NPTEL ONLINE CERTIFICATION COURSES

Course Name: Deep Learning
Faculty Name: Prof. P. K. Biswas
Department : E & ECE, IIT Kharagpur

Topic
Lecture 17: Nonlinearity
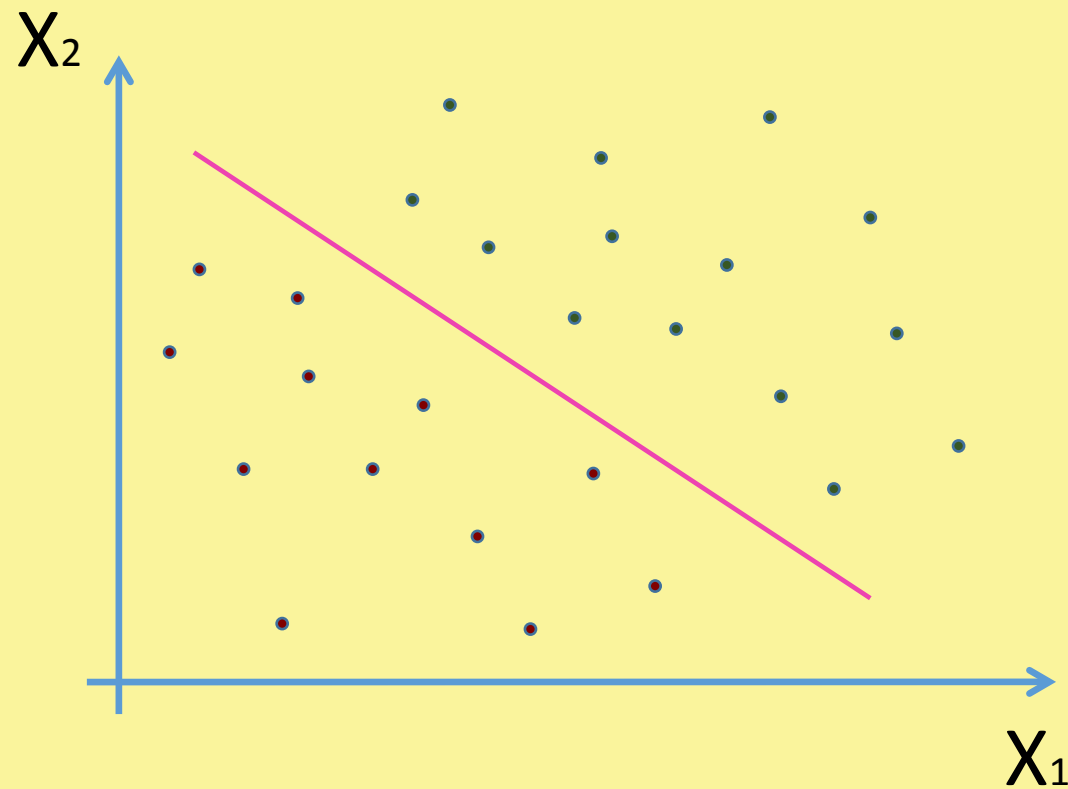
CONCEPTS COVERED

Concepts Covered:

- ❑ Optimization in ML

- ❑ Linear and Logistic Regression

- ❑ Softmax classifier
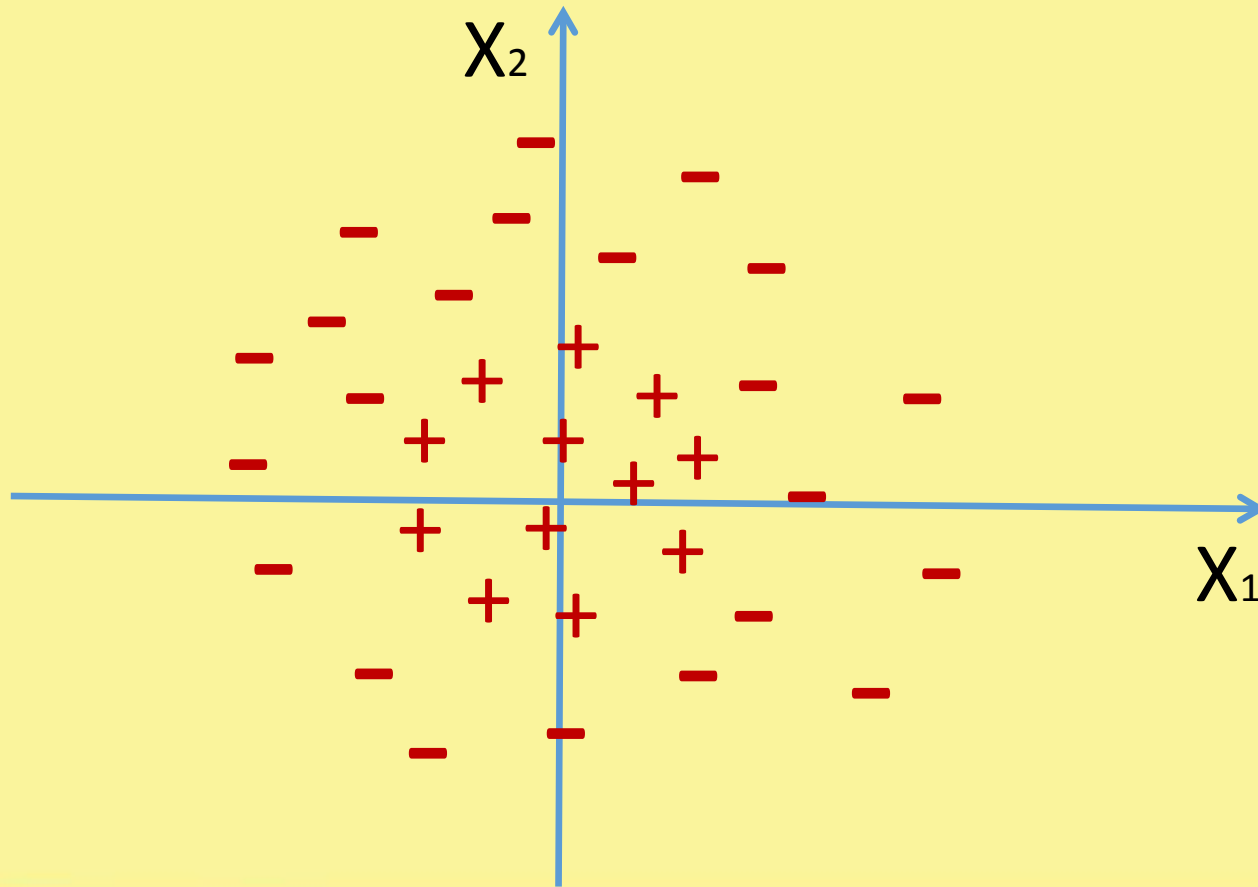
- ❑ Nonlinearity

- ❑ Neural Network

Nonlinearity
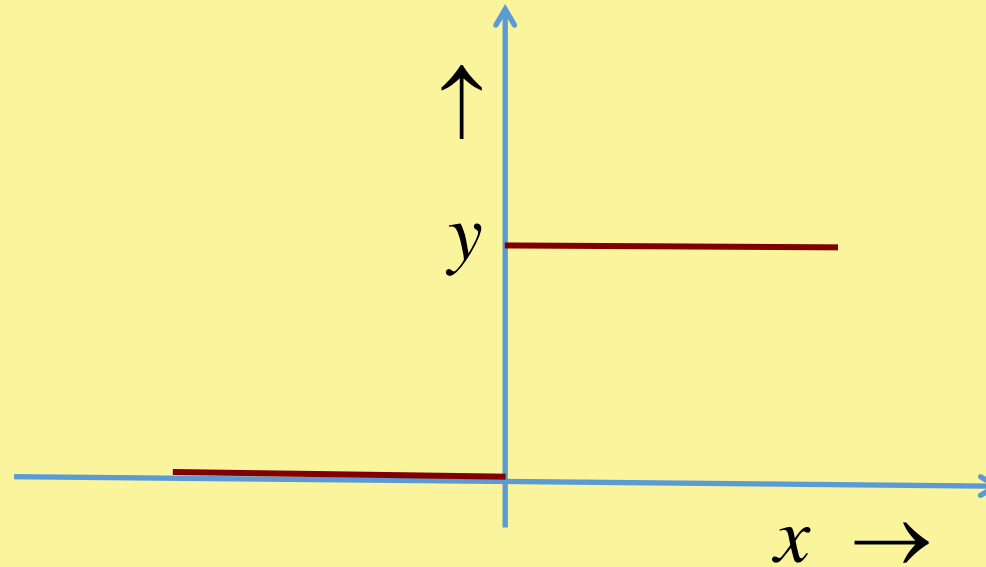
Linear Seperability
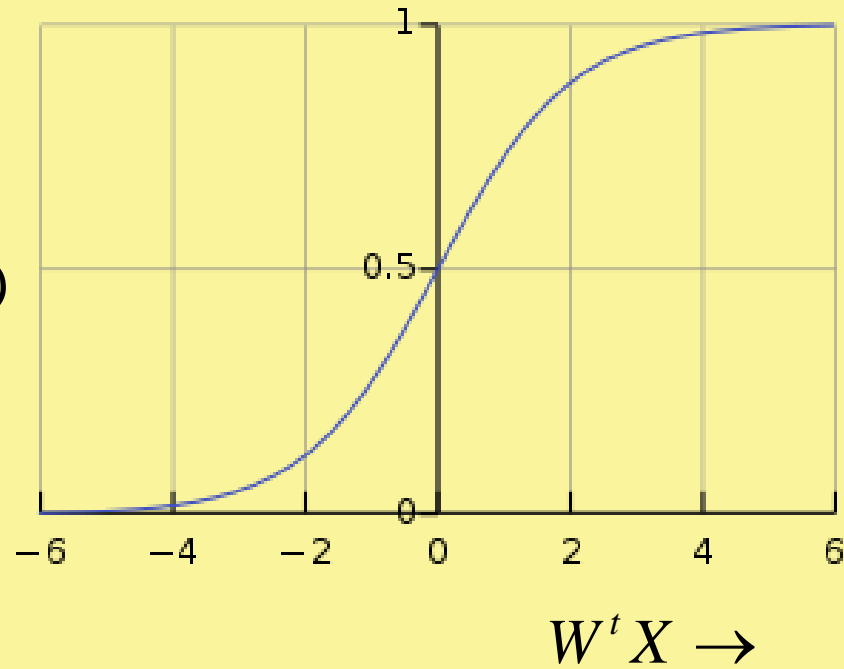
Nonlinearity

Nonlinearity

Threshold

$$y = \begin{cases} 1 & x \geq 0 \\ 0 & x < 0 \end{cases}$$

Logistic Regression

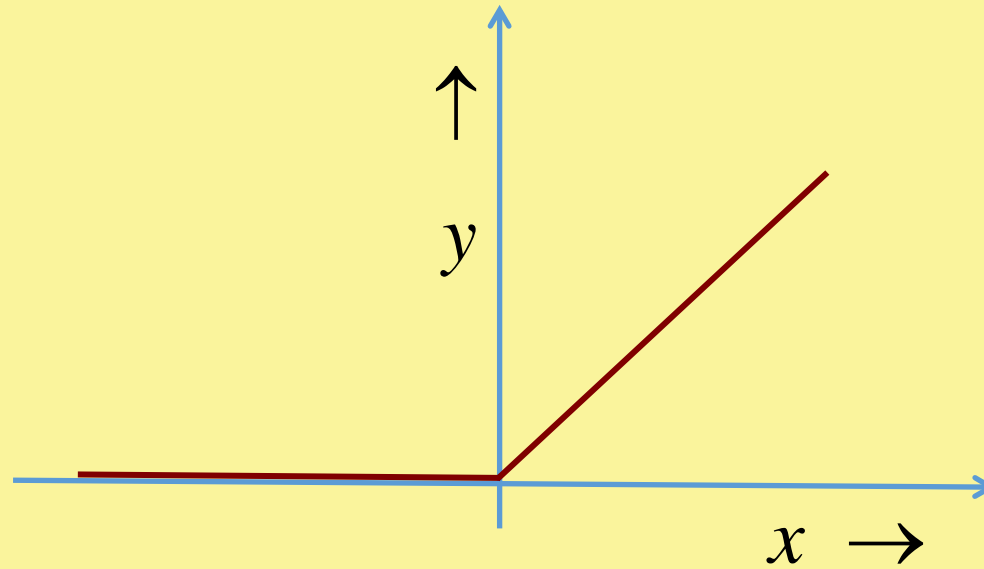$$\sigma(W^t X) = \frac{1}{1 + e^{-W^t X}} \Rightarrow$$

$$\uparrow$$
$$\sigma(W^t X)$$

$$W^t X \rightarrow$$

Nonlinearity

ReLU :   Rectified Linear Unit

$$y = \max(0, x) \implies$$

NPTEL ONLINE CERTIFICATION COURSES

Thank you