1. Fill in the blanks with the correct answer according to the descriptions in the boxes below:

Before... when it was all about \_\_\_\_1

- Domain experts selected features
- Designed feature transforms
- Small number of more relevant features were enough

integrating everything Data generation and storage is

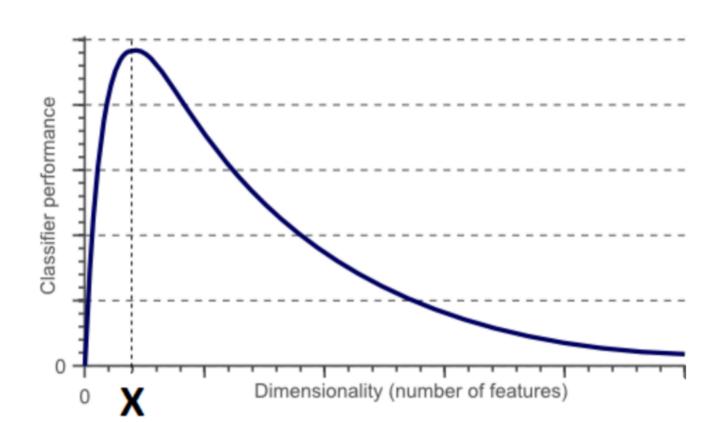
Now... 2 is about

- less of a problem
- Squeeze out the best from data More high-dimensional data having more features

1/1 point

| 0 | 1. Data mining. 2. Dimensionality reduction.  |
|---|---|
| 0 | 1. Dimensionality reduction. 2. Data Science.   |
| • | 1. Data mining. 2. Data Science.  |
| ( | Correct  That's right! The "before" and "now" of performance and resource requirements are represented respectively by the Data Mining and Data Science concepts. |

1. Data Science. 2. Data mining.



| The worst number of features for making predictions.   |  |
|--|--|
| The optimal number of features.  |  |
| The cursed number of dimensions.   |  |
| The number of features that reaches the maximum classification error.  |  |
| <ul> <li>Correct</li> <li>Exactly! The x-axis coordinate of this critical point represents the number of features required by the classifier to work at its best.</li> </ul> |  |

| 5. | The amount of training data available, the complexity of the decision surface, and the classifier type define the number of to be used | 1 / 1 point |
|----|--|-------------|
|    | O Datasets   |             |
|    | ○ Spaces   |             |
|    | O Models   |             |
|    | Features   |             |
|    | Correct That's right! These three aspects define the amount of features that will be used in a machine learning problem.               |             |

1/1 point

False

True

variables.

- ⟨√⟩ Correct
- That's right! Classification subspaces maximize the separation among classes, while regression intends to maximize the correlation between two