Calculul v-ui grad pt f logistică cca datelor de la pr 4.2

... Ciuperca

$$\nabla_w J(w) = -\frac{1}{m} \sum \left[1 - \sigma\left(y^{(i)} w^{(i)} \cdot x^{(i)}\right)\right] y^{(i)} x^{(i)}$$

$$= -\frac{1}{8} \left[\left(1 - \sigma(w_1 + w_0)\right)(1,0,0,0)^T + \quad // A \right.$$

$$+ \left(1 - \sigma(w_1 + w_3 + w_0)\right)(1,0,1,0)^T + \quad // B$$

$$+ \left(1 - \sigma(w_2 + w_4 + w_0)\right)(0,1,0,1)^T + \quad // C$$

$$- \left(1 - \sigma(w_4 + w_0)\right)(0,0,0,1)^T \quad // D$$

$$- \left(1 - \sigma(w_1 + w_2 + w_3 + w_0)\right)(1,1,1,0)^T \quad // E$$

$$- \left(1 - \sigma(w_1 + w_3 + w_4 + w_0)\right)(1,0,1,1)^T \quad // F$$

$$- \left(1 - \sigma(w_1 + w_4 + w_0)\right)(1,0,0,1)^T \quad // G$$

$$- \left(1 - \sigma(w_2 + w_0)\right)(0,1,0,0)^T \quad // H$$