## **Partial Derivatives with respect to a**

### **Part 2**

How do we compute partial derivatives

1. Let us continue calculating the partial derivative of L w.r.t w212
2. Solving the equation sequentially
   1. Let’s look at the second partial derivative
      1. Here, , this is the softmax applied on a21
      2. To make it easier to compute, multiply both numerator and denominator by e-a21
      3. Rewriting the terms