

10-601B

11/30/16

$$D = \{(x^{(i)}, y^{(i)})\}_{i=1}^N$$

$$D = \{(x^{(i)}, y^{(i)}, w^{(i)})\}_{i=1}^N$$

$$J(\theta) = \sum_{i=1}^N \frac{w^{(i)}}{N} \log p(x^{(i)}, y^{(i)})$$

$$p(z|\vec{x}) \propto \underbrace{p(\vec{x}|z)}_{\text{likelihood}} \underbrace{p(z)}_{\text{prior}}$$

$$p(\theta|\vec{x}) \propto p(\vec{x}|\theta) p(\theta)$$



