Previous notation

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$$\overrightarrow{w} = [\omega, \dots \omega_n] \\
b is still a \\
number \\
1 \omega_b(x) = \omega_v \times 1 \omega_v \times$$

An alternative to gradient descent

- normal equation
 - · only for linear regression
 - · solves for w, b without iterations

uses an advanced linear algebra library to do so It maybe used in machine leaving libraries that implement linear regression

Disadvantages

but for most, gradient descent is better

- · Doesn't generalize to other learning algorithms (like logistical regression, neural networks)
- · Slow when number of features is large (>10,000)