## **The complete learning algorithm**

How does the algorithm look like now?

1. The algorithm
   1. **Initialise:** w, b randomly
   2. **Iterate over data**
      1. Compute ŷ
      2. Compute L(w,b)
      3. wt+1 = wt - η𝚫wt
      4. bt+1 = bt + η𝚫bt
      5. Pytorch/Tensorflow have functions to compute
   3. **Till satisfied**
      1. Number of epochs is reached ( ie 1000 passes/epochs)
      2. Continue till Loss < ε (some defined value)
      3. Continue till Loss(w,b)t+1 ≈ Loss(w,b)t