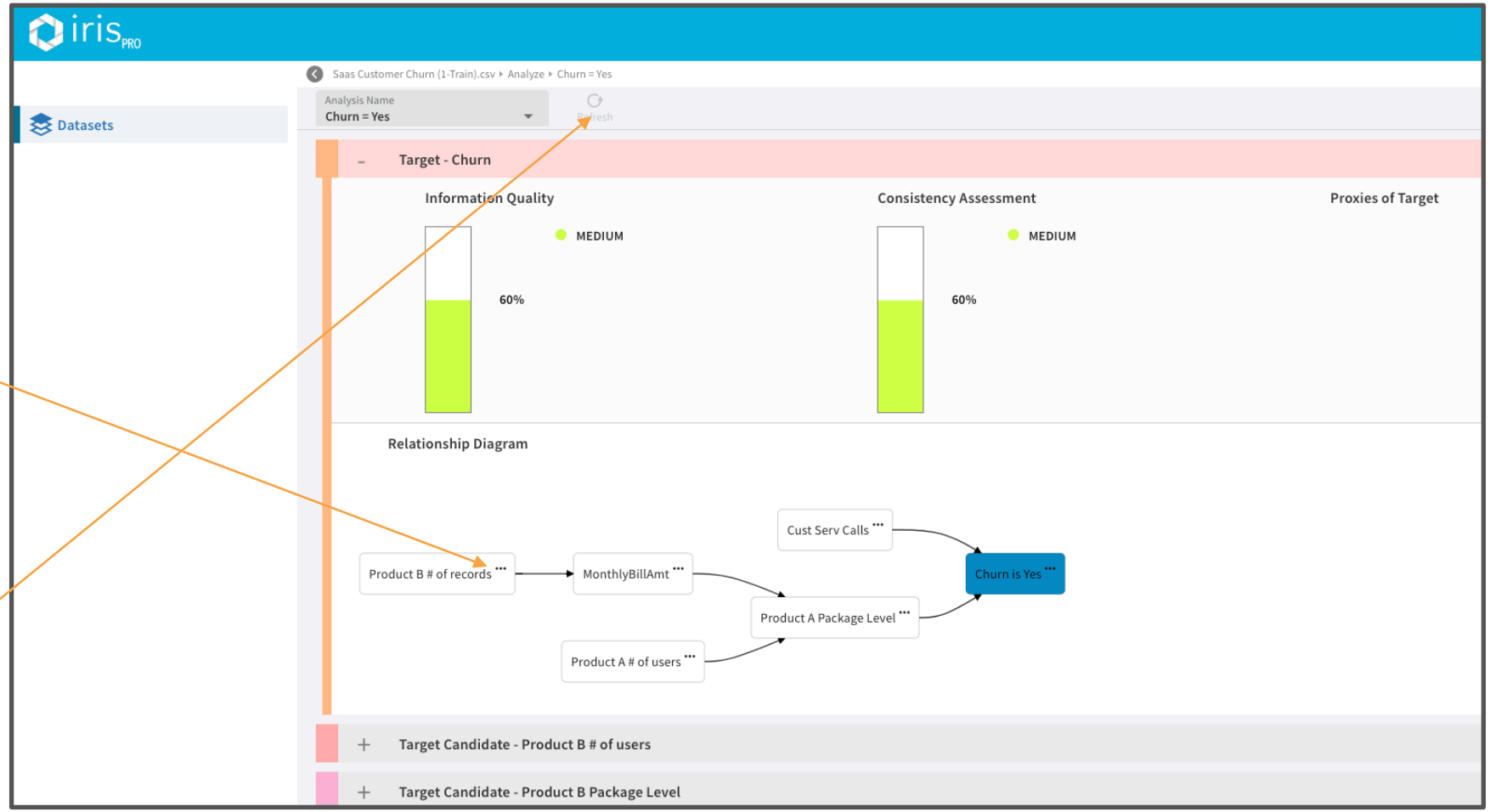
Review an Analysis

You can exclude any variable that is shown by clicking the three dots ,then “exclude”

Then Refresh the analysis to see results with new exclusions



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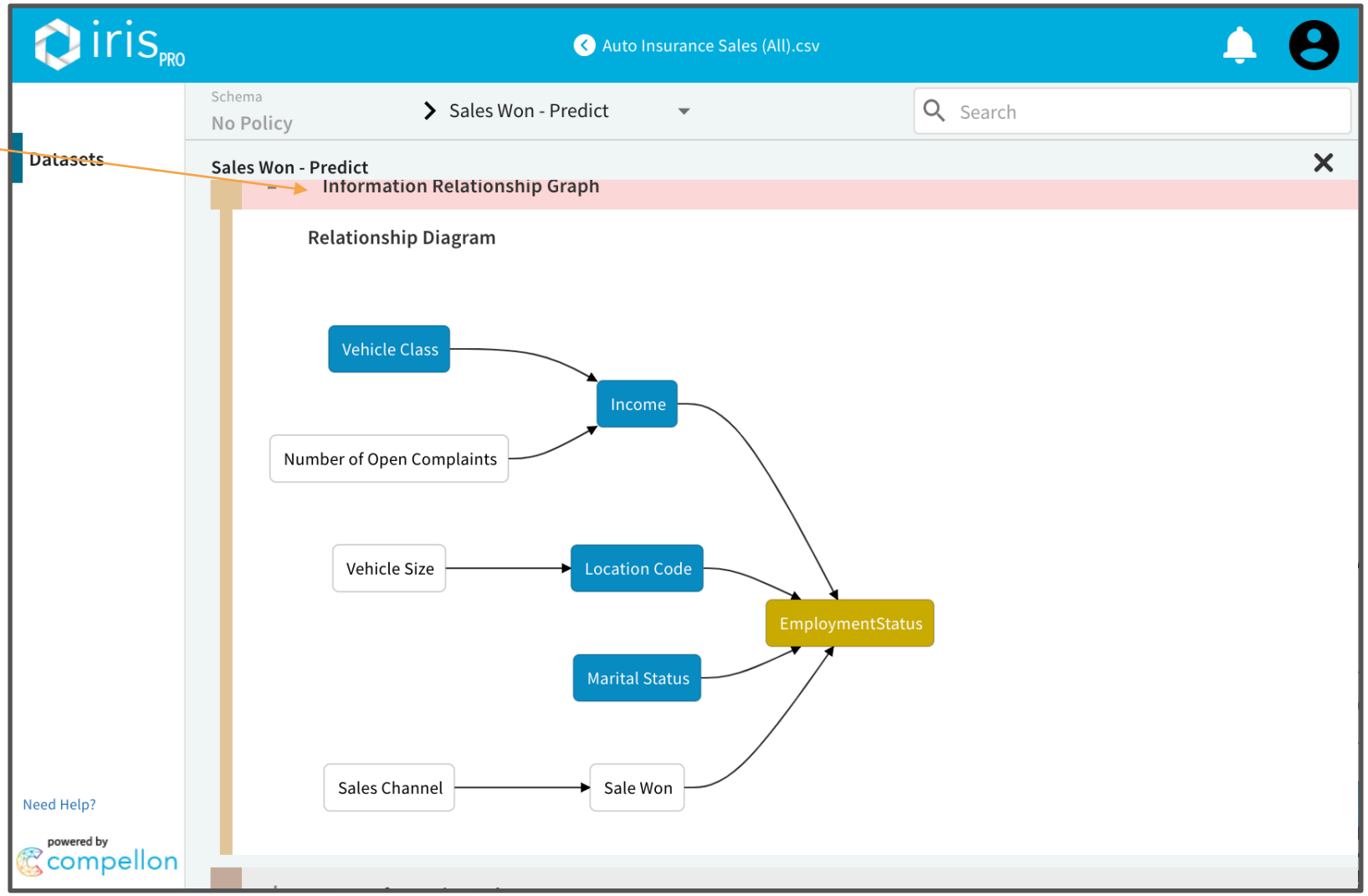
Review an Analysis

The Relationship Diagram for the entire data set can be found under “Information Relationship Graph”



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