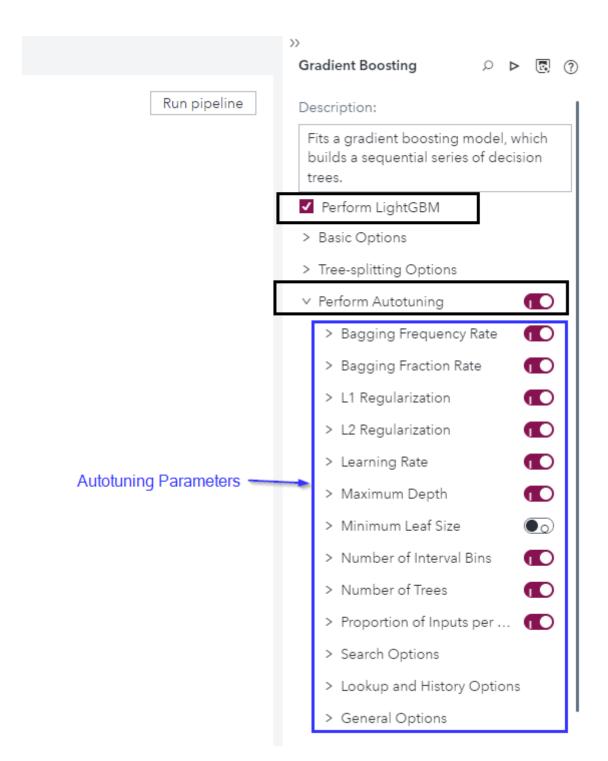
## **Autotuning for LightGBM in SAS Model Studio**

- 1. Go to SAS Model Studio
- 2. Click New project
- 3. Give the project a name, e.g. HMEQ LightGBM Autotune
- 4. As the type select Data Mining and Machine Learning
- 5. As the template select Blank template
- 6. For data select the HMEQ dataset that can be created with the Load HMEQ Utility script
- 7. Click Save
- 8. In the Data tab select the variable BAD and change its role to Target
- 9. Go to the pipelines tab, right click the *Data* node and select *Add child node > Supervised Learning > Gradient Boosting*
- 10. Check the Perform LightGBM box and toggle Perform Autotuning



- 11. If you want to can adjust the Autotuning parameters for more information check the <u>SAS</u> documentation
- 12. Click Run pipeline, wait for the pipeline to finish and take a look at the results