

Robot Screener

Robot Screener is type of Dual Screening where one of the traditionally human reviewers is replaced by an automated substitute.

Enabling Robot Screener

Robot Screener may be enabled from Screening Settings. When Dual Screening mode (standard or two pass) is switched on, Robot Screener can be switched on under "Screening Model". Before Robot Screener can be enabled, the nest must:

- Be configured for [Dual Screening and Adjudication](#)
- And contain **50** adjudicated *records* (i.e. having a final screening decision: included or excluded)
- And contain **10** included records

The latter two requirements help ensure a minimum model accuracy; however, the model will usually be suboptimal with this volume of training data, and typically improves as more records are screened.

By enabling Robot Screener, automatic updating to the screening model is made non-optional, as is the hiding of inclusion probabilities. This avoids biasing human reviewers with data already being used by Robot Screener.

When switching on Robot Screener, you will see the below modal. In red are the actual numbers of adjudicated and included records compared to the numbers you need to meet in order to Enable Robot Screener:

Robot Screener

Robot Screener automatically adds a reviewer-level screening decision to records with:

- Fewer than 2 reviewer-level screening decisions
- No adjudicated screening decision

This is performed on an ongoing basis; as you import new records, they will be robot screened. Robot Screener automatically improves the screening model as you adjudicate more records. It updates its past decisions, for records not yet adjudicated, with the new & improved model.

To enable Robot Screener, your nest must contain 50 adjudicated screening decisions (actual= 98) and 10 inclusions (actual= 21). Learn more about Robot Screener in [our docs](#).

Close

Enable Robot Screener

In Action

Which Records

Robot Screener automatically adds a reviewer-level screening decision to records with:

- Fewer than 2 reviewer-level screening decisions
- No adjudicated screening decision

Records it excludes will assigned the exclusion reason Robot Excluded in all cases.

When

Robot Screener adds/updates its screening decisions when:

- Robot Screener is enabled
- A new inclusion model is trained
- New records are imported into your nest
- 10 additional records have been adjudicated, since the model was last trained

As pointed out above, Robot Screener will not modify its decision on a record after that record has been adjudicated. Prior to adjudication, its decision on a record may be modified, reflecting more information available to it & improvement in its accuracy.

Usage Guidance

Robot Screener, by accuracy, is not a replacement for a human reviewer. It should typically be used for reviews where budget, team size, or time available are restricted. Some additional usage tips:

- While Robot Screener may be enabled at 50 adjudicated / 5 included records, we typically advise not enabling it until a cross validation AUC of 0.7 or greater is achieved.
- Avoid use of the “Auto-adjudicate” button, especially early on. The model (and human reviewer) should be subject to scrutiny. This will improve the quality of your review, reduce later reworks, and produce better training data for Robot Screener.

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