

# How to : test a new feature for the model

*Note : links below send to the Novecare (CS) project, but equivalent objects exist in the SpP one also.*

Refer to [this article](#) for the branch management part, including creation, rebase and merge of the branch.

Once the branch is created :

1. Launch a **first run** up to the [weights model](#) on its own version (update "versioning\_version\_name" variable).
2. **Prepare and merge** the new column in the "[Data preparation](#)" Flow zone.
3. Make sure to include it in the right **category** in the [variables](#) (numerical\_features, categorical\_features, ordinal\_features).
4. Filter out values using the "**preprocessing\_filters**" variable if needed.
5. Impute values using the "**imputers**" variable if needed.
6. Check the "**Correlation\_analysis**" [notebook](#) to make sure the new feature is not highly correlated with another one.
7. Launch a **second run** up to the [weights model](#) on its own version (update "versioning\_version\_name" variable).
8. Check the models [R2](#).
9. Use the "**SHAP version comparison**" [notebook](#) to compare the SHAP values between the two runs.
10. If the feature seem important and the business agrees to keep it, **finish the run** (until final output) and provide results for validation.
11. Check that the [volume curves](#) are still fine.
12. If this development is prior to a release, check **group volume adjustment** [notebook](#) and update the list of families to use it on on the variables.
13. If this development is prior to a release, conduct [hyperparameter optimization](#).
14. [Rebase and merge](#) the branch back to dev and rerun entirely there to keep the history of the version.