Reduce both cate and numerical

Tuesday, May 7, 2024   3:02 PM

https://github.com/cornellius-gp/gpytorch/issues/2072
[Bug] Multi-input Multi-output GP with Variational Inference reporting Incorrect Variances #2072

When reduce categorical variable
Covar_module1 = cate_kernel * numerical_kernel

When further reduce cate and numerical
Covar_module2 = a single kernel

The input to covar_module1 is cat(latent_cate, original_numerical)

The input to covar_module2 is latent_total

But the task covar matrix for both covar_module1 and covar_module2 should be the same