# PAC 3 – Design and implementation

Functions:

* Get\_neighbors() -> euclidean distance default
* Knn() -> list of k nearest neigbors
* Predict\_position() -> predicted coordinates of previous knn
* Calculate\_error() -> euclidean distance of previous predicted positions and actual positions

Distance metrics comparison. Errors encountered:

Texto

Descripción generada automáticamente

Solutions:

* Abs value of rss
* Increment rss by constant value (100)
* MinMax normalization:
  + First attempt: minmax of every RSS -> incorrect because scale is lost
  + Second attempt: minmax of trnrss and tstrss -> incorrect because scale is lost again (but less than before)
  + Third attempt:
    - Minmax of trnrss and tstrss and set to 0 or 1 if tstrss is smaller or bigger than 0 or 1.
    - Minmax of joint trnrss and tstrss.
* Add constant (1e-7) to P and Q before division and log (or always?).