

A complex network graph visualization with numerous nodes and edges, rendered in shades of blue and grey, occupies the left side of the slide. The nodes are of varying sizes, and the edges form a dense web of connections.

Example: Document Analysis

Analysis of Documents

x_i = features
for document i



features

Word 1	Word 2	Word 3	●	●	●	●	Word V

Analysis of Documents

x_i = features
for document i



features

Word 1	Word 2	Word 3	●	●	●	●	Word V
11	20	10	●	●	●	●	32



number of times each
word appears in document

Analysis of Documents

x_i = features
for document i



features							
Word 1	Word 2	Word 3	●	●	●	●	Word V
11	20	10	●	●	●	●	32

number of times each
word appears in document

outcome

Liked/ Disliked
1



Analysis of Documents

x_i = features
for document i



features

Word 1	Word 2	Word 3	●	●	●	●	Word V
11	20	10	●	●	●	●	32

number of times each
word appears in document

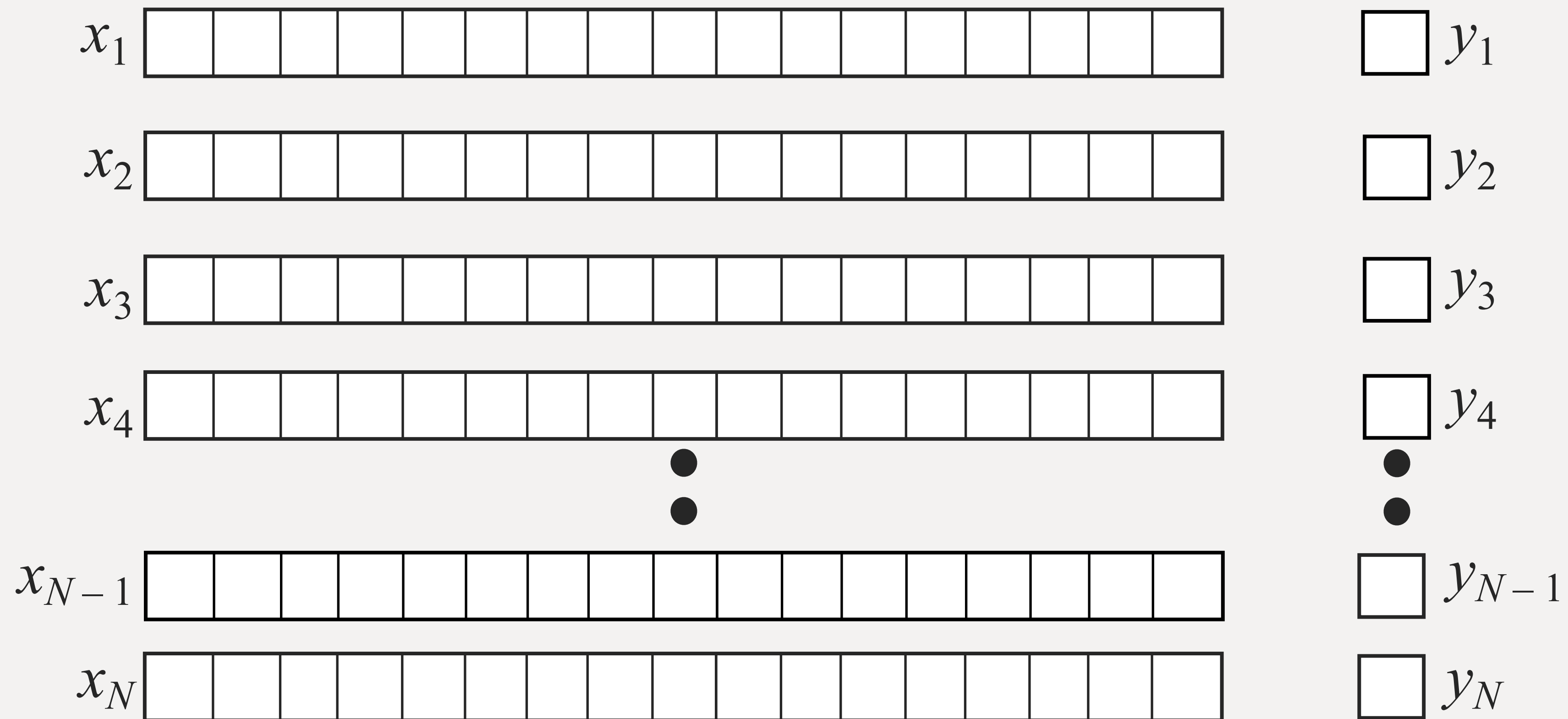
outcome

Liked/ Disliked
1

$y_i = 1$, like
 $y_i = 0$, dislike

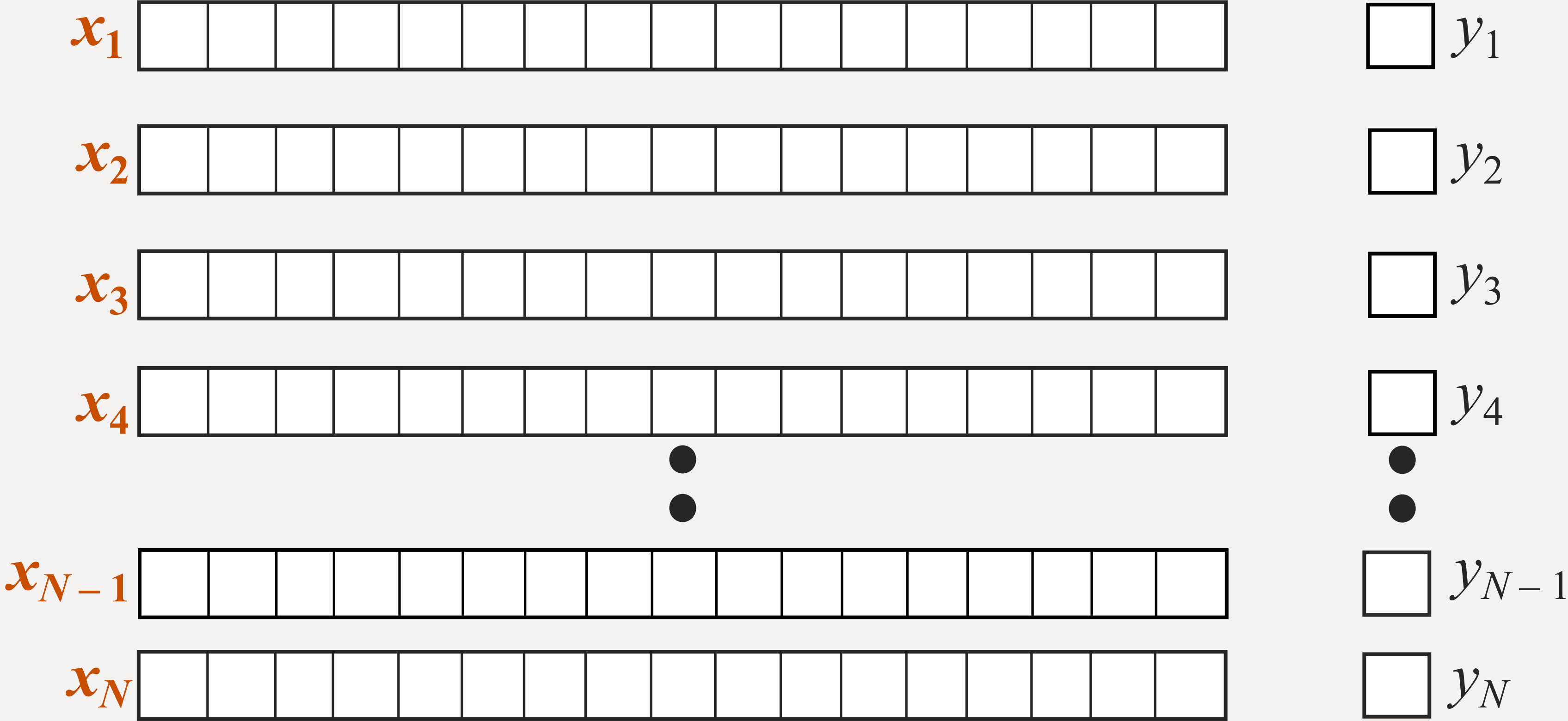


Training Set



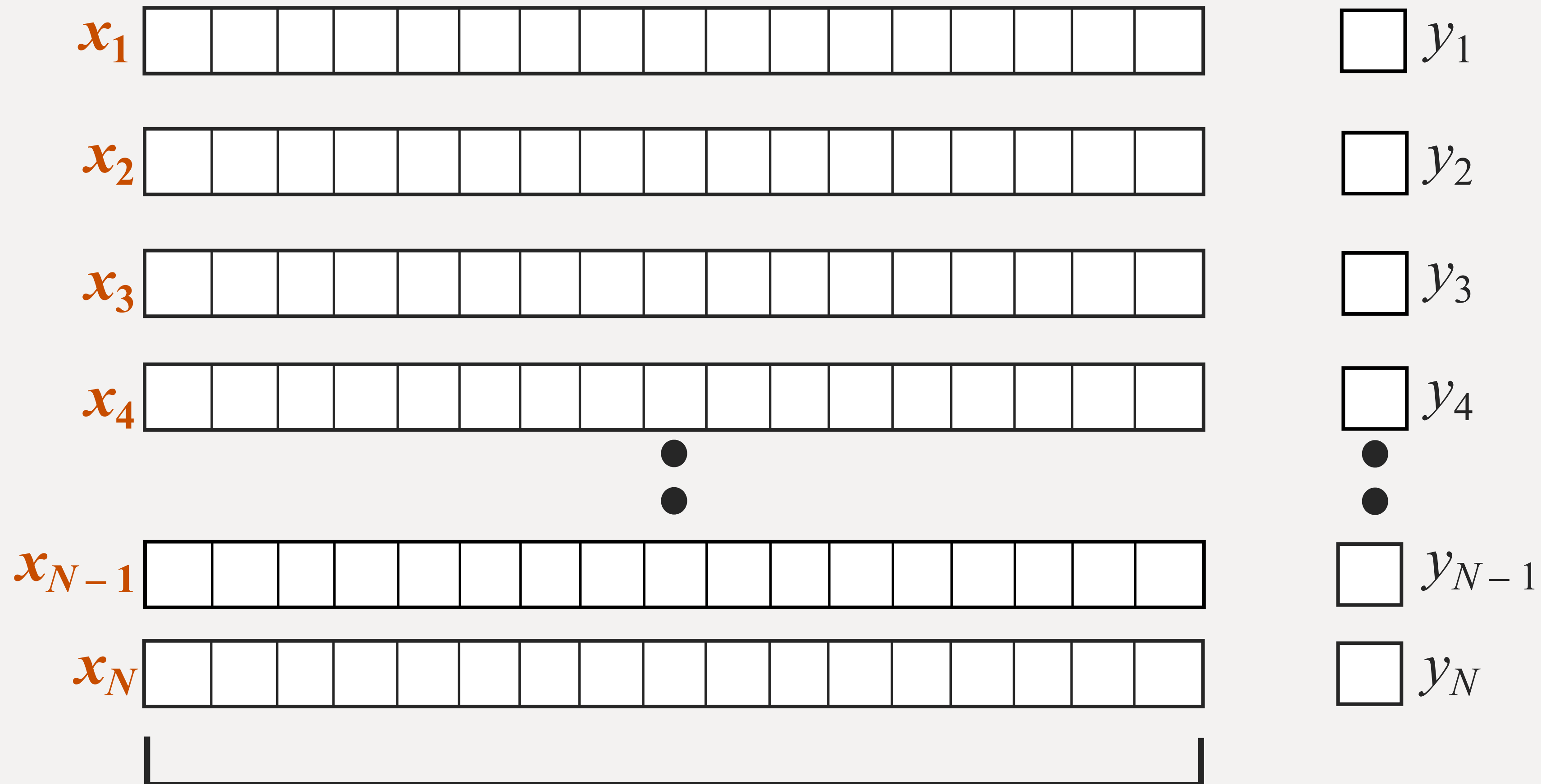
Training Set

$x = \text{data}$



Training Set

$x = \text{data}$



number of times each word appears in document

Training Set

$$x = \text{data}$$

y = outcome

 x_1 [illegible]

y_1

 x_2 [illegible]

 y_2

 x_3 [illegible]

y_3

 x_4 [illegible]

☐ y_4

● ●

• •

 x_{N-1} [illegible]

□ y_{N-1}

 x_N [illegible]

y_N

number of times each word appears in document

Training Set

