



Data Matrix

1 Why

2 Definition

The *data matrix* corresponding to a data set of n records which are length d tuples of real numbers is the n by d matrix whose i th row is the i element of the data set.

2.1 Notation

Let R denote the set of real numbers. Let (a^1, \dots, a^n) where $a^i \in R^n$ for $i = 1, \dots, n$. Let A be the $n \times d$ matrix whose rows are the a^i . Then A is the data matrix of (a^1, \dots, a^n) .