

$$\left. \begin{matrix} \{ \} \\ \{ \} \\ \{ \} \end{matrix} \right\} V = \{v, \ldots, v_n\}$$

$$\begin{matrix} \subseteq \\ is\,subset\,of\,if\,every\,element\,of\,is\,also\,a\,element\,of.\,http\,:\,/mathworld.wolfram.com/Subset.html\,Path\subseteq \\ E \end{matrix}$$

$$\begin{matrix} \subset \\ is\,a\,proper\,subset\,of\,if\,\subseteq \\ B \\ B \\ A \end{matrix}$$

$$\begin{matrix} \times\,Product\,of\,two\,sets\,\times\,B \\ A \\ B\,A\,\overline{\overline{B}}= \\ a,b,c \\ b,c \\ A\times \\ B= \\ \{(a,b),(a,c),(b,b),(b,c)\} \\ E\subseteq \\ V\times \\ V \end{matrix}$$

$$\begin{matrix} \in \\ Indicates\,that\,an\,object\,is\,element\,of\,a\,set.\,http\,:\,/mathworld.wolfram.com/Element.html\,Vertex\,that'\,selement\,of\,the\,set\,of\, \\ F \end{matrix}$$

$$\begin{matrix} \notin \\ Indicates\,that\,an\,object\,is\,NOT\,element\,of\,a\,set.\,http\,:\,/mathworld.wolfram.com/Element.html\,Vertex\,is\,not\,yet\,in\,the\,expl \\ \end{matrix}$$

$$\begin{array}{l} 3 \\ information \\ Entropy \end{array}$$

$$Av_i$$

$$p,n$$

$$p,nA$$

$$A\,vp_i,n_i,i=1,\ldots,v$$

$$\cdot$$

$$\begin{array}{l} +1-1 \\ 1 \\ (\bar{x}_i,y_i),i=1,\ldots,n\bar{x}_i\in^d y_i\in\{1,1\}f(\bar{x}) \end{array}$$

$$y_i f(\bar{x}_i) > 0$$

$$\begin{array}{l} \bar{w} \in^d \\ \bar{w} \\ b \in \bar{w} \\ \bar{w} 1 \\ \bar{w}^T \bar{w} \bar{w}^T \bar{x} \\ \bar{w}^T \bar{x}_i + b) \{ \geq 1 for y_i = +1 \\ \leq -1 for y_i = 1. \\ \frac{2}{\|\bar{w}\|} \\ \|\bar{w}\| \bar{w} \\ \bar{w}^T \bar{x}_i + b) \{ \geq 1 for y_i = +1 \\ \leq -1 for y_i = 1. \\ \frac{2}{\|\bar{w}\|} \\ \|\bar{w}\| \bar{w} \\ max_{\bar{s}} ep_h \text{hyperplane}_w \text{with}_m \text{arginSource} \text{http: //wikipedia.org} \\ \frac{1}{2} \bar{w}^T w \\ y_i (\bar{w}^T \bar{x}_i + b) \geq 1 (\bar{x}_i, y_i) \\ light \\ \frac{4}{x} \end{array}$$