## **Computing Partial Derivatives With Cross Entropy Loss**

How do we compute 𝚫w and 𝚫b

1. Loss Function
2. Consider 𝚫w for 1 training example

   2. The first part:
   3. The second part:
      1. This is the exact same as from the Squared Error Loss
   4. The final derivative is the first part multiplied with the second part
3. We then plug the values of 𝚫w and 𝚫b into the learning algorithm to optimise the parameters w and b.