feb 14 2020

$W \rightarrow$ vector

$\boxed{w_1 \mid w_2 \mid \cdots \mid w_D}$

$|W| = |w_1| + |w_2| + \cdots + |w_D|$ l1 norm

$\|W\| = \sqrt{w_1^2 + w_2^2 + \cdots + w_D^2} \rightarrow l_2$ norm

$\|W\|_p = \left(w_1^p + \cdots + w_D^p\right)^{1/p} \rightarrow l_p$ norm