

Predictive Influencers - Release 11.2018

This is an overview of a patch release taking place in mid-November, including improvements made to overall influencer coverage, additional performance monitoring, and some minor bug fixes.

Increased Influencer Coverage

Introducing: Default Influencers by Credit Range

The first version of the Predictive Influencers feature was designed for simplicity and visibility—the influencers that were displayed on each student profile were limited to a curated list of default predictors applied across the membership. While these influencers were chosen based on their prevalence and understandability, we heard feedback from the membership that a standardized list of features did not align well with the full customization or dynamic nature of each institution’s model.

With this release, we have better accounted for the dynamism of the predictive model by bucketing the default influencers by how far a student has progressed in their academic journey. With this change in calculation, we have also introduced a new influencer, “**Average Outcome in Credit Range**”, to help contextualize how a student’s progression impacts both the influencers that can appear and the overall success likelihood for a student at each point in time. This feature is the inherent baseline of each model, not a variable that changes a student’s score, and all other variables are calculated around this success rate.

Please note that *the influencers that display can and will vary* based on the code version of your institution’s model, the significance of each data point in the model, and the usability of each influencer, and may not be fully comprehensive of all influencers on this list—instead, these default influencers serve as the starting point for additional iteration and refinement based on your institution’s unique model.

Past Default Influencer List (for all students):

- Cumulative GPA
- GPA Trend
- High School GPA
- Proportion of Transfer Credits
- Average Outcome in Major
- Percentile Rank in Major
- Earned to Attempted Credit Ratio
- Lifetime Accumulated Credits

New Default Influencer List:

Students with 0 Accumulated Credits:

- Average Outcome in Major
- High School GPA
- First Generation Status
- In State Residency Status
- Lifetime Transfer Credits
- Student Age at First Term
- Current Credits per Term
- Average Outcome in Credit Range
- Transfer Status
- SAT/ACT Percentile

Students with 1-60* Accumulated Credits:

- Cumulative GPA
- High School GPA
- Proportion Transfer Credits
- Average Outcome in Major
- First Term GPA
- D/F Count
- Earned Attempted Credit Ratio
- GPA Trend
- Lifetime Accumulated Credits
- Average Credits per Term
- Average Outcome in Credit Range
- Transfer Status

Students with 61-120* Accumulated Credits:

- Cumulative GPA
- Proportion Transfer Credits
- Average Outcome in Major
- D/F Count
- Percentile Rank in Major
- Earned Attempted Credit Ratio
- GPA Trend
- Lifetime Accumulated Credits
- Average Credits per Term
- Average Outcome in Credit Range
- Transfer Status

Students with 120+* Accumulated Credits:

- Cumulative GPA
- Proportion Transfer Credits
- Average Outcome in Major
- D/F Count
- Percentile Rank in Major
- Earned Attempted Credit Ratio
- GPA Trend
- Lifetime Accumulated Credits

*The credit ranges listed here are the default settings for four-year institutions. Any customization of your credit ranges during the predictive model training process will be appropriately reflected here ([Example](#): two-year institutions should expect to see credit ranges for 1-30, 31-60, 60+).

Improving: Variable Quantity and Quality

In order to ensure that every student profile displays a robust list of influencers, we have also **expanded the list of potential variables** to every feature in the feature set (the data used to train the predictive model). If a model does not contain one of the default features or if a student does not have a value for that feature, instead of losing an influencer, the code will look to fill that gap based on other predictors used in the model training.

Features are also included based on the **version of model code** used to train the model. This improvement will ensure that the influencers evaluated for display are aligned with the features used in that particular model version's code.

This release will also help to **reduce the number of counterintuitive** influencers (influencers where the success likelihood is not correlated with the impact measure) as influencers are now calculated on a population-by-population basis based on credit range, as opposed to the entire institution.