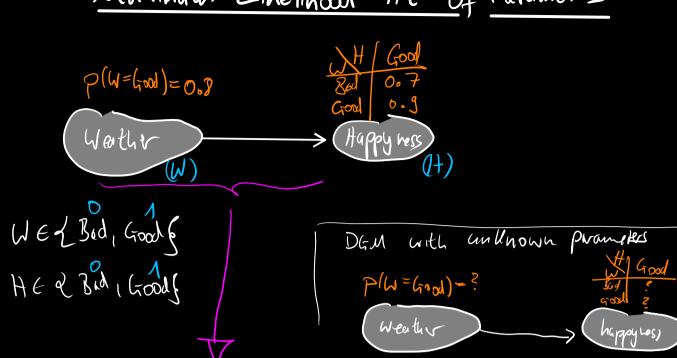
Directed Graphical Models Maximum Likelihood Fit of Parameters



we have data from it but not the proamples

ly. (0,1), (1,0),...

$$\begin{array}{ll} \text{Likelihood:} & \mathcal{Z}(D) = \overline{11} \ P(U=U^{ci}), H=h^{ci}) \end{array} \qquad \begin{array}{l} \text{Dim factorites} \\ \text{Che signist} \end{array}$$

$$= \frac{1}{11} P(U-U^{ci}) P(H=h^{ci}) \left(U=U^{ci} \right)$$

$$= \frac{1}{11} P(U-U^{ci}) P(H=h^{ci}) \left(U=U^{ci} \right)$$

$$= \frac{1}{11} P(U-U^{ci}) P(U-U^{ci}) P(U-U^{ci}) \end{array}$$

CD;
$$\partial_{\omega}$$
, ∂_{+}) = log (L (D; ∂_{ω} , ∂_{+})
Whow J = $\sum_{i=0}^{N-1} l_{ij} Sen(\omega^{ci})$; ∂_{ω}) + $log Sen(h^{ci})$; $\partial_{+}(\omega^{cij})$)

Maximum likelbod