

$$D_2(i) = \frac{1}{m} \frac{e^{-\alpha_1 y_i} h_1(x_i)}{z_1}$$

$$D_{\lambda+1}(i) = \frac{1}{m} \cdot \frac{e^{-\alpha_1 y_i} h_1(x_i)}{z_1} \cdot \frac{e^{-\alpha_2 y_i} h_2(x_i)}{z_2}$$

...

$$D_{\lambda+1}(i) = \frac{1}{m \cdot z_1 \cdots z_\lambda} \cdot e^{\sum_{j=1}^{\lambda} \alpha_j y_i} h_j(x_i)$$

$$z_1 \cdots z_\lambda D_{\lambda+1}(i) = \frac{1}{m} e^{\sum_{j=1}^{\lambda} \alpha_j y_i} h_j(x_i)$$

$$z_1 \cdots z_\lambda \sum_i D_{\lambda+1}(i) = \frac{1}{m} \sum_i e^{\sum_{j=1}^{\lambda} \alpha_j y_i} h_j(x_i)$$

$$z_1 \cdots z_\lambda = \frac{1}{m} \sum_i e^{-y_i} f(x_i)$$

$$D_2(i) = \frac{D_1(i) e^{-\alpha_1 y_i h_1(x_i)}}{Z_1}$$

$$\frac{R}{m Z_1}$$

$$Z_{**} = \sum_C D_A(i) e^{-\alpha_A y_i h_A(x_i)} + \sum_W D_A(i) e^{-\alpha_A y_i h_A(x_i)}$$

$$= e^{-\alpha_A} \underbrace{\sum_C D_A(i)}_{(1 - \epsilon_A)} + e^{+\alpha_A} \underbrace{\sum_W D_A(i)}_{\epsilon_A}$$