

DSL<sub>i+1</sub>

Solutions

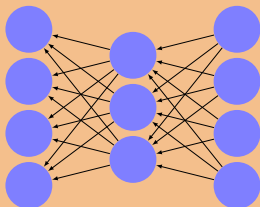
- P<sub>i<sub>1</sub></sub> for data<sub>n<sub>1</sub></sub>
- P<sub>i<sub>2</sub></sub> for data<sub>n<sub>2</sub></sub>
- P<sub>i<sub>3</sub></sub> for data<sub>n<sub>3</sub></sub>
- P<sub>i<sub>4</sub></sub> for data<sub>n<sub>4</sub></sub>

...

Programs  
(functions)

Data  
(io pairs)

Training Recognition Model:  $\min_Q \text{KL}(\mathbb{P}[p|x, \mathcal{D}] || Q(p|x))$



$$\frac{\mathbb{P}[x_n, p_n | \mathcal{D}]}{\sum_{(x_n, p'_n)} \mathbb{P}[x_n, p'_n | \mathcal{D}]} \log Q(p_n | x_n)$$