

<b>maschine learning</b> Algorithm learns class of tasks, measured by loss function, from experience.	$x \in \Delta^*$ .	<b>Hypothesis</b> of A: potential result of A	data	$\forall i : \theta_i \in \{m_i, \star\}$ else 0
<b>supervised learning</b> learn $h : \Delta^* \rightarrow \Sigma^*, h = t$ ; example: $(x, y) \in \Delta^* \times \Sigma^*, t(x) = y$ .	<b>reinforcement learning</b> learn strategy based on feedback from environment.	<b>Hypothesis space</b> $\mathcal{H}_A$ of A: set of all hypotheses	<b>Conjunctive Clause</b> $\theta = (\theta_1, \dots, \theta_k), \theta_i \in M_i \cup \{\star, \perp\}$	<b>loss functions (and derivatives)</b>
<b>unsupervised learning</b> learn $h : \Delta^* \rightarrow \Sigma^*, \ker(h) = \ker(t)$ ; example:		<b>h fits D</b> if $h(x_i) = y_i$ for all $(x_i, y_i) \in D$	- $\theta_\perp = (\perp, \dots, \perp)$ most specific	<ul style="list-style-type: none"> <li><math>l(h, D) = \sum_{i=1}^n (1 - \delta_{y_i, h(x_i)})</math></li> <li><math>\delta_{ij} = 1</math> if <math>i = j, 0</math> otherwise.</li> <li>asd</li> </ul>
	<b>1 Supervised Learning</b>	<b>Version space</b> $\mathcal{V}_A(D)$ of A: all hypotheses that fit D	- $\theta_\star = (\star, \dots, \star)$ most general	
		<b>Inductive bias</b> of A: set of assumptions that A uses to predict outputs of unseen	- $supp(h_{\theta_\perp}) = \emptyset, supp(h_{\theta_\star}) = \mathcal{M}$	
			- $h_{\theta_\perp} = h_{(\theta_1, \dots, \perp, \dots, \theta_k) = \dots}$	
			induced hypothesis $h_\theta(m_1, \dots, m_k) = 1$ if	