Lecture 25: Deep neural networks continued

Professor Ilias Bilionis

Loss functions for classification networks



Training a binary classifier

Objected did :
$$x_{1:n} = (x_1, ..., x_n)$$
 $y_{1:n} = (y_1, ..., y_n)$, $y_i \in \{0,1\}$ and $x_i \in \{0,$

Training a multi-class classifier network

single

Discrete total in
$$x_{iin} = (x_1, ..., x_n)$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_{-1}]$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_{-1}]$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_{-1}]$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_{-1}]$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_{-1}]$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_{-1}]$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_{-1}]$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., x_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., y_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., y_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., y_n]_i$$

$$y_{iin} = (y_1, ..., y_n)_i y_i \in [0, 1, ..., y_n]_i$$

$$y_{iin} = ($$