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The Curse of Dimensionality – 1st Aspect

- The number of training samples
- What would the probability density function look like if the dimensionality is very high?

AICIP

RESEARCH

4

For a 7-dimensional space, where each variable could have 20 possible values, then the 7-d histogram contains 20⁷ cells. To distribute a training set of some reasonable size (1000) among this many cells is to leave virtually all the cells empty

TENNESSEE























