W L2 Noim

NOIM: Specific choice of d() function.

L2 Norm = fancy name for Eucliden distance

[we've seen this before - regression]

$$d(\vec{x}, \vec{y}) = \sqrt{\sum_{i=1}^{m} (x_i - y_i)^2} = ||\vec{x} - \vec{y}||_2$$

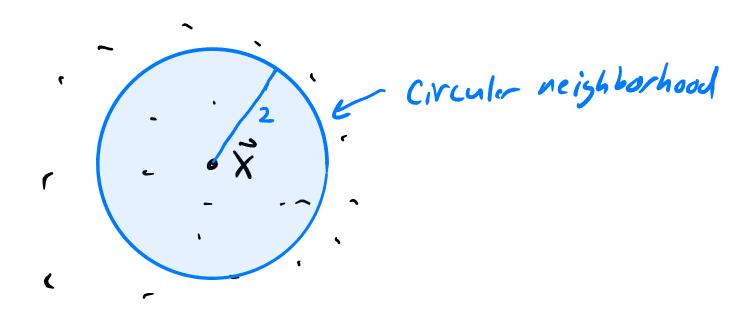
"as the crow flies distace"

* L^2 Norm Clustving: Say we consider Senples

Within a redies of

2 from X in the

Sene clustras X:



Aduateses: Intuitive geomety

IL' NOIM

"elle one norm"

absolute velve $d(\vec{x}, \vec{y}) = \sum_{i=1}^{m} |x_i - y_i| = |\vec{x} - \vec{y}|,$

Often called City block distance or Men hetten distance:

L' dist = [] +[]

E like welking
in a city

Con 4 fly like a crow in the city!

" L' Norm Clustuing: Say we considu semples
Within a redius of

2 from X in the

Sene clustras X: