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TABLE DES MATIÈRES

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1 CURSE OF DIMENSIONALITY AND ADAPTIVITY TO A LOW DIMENSIONAL SUPPORT

Run a simulation that illustrates the curse of dimensionality by computing the error of a nearest neighbor estimator of f^* , for f^* being the euclidean norm on \mathbb{R}^d , for several numbers of samples n and several dimensions d . For instance, you can observe a picture like the one in figure 1.

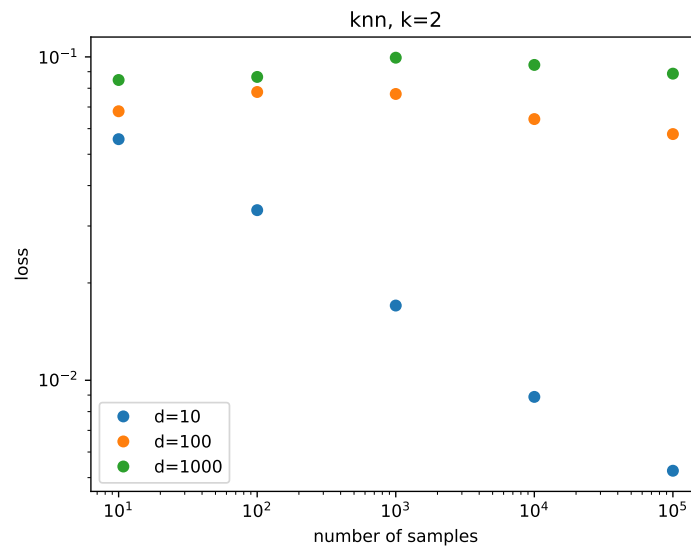


FIGURE 1 – Curse of dimensionality