Curse of Dimensionality High dimensional data; Columns -> features (dimension) Image Tool .. Higher dimension It we have more features (Sparsity rune on mat snotherwards mat the risk of massively overlitting our model - this would generally Performance decreases Conjutation Tucoreases result in terrible out of Sample yerformance. Dimensionality Reduction Solution feature exteraction Feature Selection 1) PCA 1) Forward Selection (forom given set of 2) Backword Elimination features, coreating new set of features) Higher dimensional data is 2) LDA (Linear discriminant analysis) dangerous for ML, because after a certain point, it is difficult to work 3) tshe in higher dimension. -> Image These data points will not -> Hyber dimension bely in clarifying give image.) Optimal set of features 200000 low Set of features

The Curse on ality